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Postsecondary educational credit recommendations for formal courses offered by the Coast Guard, the Marine Corps, the Navy, and the Department of Defense are provided in this third of a three-volume set. (Other volumes cover courses offered by the Army and by the Air Force. See note.) Also included are credit recommendations for Navy general rates and ratings (occupational categories in the Navy Enlisted Rating Structure). Following sections on the use of the guide, formal course and Navy rating exhibits are listed. Each course exhibit contains such information as present and former course titles, course number, location, length, objectives, description of instruction and subject areas covered. Each Navy rating exhibit includes such information as official Navy title of the general rating, description of skills, knowledge and competencies for that rating, and recommendation for educational credit. Credit recommendations expressed in semester hours are given in four categories: vocational certificate, lower division baccalaureate/associate degree, upper division baccalaureate and graduate degree. The appendixes contain the following information: historical development of the Guide, which courses can be found in the Guide; description of the evaluation system for credit recommendations; and definitions and guidelines on the categories of education credit, the semester hour standard; background on Navy enlisted occupational fields and ratings, Naval occupational standards, and Naval standards; and Navy occupational title index.

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New Features

The 1978 edition of the Guide is different in many ways. The bulky, single-volume Guide is now a three-volume set. And the books are taller and wider than previous editions. The type is larger, too, and the text columns are all a little wider. All these changes were designed to make the Guide easier to read and easier to handle.

There are many substantive changes as well. Check the contents page. The introductory material has been completely revised. The extensive—some said difficult—treatment on how to use the Guide has been replaced by easy-to-follow, step-by-step instructions on how to find and use the exhibits and recommendations. And the new Questions and Answers section will answer most if not all your questions about using the Guide and awarding credit.

And that's not all. The indexes have been improved in many subtle ways, all designed to help you find the correct exhibit, and find it quickly.

But don't leap to the indexes yet. Whether you're a new reader or an old hand at using the Guide, start with the step-by-step instructions. You may be pleasantly surprised.
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Foreword

For more than thirty years, the *Guide to the Evaluation of Educational Experiences in the Armed Services* has been the standard reference work for recognizing learning acquired in military life. ACE has worked cooperatively with the Department of Defense and the armed services in assisting hundreds of thousands of servicemen and women achieve recognition for their learning. The long-term success of the *Guide* evaluation system for military training has resulted in it serving as a model for the evaluation of programs offered by other noncollegiate organizations, including business, industry, government agencies, voluntary and professional associations, and labor unions. Collectively, these efforts are resulting in students combining extra-institutional learning opportunities with study at postsecondary institutions to achieve degree-related educational objectives. Not only is this sound educational practice, it is also an efficient use of educational resources and an incentive for the persons affected to undertake further study.

Special recognition must be paid to hundreds of individuals who have served as evaluators and the many educational institutions, professional and disciplinary associations, and the apprenticeship training community for their wholehearted cooperation in this endeavor. Without their support and assistance, the *Guide* would not have been possible. We are greatly indebted to them.

Once again, we are pleased to commend this work to you in your continuing work with servicemen and women and veterans.

J. W. PELTASON
President
American Council on Education
How to Find and Use Course Exhibits

This volume contains recommendations for formal courses offered by the Coast Guard, the Marine Corps, the Navy, and the Department of Defense.

The instructions that follow provide a step-by-step procedure for finding and using the exhibits and recommendations. Readers unfamiliar with the ACE evaluation procedures should read Appendix A. Additional information in using the Guide and awarding credit is provided in the Questions and Answers section.

Step 1

Have the applicant complete a "Request for Course Recommendation" form.

A "Request for Course Recommendation" form appears at the back of this volume. It may be reproduced and should be filled out by the applicant, using the information provided on official and personal records, as well as the applicant's own knowledge of the service course. Applicants should not refer to the Guide while completing the form.

(See questions 4 through 8 in Questions and Answers.)

Step 2

Verify course completion from military records.

The following military records are normally used to verify successful completion of course requirements:

1. DD Form 295, "Application for the Evaluation of Educational Experience During Military Service"—available to active-duty service personnel from military education officers. (Form must be certified by an authorized officer in order to be official.)

2. DD Form 214, "Armed Forces of the United States—Report of Transfer or Discharge"—available to veterans, together with other in-service training records, from the General Services Administration, National Personnel Records Center (Military Personnel Records), 9200 Page Boulevard; St. Louis, Missouri 63132.

3. Course Completion Certificates—may be used to complement other records or when service courses are not recorded on official records.

(See questions 1, 3, and 10 in Questions and Answers.)

The following steps refer to a "course exhibit." See sample course exhibit, page ix.

Step 3

Find the course exhibit by identifying the OEC ID Number in the Course Number Index or the Keyword Index.

A. Course Number Index. All available military course numbers are listed in the Course Number Index in alphanumeric sequence. If the applicant's military course number cannot be located in the Course Number Index, search for the course title in the Keyword Index.

B. Keyword Index. Identify all possible keywords within a formal course title. For example, the keywords in the title, "Ground Radio Communications Equipment Technician," are Radio, Communications, and Equipment. Find one or all of those keywords in the Keyword Index and search the listing under the keyword for the course title. If the title cannot be found under one keyword, search all other possible keywords.

C. Identify OEC ID Number. When the title or military course number has been located, note the corresponding OEC ID Number. This number refers to the course exhibit's location in the Guide. The two-letter prefix refers to the section of the Course Exhibits chapter, i.e., CG=Coast Guard section; DD=Department of Defense section; MC=Marine Corps section; and NV=Navy section. Within each section, OEC ID Numbers are presented in numeric sequence.

(See question 2 in Questions and Answers.)

Step 4

Match the course identifying information with the corresponding data in the course exhibit.

Course identifying information includes the official military title, military course number, length of
HOW TO FIND AND USE COURSE EXHIBITS

Step 5

Read the course objectives and description.

Consideration should be given not only to the amount of credit and to the subject area, but also to the course objectives and description which are part of the course exhibit. These portions of the exhibit outline the course content and scope and also provide essential information about the nature of the course.

(See question 9 in Questions and Answers.)

Step 6

Award credit, as appropriate.

Users are free to modify the credit recommendations in accordance with institutional policy and the educational goals of each individual applicant.

(See questions 11 and 19-25 in Questions and Answers.)

Step 7

When assistance is required, contact the Office on Educational Credit.

Whenever problems arise in Steps 1 through 6, and assistance is desired, contact the OEC Information Service at:

Office on Educational Credit
American Council on Education
One Dupont Circle
Washington, DC 20036
ATTN: Military Evaluations
(202) 833-4685
Sample Course Exhibit

ID Number. A number assigned by DEC to identify each course.

Military Course Number. The number assigned to the course by the military, listed by version.

Length. The length of the course in weeks, with contact hours in parentheses, by version.

Exhibit Dates. The start and end dates, by month and year, by version. When course was first evaluated and when, if applicable, it was eliminated. "Present" denotes publication cutoff for this edition of the Guide (1/78).

Credit Recommendation. By version. Given in four categories: vocational certificate; lower-division baccalaureate/associate degree; upper-division baccalaureate; graduate degree. Expressed in semester hours.

Course Version Numbers and Titles. Version 1 is the most recent. If course has only one version, version number is omitted throughout exhibit.

Alternate Titles. In parentheses under the more recent title.

Location. By version. The service school, military installation, state.

Objectives. The purpose for which the course was designed; applies to all versions.

Instruction. Description of instruction, including teaching methods, facilities, equipment, major subject areas covered. Normally applies to all course versions; occasionally a note may be added regarding a specific version.

Evaluation Dates. Date when the credit recommendation was established, month and year, in parentheses following each recommendation.

Important. The appropriate course version can be found by using the course title and number, its length, exhibit dates, and location.

NV-0701-0006

1. Dental Technician, Basic, Class A
2. Class A General Dental Technician School
   (Dental Technician, General, Class A)


Location: Version 1: Dental Technician's School, San Diego, CA. Version 2: National Naval Medical Center, Bethesda, MD.


Objectives: To train enlisted personnel to assist dental officers and to qualify for the dental technician rating.

Instruction: Lectures and practical exercises in basic sciences, preventive dentistry, casualty care, dental administration, radiography, and dental assisting.

Credit Recommendation: Version 1: In the vocational certificate category, 4 semester hours in dental assisting on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in dental assisting on the basis of institutional examination (2/74). Version 2: In the vocational certificate category, 5 semester hours in dental assisting on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in dental assisting on the basis of institutional examination (2/74).
How to Find and Use Navy General Rate and Rating Exhibits

This volume contains exhibits for Navy general rates and ratings evaluated through January 1, 1978. The following instructions provide a step-by-step procedure for finding and using general rates and rating exhibits and recommendations. If you are unfamiliar with Navy general rates and ratings—how they are structured and how occupational proficiency is demonstrated—you should read Appendix A. Additional information on general rates and ratings is provided in the Questions and Answers sections.

Step 1
Have the applicant submit official Navy documentation to you.

For enlisted personnel, occupational history is recorded in item 8 of NAVPERS 1070/604, "Navy Occupation/Training and Awards History." (This form is sometimes referred to as Page 4 of the service record by Navy men and women.) Item 8 contains the following relevant information: the general rate or rating from which advanced or changed, the new general rate or rating, and the effective date of the advancement or change.

As an alternative, Navy enlisted persons may submit DD Form 295, "Application for the Evaluation of Educational Experiences During Military Service," when it includes the necessary occupational information. Although the present edition of the form was not designed to document general rate and rating proficiency, it is acceptable when the section, "Major Service Jobs and Billets," includes the following information: (1) the general rate or rating designation, (2) the general rate or rating title, and (3) the date of advancement. (A new edition of the form is being prepared which will provide space for military occupational information.) A person still in active or reserve service may request that DD Form 295 be completed by the education services officer and certified by the personnel officer at the unit to which he or she is assigned.

DD Form 214, "Armed Forces of the United States Report of Transfer or Discharge," is also acceptable for documentation. However, it does not contain the occupational-history, which you may need.

Navy records must be requested by the individual. Records may be obtained as follows:

Active-duty Navy men and women. The Navy unit to which he or she is assigned.

Navy Reservist (Non-drilling) or retired personnel.
The Naval Reserve Personnel Center (Code 41), 4400 Dauphine Street, New Orleans, Louisiana 70149.

Navy veteran. The original of the "Navy Occupation/Training and Awards History" form and the DD Form 214 given to the veteran when he or she is discharged. If the veteran does not have them, he or she may request a duplicate from General Services Administration, National Personnel Records Center (Military Personnel Records), 9700 Page Boulevard, St. Louis, Missouri 63132. The veteran may request service records by submitting U.S. Government Standard Form 180, which may be obtained from a state's veterans affairs office, the Veterans Administration, or the National Personnel Records Center.

Step 2
Referring to military records, verify each general rate and rating the person has successfully held.

A. Eligibility for the recommendation is easily determined. Advancement means that the person is automatically eligible for the general rate or rating recommendation; that is, to be advanced, the person had to demonstrate occupational proficiency by meeting all the requirements for advancement, including passing written and performance tests. (See questions 3-15 in Questions and Answers.)

B. Find the information necessary for locating the correct exhibit, the general rate and rating designations and the date of advancement to each. (See question 16 in Questions and Answers.)

Step 3
Find the appropriate general rate or rating exhibit in the Guide.

The exhibit for a given general rate or rating can easily be found when the designation is known. Each general rate and rating exhibit is assigned an OEC ID number that has three components. The first component, NER, identifies the exhibit as one that pertains to Navy enlisted general rates and ratings. The second component consists of the general rate or rating designation, e.g., SN, QM, or AME. The third
HOW TO FIND AND USE NAVY GENERAL RATE AND RATING EXHIBITS

HOW TO FIND AND USE NAVY GENERAL RATE AND RATING EXHIBITS

Step 4

Read the entire general rate or rating exhibit.

In order to apply a given recommendation to the student's program of study at your institution, you must first read the entire exhibit. Each item in the exhibit has been prepared to help you identify or interpret the recommendations. (See the sample exhibit.) Two items, career pattern and description, will be particularly helpful to you.

The descriptions, which are similar to learning outcome statements of postsecondary courses and programs of study, will provide you with essential information about the learning required for proficiency in the general rate and rating. Comparing the general rate or rating "Description" with a description of the course, or program of study, that the student will pursue will help you:

- determine how much of the recommended credit applies to the course or program of study at your institution,
- identify additional areas of possible credit,
- resolve duplication of credit problems, when the applicant has applied for credit for more than one military learning experience,
- place the student at the appropriate point in the course sequence or program of study.

Step 5

Award credit, as appropriate.

The general rate and rating recommendations are advisory. They are intended to assist in formally recognizing the learning of Navy men and women and veterans and in placing them in postsecondary programs of study, apprenticeship programs, and jobs. The recommendations may be modified.

For example, you may find that the recommendations are too low, too high, or in the wrong subject area for the program of study or apprentice training program the applicant wishes to pursue.

When an applicant has applied for credit for more than one military learning experience, you may find that you will have to reduce the total amount of credit recommended to avoid granting duplicate credit. (See questions 11, 19, and 20 in Questions and Answers.)

You may also wish to increase the recommended credit to account for the learning that the applicant may have acquired in other military or nonmilitary settings. (See questions 21 and 23-25 in Questions and Answers.)

Step 6

When assistance is required, contact the Office on Educational Credit.

OEC operates an information service to assist education officials, apprenticeship and training officials, and employers in evaluating the learning experiences of military personnel. Publication of the Guide is part of that service. However, there are instances when additional assistance is needed.

When requesting an exhibit for a general rate or rating, complete a copy of the "Request for Navy General Rate/Rating Exhibit" form that appears at the back of this volume. Use the form only to request recommendations for general rates and ratings that are listed as "Pending evaluation." When a general rate or rating is not listed in the Guide, it means that OEC has not evaluated it and has no plans to do so.

When assistance in interpretation is needed and it appears that official military records will help OEC staff members in responding to an inquiry, copies should be attached to the letter of inquiry. Do not send original records.

When a general rate or rating exhibit or assistance in interpretation is needed urgently, you may telephone the Office on Educational Credit at (202) 833-4770. (Sorry, no collect calls.) Whether inquiring by letter or telephone, however, you should always
HOW TO FIND AND USE NAVY GENERAL RATE AND RATING EXHIBITS

Inquiries concerning general rate and rating exhibits should be addressed to:

Credit, not the applicant. (See question 8 in Questions and Answers.)

American Council on Education

One Dupont Circle, N.W.
Washington, DC 20036

ATTN: NERIEvaluation Program
Sample Navy Rating Exhibit

NER-SK-001
STOREKEEPER
SK3
SK2
SK1
SKC
SKCM

Exhibit Dates: 6/72-Present.

Occupational Field: 16 (Logistics)

Career Pattern

Description
Summary: Orders, receives, inspects, stores, preserves, packages, ships, and issues materials and cargo; prepares and maintains forms, records, correspondence, reports, and files. SK2: Knows the basic organization and functions of supply departments; is familiar with the purpose and use of major components of automated data processing (ADP) equipment and knows common terms used in ADP; operates office machines; types (at 20 words per minute), routes, and files forms and messages; maintains files, the requisition log, and budget records; prepares supply-related documents; identifies, receives, stores, and issues materials and stock items; prepares items for shipment; prepares shipment documents; inventories stocked material and installed equipment; operates material-handling equipment. SK1: Ability to perform the duties required for SK3, establishes and maintains files; knows types, uses, and purposes of appropriations and funds; reconciles financial listings; prepares budget reports; requisitions repair parts, supplies, forms, and publications; supervises working parties, handling stores, and instruction. SKCM: Able...

Recommendation, SK3
In the vocational certificate category, 2 semester hours in office machines, 1 in material handling, and 1 in general clerical procedures, for a total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in office machines and 1 in general clerical procedures (12/76).

Recommendation, SKCM
In the vocational certificate category, the recommendation is the same as that for SK1. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for SKCS. In the upper-division baccalaureate category, 3 semester hours in supply management and 3 in management problems, and additional credit for a practicum in management and in human relations on the basis of institutional evaluation (12/76).

Date of Evaluation. By month and year. Appears in parentheses following the recommendation for each rate.

Important: Read entire exhibit before awarding educational credit or advanced standing in an apprentice training program.
Questions and Answers

This section is designed to answer questions that may arise about using the Guide and awarding credit.

1

An applicant at my institution has submitted a DD Form 214 that lists abbreviated course titles which I cannot decipher. The form does not contain enough information for me to find the courses in the Guide. What should I do? Military records often provide insufficient information for education officials to properly identify courses. For that reason, OEC has designed the "Request for Course Recommendation" form, which can be used to supplement records. The applicant for credit should be responsible for interpreting the information on his or her records and presenting the data in readable form. You may also use course completion certificates and other training records to verify entries on the DD Forms 214 and 295.

2

When an applicant brings information on a number of courses completed, I can usually find exhibits for only a small percentage of the courses in the Guide. Am I doing something wrong? The course evaluations done by the Office on Educational Credit probably represent about 30 percent of the total number of courses offered by the armed services. The remaining 70 percent cannot be evaluated for one reason or another. In general, courses evaluated and published in the Guide are offered on a full-time basis (a minimum of thirty contact hours of instruction a week) for not less than two weeks' duration; or, if less than two weeks in length, the courses must include a minimum total of sixty contact hours of academic instruction. (Prior to 1973 the minimum length requirement was three weeks or 90 contact hours.) Very few correspondence courses are listed in the Guide because such programs were not evaluated until the mid-1970s. One criterion for reviewing correspondence courses is the establishment of an ongoing proctored end-of-course examination program. Another requirement for evaluation is that a course be formal as defined by the services, i.e., offered to meet servicewide training requirements and published in the formal schools catalog for the service. This requirement generally excludes locally organized and command-level training programs, as well as courses offered on a one-time basis. When in doubt about the availability of any evaluation for any service course, contact the OEC Information Service.

3

I understand many military records were destroyed in a fire at the General Services Administration several years ago. What do I do if the applicant's military records were among those destroyed? Many records were reclaimed or reconstructed and are now available. In addition, the applicant's copies of certificates may be used in lieu of records destroyed in the GSA fire.

4

May I submit a Request for Course Recommendation form that the student has filled out with information from the Guide? A form filled out by a student who copies information from the Guide cannot be used by the OEC Information Service staff for identification purposes because that information only duplicates data already published. One of the purposes of the Request for Course Recommendation form is to secure information about a course from the student, ideally through official records, but also from his or her personal knowledge or memory of the course. With this first-hand information, you may find the correct course exhibit in the Guide. If you cannot find it, you may send the request form to the OEC Information Service. The OEC staff can then use this additional information to search its extensive files for matching information. When a student attempts to identify a course taken years ago by extracting current titles and/or course numbers from the Guide, he or she may in fact be identifying a similar course but not the one he or she may have taken.

5

Who should send in the Request for Course Recommendation form? The form should be completed by the applicant and authorized by you, the institution official. Credit recommendations will be forwarded to your institution only when you authorize us to do so. While we do provide credit recommendations to applicants upon receipt of their requests, we encourage them to apply through their schools.
6
Why is so much information needed on the Request for Course Recommendation form? You cannot be sure that you have identified the correct exhibit in the Guide unless all the information on the form matches the corresponding items in the course exhibit. The course title, course number, name and location of the service school, and length of the course shown on the form should be identical to the information in the exhibit. In addition, the dates of attendance should fall within the exhibit dates.

A complete and accurate form will also help the OEC Information Service research the course.

7
What do I do when the information on the Request for Course Recommendation form doesn't exactly match the information in the course exhibit? Send an authorized form to the OEC Information Service. Send copies of military records if you think they'll provide additional information. If OEC cannot identify the course and supply a credit recommendation, you may still grant credit to the applicant by conducting your own assessment of the applicant's learning. (See question 24 for information about assessment techniques.)

8
How long does it take to receive a response if I submit a properly completed request form? About three weeks for most requests, longer for those requiring extensive research. Every effort will be made to respond as quickly as possible. If you wish, you may call in requests, but if research is involved, OEC will have to send you a written response.

9
How can I get additional information about the courses in the Guide? Sometimes the descriptive material in the exhibit is not detailed enough for me to make a decision about granting credit. What do I do then? With the exception of a few computer-taught or classified courses, OEC has on file the programs of instruction for all courses listed in the Guide. When necessary, OEC can provide the topic outline from the military syllabus, and in those instances where an entire program of instruction is needed, arrangements can be made to photocopy the entire syllabus.

10
What are USAFI and DANTES? Can I grant credit for the courses and tests listed on an applicant's USAFI or DANTES military test reports? USAFI was the United States Armed Forces Institute, which offered an extensive educational program to active-duty personnel. USAFI correspondence, seminar, and self-study courses, end-of-course tests, and Subject Standardized Tests (SSTs) were made available to service personnel worldwide until 1973, when USAFI was disestablished. Subsequently, the Defense Activity for Non-Traditional Education Support (DANTES) was established in 1974, and that agency continued the development and administration of Subject Standardized Tests and other educational services. OEC continues to recommend credit for USAFI offerings and DANTES SSTs.

In verifying completion of USAFI or DANTES courses or tests, do not accept the military test report as official. That report is given to all service personnel who have taken a course or test. To obtain official USAFI or DANTES records, refer to the addresses provided in Appendix A under “Other Recommendations.”

11
What is the significance of the date which appears after each credit recommendation? That date is called the “evaluation date” and represents the month and year the credit recommendation was established. Each time a course or general rate or rating is evaluated, a date is provided so that you know when the course or general rate or rating was last considered in terms of a credit equivalency. The date tells you how recently a recommendation was established so that you can judge the currency of the credit recommended. This information is particularly useful in subject areas where “state of the art” is important in determining the applicability of credit. You can also use the evaluation date when your institution has established a “statute of limitations” for acceptance of transfer credit.

12
An applicant completed a course in 1973, but the Guide exhibit dates are 5/74 to present. Should I grant credit based on the Guide? The exhibit dates shown in the Guide indicate the time period for which OEC has information on the course. The course may have been offered for several years prior to the exhibit “start” date, but since the service branch did not submit information on the course during that time period, OEC is not able to backdate the exhibit to cover it. If you can be reasonably sure, from other information provided by the applicant (length, course content description), that his or her course was the same or similar to the course listed in the Guide, then you can grant credit based on the Guide recommendation. If
the applicant's course was a number of weeks longer or shorter than the one covered in the Guide exhibit, you may be able to grant credit based on a compari-
son of the applicant's information with the descriptive information in the Guide. The Office on Educational Credit encourages you to conduct your own assessment of courses for which no credit recommendation is available. (See question 24 for information about assessment techniques; for information on Navy rating exhibit dates, see questions 17 and 18.)

13

How can I distinguish among the terms paygrade, general rate, rating, and rate? A paygrade is a position from 1 to 9 on the Navy's pay scale for enlisted personnel; in referring to a paygrade, the letter E (enlisted) precedes the number (E-1, E-2, E-3, E-4, E-5, E-6, E-7, E-8, and E-9). A general rate is an apprenticeship that indicates eligibility for entrance into various ratings. A rating is an occupation composed of a number of related jobs. A rate is an identifying term or title associated with a given paygrade. For example, the rate petty officer third class for paygrade E-4. A rating may also be associated with a specific rating; for example, a petty officer third class (paygrade E-4) whose rating is Air Controlman will usually refer to his or her rate as “Air Controlman Third Class.” Navy men and women usually refer to themselves by their rate. Refer to Appendix A for a description of the Navy Enlisted Rating structure.

14

Do all ratings provide paths of advancement and career development for paygrades E-4 through E-9? Although most ratings begin at paygrade E-4 and terminate at paygrade E-9, there are some exceptions. For example, the Legalman rating consists of paygrades E-5 through E-9. In this case, a person progresses to paygrade E-5 from paygrade E-4 of the Yeoman rating. At the other end of the spectrum, some ratings are structured so that a person holding a rating which consists only of paygrade E-9 (e.g., Master Chief Constructionman), may have progressed from any one of several related ratings that terminate at paygrade E-8. This allows personnel who are assigned to ratings that are low in density and in which occupational content is similar to progress to higher levels and scopes of authority and responsibility. Paths of progression are provided in each exhibit in the “Career Pattern” section.

15

How do I determine whether an applicant is eligible to receive the credit you recommend in your general rate and rating exhibits? Item 8 of NAVPERS 1070/604, “Navy Occupation/Training and Awards History,” provides the list of general rate(s) and rating(s) to which a person has advanced. Advancements are made and recorded in Item 8 only after all criteria for advancement, including passing performance and written tests, have been met and openings occur. Therefore, if the general rate or rating is listed in Item 8, the person has demonstrated his or her proficiency in it and is eligible to receive the credit that is recommended. DD Forms 214 and 295 also contain some information regarding general rates and ratings; however, they usually do not contain a person’s entire occupational history.

16

If the letters PNA (passed-but-not-advanced) appear in item 8 of NAVPERS 1070/604, Navy Occupation/Training and Awards History, or on DD Form 295, “Application for the Evaluation of Educational Experiences During Military Service,” should I grant the credit recommended for the rating the person holds or for the rating the person would have held if he or she had been advanced? The latter. Passed-but-not-advanced means that the person has passed the required written and performance examinations and is qualified for advancement. However, time in service, time in rate, and awards received also contribute to a person’s total advancement score, which is the basis used in determining who is selected to fill existing openings in a given rate. In other words, the PNA person has demonstrated his or her occupational proficiency but was not advanced because he or she had an insufficient number of points from sources other than examinations to compete successfully for the openings in a given rate.

17

If the date of a person’s advancement to a given general rate or rating is earlier than the start date of the exhibit, can I still use the recommendation? Probably not. You need to do some additional investigating to help you decide whether to accept or modify the recommendation. The start date established by OEC is based on how far back we can verify that the general rate or rating was the same as it was when our evaluation team evaluated it. The verification is
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based on official documentation given to us by the Navy. The documentation supports a start date of June 1971 for most general rates and ratings. However, several are later than June 1971. We do not have the means to confirm that a general rate or rating was the same before June 1971, but you might. There are two steps you will need to follow in making your decision:

1. Ask the person to provide a copy of the Navy Regulation pertaining to occupational qualifications or standards that were in effect when he or she held the general rate or rating. Use the qualifications or standards to identify the learning outcomes represented by the general rate or rating.

2. Determine how much credit may be granted to the person. (Remember that advancement connotes occupational proficiency. Therefore, it is not necessary to check for an evaluation score as it is with an Army enlisted MOS.) A careful comparison of the description in the general rate or rating exhibit and the qualifications or standards obtained in step one may reveal whether the general rate or rating was substantively different. If it was not, the credit recommendation in the exhibit may be used. If specific differences are identified, then the recommended credits may need to be modified accordingly. One approach to modifying the credit recommendation is to have faculty members in appropriate subject areas assess the person's learning. When assessing the learning for educational credit, they should identify the discrete learning outcomes achieved by the person and relate them to the educational objectives of their courses and programs of study. Equivalent credit should be granted when the person has demonstrated the achievement of the same learning outcomes for which the faculty members grant credit to their students. (See question 24 for information about assessment techniques.)

18

When a general rate or rating exhibit includes the statement, "Pending evaluation," how will I know when the ACE recommendations will be available? The "abbreviated" exhibit format was developed to inform you of the evaluation status of general rates and ratings. Such exhibits include only the OEC ID number, the title of the general rate or rating, the general rate or rating designation(s), and the exhibit dates with the statement, "Pending evaluation." When you encounter this statement, two things are certain: (1) the general rate or rating is one that was in use as of the publication cut-off date of January 1978 and (2) that ACE plans to evaluate the general rate or rating. As recommendations for general rates and ratings become available, they will be announced in the OEC Newsletter. The absence of an exhibit in this edition for a general rate or rating indicates that ACE has not evaluated it and has no plans to do so (except when a new rating is added to the enlisted classification system after January 1978). Inquiries about the evaluation status of a general rate or rating should be directed to the OEC Information Service (see p. xii).

19

Why is the number of credits recommended for the rating I just looked up greater than the number recommended for the course that leads to it? Discrepancies between the credit recommendations for related ratings and courses are not uncommon. Indeed, it is rare for the subject matter covered in a course to perfectly coincide with the learning represented by occupational proficiency. In most cases, there is quite a difference in scope: difference in the subject matter mastered by the learner and, when the subject matter is the same, a difference in the depth, breadth, and extent of the learning.

Usually the scope of a course is narrower than that of the job. Most Navy courses are designed to prepare Navy men and women to function on the job or to take on additional tasks. As such, the courses normally provide entry-level occupational skills and competencies. Occupational proficiency is predicated on extensive self-instruction.

In awarding credit for related ratings and courses, you need to be aware of the likelihood of overlapping credit recommendations. The term "overlapping" means that at least part of the learning represented by demonstrated occupational proficiency in the rating is the same as that for the course; therefore, some of the credits recommended may duplicate each other. A suggested procedure for resolving duplication is given in the answer to question 20.

20

I have looked up the exhibits for several courses and ratings for one person. Several of the credit recommendations within a given credit category are in the same subject areas. How can I avoid granting too much credit to this person? In this instance, you have an example of overlapping credit recommendations. Awarding a simple total of the recommended credits could result in the award of more credit than the learning merits.
Credit recommendations may overlap between (1) related courses, (2) related ratings, and (3) related courses and ratings.

Course recommendations will overlap when the individual has participated in several military courses in the same subject area and at the same level. Recommendations (both credit and apprenticeship) for ratings will overlap when the Navy man or woman or veteran has advanced to two or more ratings that require related qualifications and the performance of related or similar duties. Course recommendations and rating recommendations will overlap when the Navy man or woman or veteran has acquired his or her occupational proficiency, or a significant portion of it, through completion of one or more formal service school courses.

In all the instances cited, when the learning outcomes and courses or programs of study in which recommendations are made are the same or very similar, there is overlap, and you should modify the credit recommendations to avoid granting duplicate credit. To reconcile the overlap in the recommendations, compare the descriptions and recommendations and interview the Navy man or woman or veteran to obtain additional information. To determine how much credit may be awarded without duplication to an individual, use the following steps:

1. Identify the appropriate ratings held and/or formal courses completed by the individual from the official military records the individual provides.
2. Locate all pertinent and available rating exhibits and/or course exhibits in the Guide.
3. Locate the correct rate within each rating exhibit; for courses, locate the correct version within each course exhibit.
4. Read and compare all the descriptions.
5. Identify the appropriate recommendations in each exhibit, on the basis of the person's program of study.
6. Read and compare all the pertinent recommendations. It may be helpful to list the amount of credit and the subject areas or programs of study of each recommendation.
7. If necessary, obtain additional information from the individual through interview or further assessment.
8. When the nature and extent of the individual's learning has been identified, refer to all pertinent recommendations and make decisions on how much credit may be awarded without duplication. Credit should be awarded as appropriate to the educational goals of the individual and the policies of the institution.

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If you cannot determine whether duplication exists, write the Office on Educational Credit Information Service.

21

When credit is recommended in more than one category, what should I do? Credit has frequently been recommended in more than one category. One reason for multiple-category recommendations is that the scope of a given rating or course reflects learning in several subject fields at different levels of complexity. The learning outcomes acquired in a course or rating in one subject field may apply to courses normally included in lower-division baccalaureate/associate degree programs while those in another subject field may apply to courses normally included in upper-division baccalaureate programs. Another reason for multiple-category recommendations is that faculty members who serve as evaluators decide that learning in a given subject field can be applied to courses and programs of study encompassed by more than one of the categories; that is, learning in electronics, for example, may apply to the vocational certificate category and to the upper-division baccalaureate category. A thorough reading of the exhibit will help you to determine which category or categories is the best for you to apply. You will need to read the exhibit and compare learning outcomes achieved and course objectives and content with those of your own institution.

In the first instance—learning in several subject fields—the recommended credits may be added as long as all the subjects are applicable to the student's programs of study at your institution.

Example A:
In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills and 1 in principles of management. In the upper-division baccalaureate category, 3 semester hours in personnel management (6/75).

In Example A, up to 5 semester hours may be awarded if they apply to the student's program: 1 in communication skills, 1 in principles of management, and 3 in personnel management.

In the second instance—learning in a given subject field that is applied to two or more categories—the recommended credits probably should not be added. You will have to determine how they apply to the student's program of study at your institution.
QUESTIONS AND ANSWERS

22

I have a course recommendation in which credit in more than one category—but in the same subject area—is recommended. It looks like a combination of the previous examples. What do I do in that case? Credit categories could be combined, if, for example, the recommendation is:

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in office management. In the upper-division baccalaureate category, 3 semester hours in office management and 2 for field experience in management (11/75).

The 3 semester hours in office management recommended in the lower-division baccalaureate/associate degree category and the 3 in office management recommended in the upper-division baccalaureate category should not be combined for a total of 6. Eight semester hours might be granted if they apply to the student's program: 3 in typing, 3 in office management, and 2 for field experience in management. The evaluators have described the course content, and using that description from the course exhibit, you must determine the appropriate application of the credit recommendation.

 Example B:

In the vocational certificate category, 15 semester hours in electricity or electronics. In the lower-division baccalaureate/associate degree category, 10 semester hours in electricity or electronics. In the upper-division baccalaureate category, 5 semester hours in electricity or electronics.

In Example B, to determine how many credits to award, compare the information in the exhibit description with the desired outcomes of electricity or electronics or related courses and programs of study at your institution. Award credit based on comparison of these outcomes.

As a general rule, you should read the exhibit descriptions and then award credit as it best applies to the student's program of study as determined through academic counseling.

Credit may be applied to a student's program in various ways: (1) applied to the major to replace a required course; (2) applied as an optional course within the major; (3) applied as a general elective; (4) applied to meet basic degree requirements; or (5) applied to waive a prerequisite. Credit granted by a postsecondary institution will depend on institutional policies and degree requirements.

23

Do I have to grant credit exactly as it appears in the recommendation? No. The use of ACE recommendations is the prerogative of education officials and employers. The recommendations are provided to assist you in assessing the applicability of a person's military learning experiences to his or her educational program or occupation. You may modify the recommendations in accordance with your institution's policies and practices.

You should keep in mind, then, that the recommendations are advisory and are designed as a tool for use in giving due recognition to an individual for his or her learning experiences in the armed services. You should also keep in mind that the learning of some service personnel may exceed the skills, competencies, and knowledge evaluated for a specific course or rating. In these cases, you may wish to conduct further assessment. (See question 24 for information about assessment techniques.)

24

May I conduct my own assessment of an applicant's learning? Yes. In a sense, you are always conducting your own assessment, even when you use the recommendations in this book. The Guide is one of many tools you can use to assess what an applicant has learned and how that learning can be applied to a specific program of study at your institution. When you cannot find a recommendation in the Guide, or obtain one from OEC Information Service, we encourage you to use other means to assess what the person has learned.

There are a wide variety of assessment techniques that you can use, e.g., written examinations, oral examinations, faculty committee assessment, evaluation of materials supplied by the applicant, personal interviews, performance tests, and standardized examinations such as CLEP. A combination of several techniques will usually result in a reliable assessment of the person's learning.

You may learn more about assessment techniques through the publications of the Council for the Advancement of Experiential Learning (CAEL), formerly the Cooperative Assessment of Experiential Learning. Two CAEL reports give particularly helpful overviews of the topic: A Compendium of Assessment Techniques, by Joan Knapp and Amiel T. Sharon (CAEL-11; $3.50), and Principles of Good Practices in Assessing Experiential Learning, by Warren W. Willingham (CAEL-27; $3.50 for a single copy, $2.00 each for ten or more). The publications may be purchased from CAEL, American City Building, Suite 208, Columbia, Maryland 21044.
You should also watch for new additions to the ACE Guide Series, which now comprises the Guide and a companion volume, The National Guide to Credit Recommendations for Noncollegiate Courses, which lists recommendations for courses offered by business and industry, government agencies, professional and voluntary associations, and labor unions. The 1978 edition of The National Guide may be purchased from OEC ($8.00 a copy, prepaid). The office plans to add a guide to credit-by-examination programs to the series. Availability of the new guide will be announced in the OEC Newsletter.

25

I am an employer. How will the Guide be useful to me? You may find the exhibits helpful in identifying the skills and knowledge of veterans and placing them in jobs. The recommendations and descriptions enable you to compare a veteran's training and experience with the qualifications and requirements for jobs. The recommendations relate learning to postsecondary courses and curricula and, in some cases, to apprentice training programs.

QUESTIONS AND ANSWERS xx1

Additional questions and answers about using the Guide and the recommendations appear in the OEC Newsletter. If you are not already receiving the newsletter, write to the Editor, OEC Newsletter, Office on Educational Credit, American Council on Education, One Dupont Circle, Washington, DC 20036.
Course Exhibits

MERCHANT MARINE SAFETY

CG-0419-0001


Location: Coast Guard Academy, New London, CT.

Exhibit Dates: 2/61-12/68.

Objectives: To prepare officers for assignment to duty in a marine inspection office.

Instruction: Lectures and practical exercises in identification and certification of merchant marine personnel; naval architecture and ship construction; regulations for passenger, cargo, tank, and unprotected vessels; dangerous cargo; loading and stowing; and marine and electrical engineering regulations; equipment specifications; welding, hull, tank, and piping systems, and vessel inspection; fire fighting and vessel repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in transportation operations (12/68).

MERCHANT MARINE SAFETY

CG-0701-0001

Dental Technician A School

Course Number: None.

Location: Coast Guard Academy, New London, CT.

Length: 12 weeks (423 hours).

Exhibit Dates: 2/73-Present.

Objectives: To provide enlisted personnel with a basic knowledge of dental assisting.

Instruction: Lectures and practical experience in chairside assisting, basic radiology, prophylaxis, operating room assisting, dental anatomy, first aid, preventive dentistry, and dental office administration.

Credit Recommendation: No credit because of the limited specialized nature of the course (2/74).

CG-0703-0001

Basic Hospital Corpsman, Class A

Course Number: G1009.

Location: Coast Guard Academy, New London, CT.

Length: 16 weeks (640 hours).

Exhibit Dates: 4/74-Present.

Objectives: To train enlisted personnel in the basic principles and techniques necessary to provide direct patient care to the sick and injured with the main emphasis on independent duty.

Instruction: Instruction includes general anatomy and physiology, medical and surgical conditions, preventive medicine, principles and techniques of patient care, medical administration, medical mathematics and pharmacology, laboratory techniques, instructional and leadership techniques, first aid, military and administrative regulations, and supervised clinical experiences.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and physiology, 2 in pharmacology, 2 in health and hygiene or preventive medicine, 2 in emergency medical techniques, 3 in nursing techniques, and 4 in clinical practice (11/77).

HOSPITAL CORPSMAN

CG-0709-0001

CG-0802-0004

National Boating Safety

Course Number: None.

Location: Reserve Training Center, Yorktown, VA.

Length: 36 weeks (1010 hours).

Exhibit Dates: 9/72-Present.

Objectives: To train personnel in boating safety.

Instruction: Lectures and practical exercises to include boating safety; federal laws and regulations; definitions and terminology; equipment for various crafts; boating communication and lighting; first aid; boating procedures and techniques; and rules of the road.

Credit Recommendation: In the vocational certificate category, 4 semester hours in federal and state boating safety inspection (17/74).

CG-1304-0001

Marine Science Technician

Course Number: None.

Location: Coast Guard Training Center, Governors Island, NY.

Length: 19 weeks (159 hours).


Objectives: To provide the student with a basic understanding of marine science and extensive experience in the use and maintenance of oceanographic instruments.

Instruction: Lectures and practical experience in meteorology, principles of physical and chemical oceanography and the air-sea interface, and problems in marine science technology.

Credit Recommendation: In the vocational certificate category, 4 semester hours in marine science (12/73); in the lower-division baccalaureate/associate degree category, 4 semester hours in marine sciences (12/73); in the upper-division baccalaureate category, 3 semester hours in oceanography (12/73).

CG-1304-0002

Oceanographic Technician

Course Number: None.

Location: Oceanographic School, Groton, CT.

Length: 8-9 weeks (323-359 hours).

Exhibit Dates: 4/66-12/68.

Objectives: To train enlisted personnel in the fundamentals of oceanography.

Instruction: Lectures and practical experience in the fundamentals of biological, chemical, and physical oceanography essential to the operation of instruments for gathering data at sea.
COURSE EXHIBITS

Credit Recommendation: In the vocational certificate category, 4 semester hours in aviation maintenance (12/73); in the lower-division baccalaureate/associate degree category, 4 semester hours in oceanography (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in oceanography (12/68).

CG-1404-0001
RADHMAN
(RADHMAN CLASS A)
Course Number: None.
Location: Version 1: Radhman School, Port Hueneme, CA. Version 2: Training Center, Groton, CT.
Objectives: To train enlisted personnel to be radioman.
Instruction: Lectures and practical exercises in typing, voice procedures, communication equipment, Morse code, electronics, teletypewriter operations, publications, security, leadership, andfirst aid.
Credit Recommendation: In the vocational certificate category, 2 semester hours in typing (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in typing (6/74).

CG-1405-0001
AVIATION ELECTRONICS TECHNICIAN (AET)
COMMUNICATIONS, CLASS A
Course Number: None.
Location: Training Center, Port Hueneme, CA.
Length: 3 weeks (912 hours).
Exhibit Dates: 4/68-12/68.
Objectives: To train enlisted personnel to receive, copy, and send international Morse code.
Instruction: Lectures and practical exercises in the use of Morse code and telegraph equipment. Course includes learning Morse code alphabet, symbols, basic Morse key, message procedures and formats, and development of copy and sending skills at the rate of eight words a minute.
Credit Recommendation: No credit because of the limited specialized nature of the course (6/74).

CG-1406-0001
INSTRUCTOR TRAINING, CLASS C
Course Number: None.
Location: Coast Guard Training Center, Groton, CT.
Length: 4 weeks (83 hours).
Exhibit Dates: 3/66-12/68.
Objectives: To prepare qualified enlisted personnel of the Coast Guard for assignment to instructor duties at major training centers, ship training detachments, district training teams, and military missions and other instructional duties.
Instruction: This course includes teaching methodology, teaching aids, lesson plans, and practical teaching.
Credit Recommendation: In the vocational certificate category, 2 semester hours in instructional aids (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in instructional aids (7/74); in the upper-division baccalaureate category, 2 semester hours in instructional aids (7/74).

CG-1409-0001
YEFROM SCHOOL, CLASS A
Course Number: None.
Location: Coast Guard Training Center, Groton, CT.
Length: 12 weeks (468 hours). Exhibit Dates: 6/66-12/68.
Objectives: To provide men with training in office and clerical procedures including operation and maintenance of typewriters.
Instruction: Lectures and practical exercises in typing, filing, correspondence, personnel records, office procedures and etiquette.
Credit Recommendation: In the vocational certificate category, 3 semester hours in typing, 3 in office procedures (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 3 in office practice (3/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).

CG-1409-0002
STOREKEEPER, CLASS A
Course Number: None.
Location: Training Center, Petaluma, CA. Version 1: Training Center, Groton, CT.
Length: 12 weeks (436-446 hours).
Exhibit Dates: 6/66-Present.
Objectives: To train enlisted personnel to keep-keepers.
Instruction: Lectures and practical exercises in procurement, typing, use of office machines, control, inventory control, requisitions, publications, despatching, transportation, property, travel, and pay and allowances.
Credit Recommendation: In the vocational certificate category, 1 semester hour in typing (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typing (6/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).

CG-1704-0001
AVIATION MECHANIC'S Mate
Course Number: None.
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Objectives: To provide fundamental principles of elementary aviation, including engine, mechanical, hydraulic, and electrical systems in aircraft maintenance.
Instruction: Lectures and practical exercises in the use of equipment, mechanics, theory of flight, power plants, instruments, electrical systems, and maintenance. Version 1 includes arithmetic, and devotees 212 hours; above cited areas; remainder of course is military specific to Coast Guard aircraft and general military duties.
Credit Recommendation: Version 1: In the vocational certificate category, 1 semester hour in aviation maintenance (9/77); in the lower-division baccalaureate/associate degree category, 2 semester hours in aviation maintenance technology (9/77).
CC-1704-0004
158-GE-88 ENGINE MAINTENANCE, CLASS C
Course Number: None
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Length: 3 weeks (125 hours)
Exhibit Dates: 2/76-Present.
Objectives: To train students in the maintenance and adjustment of 158-GE-88 turbojet engines.
Instruction: Students remove engines, disassemble, inspect, assemble, and test power plants in airframes; run engines; and make additional control and preservation techniques included.
Credit Recommendation: In the vocational technology certificate category, 2 semester hours in aviation mechanics (9/77); in the lower-division baccalaureate/associate degree category, 2 semester hours toward an aviation technology degree (9/77).

CG-1704-0005
H1L-52A AIRFRAME AND POWERPLANT, CLASS C
Course Number: None
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Length: 5 weeks (215 hours)
Exhibit Dates: 5/76-Present
Objectives: To train students to maintain and adjust H1L-52A airframe and powerplant systems.
Instruction: Maintenance instruction is in the areas of gear boxes, drive shafts, main and tail rotor heads, and fuel, hydraulic, and oil systems. Students also learn how to replace and adjust components.
Credit Recommendation: In the vocational technology certificate category, 3 semester hours toward aviation airframe mechanics (9/77); in the lower-division baccalaureate/associate degree category, 2 semester hours toward an aviation technology degree (9/77).

CG-1704-0006
HC-114A AIRCRAFT MAINTENANCE, CLASS C
Course Number: None
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Length: 6 weeks (240 hours)
Exhibit Dates: 5/76-Present
Objectives: Provides training in the repair, troubleshooting, and general maintenance of HC-114A aircraft.
Instruction: Introduction to HC-114A aircraft and ground handling equipment; instruction in the operation of major engine subsystems, including fuel instrumentation, and propellers; and in other aircraft subsystems, including electrical, safety, hydraulic, landing gear, air conditioning, pressurization, fire detection, and automatic pilot.
Credit Recommendation: In the vocational technology certificate category, 4 semester hours in aircraft maintenance (9/77).

CG-1708-0001
BOATSWAIN'S MATE, CLASS A
(BOATSWAIN'S MATE SCHOOL)
Course Number: None
Location: Reserve Training Center, Yorktown, VA.
Length: 8-12 weeks (222-271 hours)
Exhibit Dates: 6/66-Present
Objectives: To train enlisted personnel to perform as boatswain's mate.
Instruction: Lectures and practical exercises in selected, associated subjects, including information, nomenclature, and exercises in mathematics; pulling boats, operation of small boats, and repairing and maintaining outboard motors; small boats, and gunnery, cargo handling, protecting nuclear, biological, and chemical defenses; radiotelephone operation and secure communication; and field weapon training.
Credit Recommendation: In the vocational technology certificate category, 4 semester hours in marine technology (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in marine technology (6/74).

CG-1710-0001
DAMAGE CONTROLMAN
Course Number: None
Location: Training Station, Groton, CT.
Length: 16 weeks (687 hours)
Exhibit Dates: 8/67-12/71
Objectives: To train enlisted personnel to maintain and repair boats.
Instruction: Lectures and practical exercises in basic skills, including damage repair, maintenance, and repair; fire fighting, firefighting, and fire fighting.
Credit Recommendation: In the vocational technology certificate category, 4 semester hours in marine technology (6/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in repair and maintenance (4/74).

CG-1712-0001
ENGINEER, CLASS A
Course Number: None.
Location: Training Center, Groton, CT.
Length: 14-16 weeks (510-581 hours)
Exhibit Dates: 8/66-Present
Objectives: To train enlisted personnel to perform as engineer.
Instruction: Lectures and practical exercises in the functions of engineer strikes and engineering; third class, including tools and measuring instruments; gas welding and cutting; hydraulics, basic engines, engine fuel systems; general motors unit injector; engine controls, GM-71 auxiliary pumps, engine overhauls, diesel engine troubleshooting, lubricating oil testing, jacket water treatment and testing, centrifugal pumps, electricity, outboard motors, boilers, gas turbines, refrigeration, and power transmission systems.
Credit Recommendation: In the vocational technology certificate category, 6 semester hours in diesel engines and auxiliaries (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in automotive technology (6/75).

CG-1714-0001
ELECTRICIAN'S MATE SCHOOL
Course Number: None.
Location: Reserve Training Center, Groton, CT.
Length: 16 weeks (580 hours)
Exhibit Dates: 8/65-Present
Objectives: To train enlisted personnel to inspect, maintain, and operate electrical equipment on small boats.
Instruction: Lectures and practical exercises in mathematics, DC and AC circuits, transformers, DC motors and generators, alternating current, and three-phase motors, simple-phase motors, and controls.
Credit Recommendation: In the vocational technology certificate category, 6 semester hours in electrical engineering (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity on the basis of institutional evaluation (6/75).

CG-1715-0001
AVIATION ELECTRONICS TECHNICIAN, CLASS A
Course Number: None.
Location: Aviation Electronics Technician School, Elizabeth City, NC.
Length: 28 weeks (1,015 hours)
Exhibit Dates: 12/77-Present
Objectives: To provide selected enlisted personnel with the understanding and knowledge necessary to fulfill the requirements for Aviation Electronics Technician.
Instruction: Electronics fundamentals, theory of operation of airborne electronic systems; troubleshooting and testing airborne electronics systems; operating associated test equipment. Lecture and testing (609 hours) and laboratory (282 hours)
COURSE EXHIBITS

with approximately 70% of time devoted to general electronics topics. Remainder is devoted to military specific subjects.

Credit Recommendation: In the vocational certificate category, 15 semester hours in electronics (11/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics for non-electronics majors only (11/74).

COURSE NO: 1

AN/FPN-32 RECEIVER

Location: Groton, CT.

Exhibit Dates: 11/62-12/68.

Objectives: To train enlisted personnel to operate, maintain and align the AN/FPN-32 receiver.

Instruction: Lectures and laboratories in fundamentals of Lorenz-C and AN/SPN-29 receivers, and operation and maintenance procedures.

Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

COURSE NO: 2

AN/FPN-38 TIMER SYNCHRONIZER

Location: Groton, CT.

Exhibit Dates: 7/62-12/68.

Objectives: To train personnel to operate and maintain a specific Lorenz-C system.

Instruction: Lectures, and practical exercises in the operation and maintenance of the AN/FPN-38 Lorenz-C system, including components, circuitry, timing and divider action, and alignment procedures.

Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

COURSE NO: 3

AN/FPN-41 TIMER

Location: Groton, CT.

Exhibit Dates: 7/62-12/68.

Objectives: To train personnel to operate, maintain, and align the AN/FPN-41 timer.

Instruction: Lectures and laboratories in fundamentals of Loran-C and AN/SPN-29 receivers, and operation and maintenance procedures.

Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

COURSE NO: 4

AN/SPN-29 RECEIVER

Location: Groton, CT.

Exhibit Dates: 7/62-12/68.

Objectives: To train enlisted personnel to operate, maintain, and align the AN/SPN-29 receiver.

Instruction: Lectures and laboratories in fundamentals of Loran-C and AN/SPN-29 receivers, and operation and maintenance procedures.

Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).
transformer, power supplies, vacuum tubes, transistors, AM/FM/SSB transmitters, VH/F/HF systems, servo systems, radar,oran, sonar, fathometers, and test equipment. Operation, maintenance, and repair with basic mathematics and physics, and a thorough coverage of electronic circuits.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in electronic circuit theory (0/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronic circuit theory. Version 2: In the vocational certificate category, 45 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (0/75); in the upper-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74). Version 3: In the upper-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

CG-1715-0013 ORDNANCE EQUIPMENT, CLASS C

Course Number: None.
Location: Training Center, Groton, CT.
Length: 8 weeks (429 hours).
Exhibit Dates: 6/66-12/68.

Objectives: To upgrade knowledge and practical skills of fire control technicians and gunner's mates in specific Coast Guard ordnance, fire control, and antisubmarine warfare systems.

Instruction: Lectures and practical exercises in operation and maintenance of fiveinch gun power drive, gun radar system, fire control systems, projectile hoists, loading systems, mounting systems, battery alignment, explosive demolition, 50 caliber machine gun, antisubmarine warfare devices, and 81mm mortar, and review of electricity and hydraulics.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic electricity, 2 in basic hydraulics (0/75).

CG-1715-0014 AN/AYN-2, AN/ASN-50 FLIGHT DIRECTOR AND NAVIGCOMPASS SYSTEMS CLASS B

Course Number: None.
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Length: 3 weeks (105 hours).
Exhibit Dates: 9/76-Present.

Objectives: To train students to recognize, isolate, and correct malfunctions in AN/AYN-2 Flight Director/AN/ASN-50 Attitude Reference System, and to perform preventive maintenance on the equipment.

Instruction: Course builds on previous electronics fundamentals training. Lectures and testing and laboratory work in the systems and specific test equipment, including a brief review of main frame and gyro fundamentals. Study beyond lecture/laboratory (73/291 hours) recommended but not required.

Credit Recommendation: In the vocational certificate category, 2 semester hours in avionics maintenance (0/97).
COURSE EXHIBITS

Instruction: Lectures and practical exercises in the theory, operation, maintenance, and troubleshooting of special military communication systems including JK flip-flop, shift registers, ring counters, signal selectors, digital data receivers, and specialized equipment related to the military system.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic communication laboratory (6/75).

CG-1715-0019

1. AN/ARC-94 CLASS C ANI/GR H, COMMUNICATION SYSTEM AND ANTENNA COUPLER

Course Number: None.
Location: Aircraft Repair and Supply School, Elizabeth City, NC.
Length: 3 weeks (98 hours).
Objectives: To train personnel in the operation, maintenance, and repair procedures of a high-frequency communication transceiver.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic communication laboratory (6/75).

CG-1715-0020

AVIONICS EQUIPMENT, CLASS C, AN/ARN-52(V)

Course Number: None.
Location: Aircraft Repair and Supply School, Elizabeth City, NC.
Length: 3 weeks (98 hours).
Exhibit Dates: 1/73-Present.
Objectives: To provide students with background needed to operate, maintain, and repair a specific navigation system.

Instruction: Lectures and practical exercises in the specific modules contained in the navigation equipment. Study beyond lecture/laboratory work suggested but not required.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/75).

CG-1715-0021

AVIONICS EQUIPMENT, CLASS C, AN/ARN-52(V)

Course Number: None.
Location: Aircraft Repair and Supply School, Elizabeth City, NC.
Length: 3 weeks (98 hours).
Exhibit Dates: 1/73-Present.
Objectives: To provide students with background needed to operate, maintain, and repair a specific navigation system.

Instruction: Lectures and practical exercises in the specific modules contained in the navigation equipment. Study beyond lecture/laboratory work suggested but not required.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/75).

CG-1715-0022

AVIONICS EQUIPMENT, CLASS C, AN/ARC-51A

Course Number: None.
Location: Aircraft Repair and Supply School, Elizabeth City, NC.
Length: 2 weeks (65 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train personnel to operate, maintain, and repair an ultra high frequency communication transceiver.

Instruction: Lectures and practical exercises in the specific modules contained in the equipment used in a military communication system.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/75).

CG-1715-0023

LORAN OFFICERS INDOCTRINATION

Course Number: None.
Location: Training Center, Groton, CT.
Length: 2 weeks (106 hours).
Exhibit Dates: 7/66-12/68.
Objectives: To qualify personnel to perform supervisory duties and to operate and maintain Loran communication stations.

Instruction: Lectures and practical exercises in the operation of Loran transmitters and receivers.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic communication laboratory (6/75).

CG-1715-0024

AN/APN-1 NAVIGATION COMPUTER SYSTEMS CLASS C

Course Number: None.
Location: Aircraft Repair and Supply School, Elizabeth City, NC.
Length: 6 weeks (210 hours).
Exhibit Dates: 9/76-Present.
Objectives: To provide students with background needed to operate, maintain, and repair the specific electronic navigation system.

Instruction: Lectures and practical exercises in the specific modules contained in the navigation equipment. Study beyond lecture/laboratory work suggested but not required.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/75).

CG-1715-0025

AN/APN-195 WEATHER RADAR SYSTEMS CLASS C

Course Number: None.
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic communication laboratory (6/75).

Length: 3 weeks (105 hours).
Exhibit Dates: 9/76-Present.
Objectives: Course is designed to teach theory, operation, and maintenance of special radar equipment used by this service agency.

Instruction: Instruction is on weather radar systems, with emphasis on basic theory, power distribution, and transmitting and receiving systems; instruction includes introduction to solid-state theory.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in specialized programs in meteorology and/or tower operation (9/77).

CG-1715-0026

AN/APN-171 RADAR ALTIMETER SYSTEM CLASS C

Course Number: None.
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Length: 2 weeks (70 hours).
Exhibit Dates: 9/76-Present.
Objectives: To teach the fundamentals and theory of radar altimeters in order to improve maintenance and repair techniques.

Instruction: Course provides hands-on instruction to accomplish the above objectives.

Credit Recommendation: In the vocational certificate category, 1 semester hour in a specialized program in navigation and/or control tower operation (9/77).

CG-1715-0027

AN/APN-175 DOPPLER RADAR, NAVIGATION

Course Number: None.
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Length: 4 weeks (140 hours).
Exhibit Dates: 9/76-Present.
Objectives: Course will give students an understanding of the Doppler principle in navigation and provide them with practical experience in the operation and troubleshooting of this navigation equipment.

Credit Recommendation: No credit because of the limited specialized nature of the course (9/77).

CG-1715-0028

AN/APN-180 LORAN A NAVIGATION SYSTEM CLASS C

Course Number: None.
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Length: 4 weeks (140 hours).
Exhibit Dates: 9/76-Present.
Objectives: Course provides an understanding of the Doppler principle in navigation and provides them with practical experience in the operation and troubleshooting of this navigation equipment.

Credit Recommendation: No credit because of the limited specialized nature of the course (9/77).
category, 2 semester hours as an elective in engineering technology (9/77).

CG-1715-0029
ARC-160 COMMUNICATIONS SYSTEM
(AN/ARC-160) COMMUNICATIONS SYSTEM
(C/AVIATION ELECTRONICS TECHNICIAN AN/ARC-160)
Course Number: None.
Location: Aircraft Repair and Supply Center, Elizabeth City, NC.
Length: 3 weeks (93-125 hours).
Exhibit Dates: 12/76-Present.
Objectives: To train students to troubleshoot, adjust, and maintain AN/ARC-160 VHF-FM radio receiver sets.
Instruction: Course builds on previous electronic training. Lecture and testing. 2 semester hours as an elective in avionics maintenance (9/77).

CG-1717-0001
SENIOR PETTY OFFICER LEADERSHIP AND MANAGEMENT
Course Number: None.
Location: Reserve Training Center, Yorktown, VA; Training Center, Petaluma, CA.
Length: 3 weeks (107 hours).
Exhibit Dates: 5/76-12/77.
Objectives: To train students to troubleshoot; adjust, and maintain AN/ARC-160 VHF-FM radio receiver sets.
Instruction: Course builds on previous electronic training. Lecture and testing. 2 semester hours as an elective in avionics maintenance (9/77).

CG-1717-0003
JUNIOR OFFICER LEADERSHIP AND MANAGEMENT
Course Number: None.
Location: Reserve Training Center, Yorktown, VA; Training Center, Petaluma, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 12/76-Present.
Objectives: The student will have a theoretical understanding and practical working knowledge of basic principles of management, leadership, and human resource development.
Instruction: Topics include group dynamics, motivation theory, interpersonal relations through Transactional Analysis, organizational communications, situational leadership, and work planning techniques. Instructional methods include lectures, case studies, role playing, simulation, and discussion.
Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in avionics maintenance (9/77).

CG-1717-0004
RESERVE OFFICER, CHIEF LEADERSHIP AND MANAGEMENT
Course Number: None.
Location: Reserve Training Center, Yorktown, VA; Training Center, Alameda, CA; Training Center, Petaluma, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 12/76-Present.
Objectives: The student will have a basic theoretical understanding and practical working knowledge of the basic principles of management, leadership, and human resource development.
Instruction: Topics include group dynamics, motivation theory, interpersonal relations through Transactional Analysis, organizational communications, situational leadership, and work planning techniques. Instructional methods include lectures, case studies, role playing, simulation, and discussion.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to management or leadership development and human relations (12/77).

CG-1728-0001
PORT SECURITY/LAW ENFORCEMENT OFFICER
Course Number: None.
Location: Reserve Training Center, Yorktown, VA.
Length: 3-6 weeks (146 hours).
Exhibit Dates: 1/66-12/77.
Objectives: To train officers in the fundamentals and techniques of criminal justice, police administration, and port security.
Instruction: General law; police administration; source of law; law enforcement; judicial; evidence; arson, sabotage, and human resources.
Credit Recommendation: In the vocational certificate category, 3 semester hours in hotel, restaurant, and institutional curricula (12/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel, restaurant, and institutional curricula (12/77); in the upper-division baccalaureate category, 3 semester hours in hotel, restaurant, and institutional curricula (12/77).

CG-1729-0001
COMMISSARYMAN, CLASS A
Course Number: None.
Location: Coast Guard Training Center, Groton, CT.
Length: 16 weeks (686 hours).
Exhibit Dates: 6/64-10/72.
Objectives: To train cooks and bakers for mess operations.
Instruction: Principles and techniques of cooking and baking, with some instruction in purchasing and menu planning.
Credit Recommendation: In the vocational certificate category, 3 semester hours in hotel, restaurant, and institutional curricula (12/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel, restaurant, and institutional curricula (12/77); in the upper-division baccalaureate category, 3 semester hours in hotel, restaurant, and institutional curricula (12/77).

CG-1729-0002
SUBSISTENCE SPECIALIST
Course Number: None.
Location: Coast Guard Training Center, Petaluma, CA.
Length: 18 weeks (909 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train subsistence specialists to operate and manage general stores, officer messes, and private messes.
Instruction: Training covers all subject matter found in introductory food production and volume food service management courses.
Credit Recommendation: In the vocational certificate category, 6 semester hours in hotel, restaurant, and institutional management (12/77); in the lower-division baccalaureate/associate degree category, 6 semester hours in hotel, restaurant, and institutional management (12/77); in the upper-division baccalaureate category, 6 semester hours in hotel, restaurant, and institutional management (12/77).
COURSE EXHIBITS

CG-1731-0001

OUTBOARD MOTORS, MOTOR MAINTENANCE AND OVERHAUL, CLASS C

Course Number: None.
Location: Reserve Training Center, Yorktown, VA.
Length: 2 weeks (60 hours).
Exhibit Dates: 7/65–Present.

Objectives: To train enlisted personnel to operate, maintain, overhaul, and perform maintenance analysis of outboard and inboard/outboard engines.

Instruction: Lectures and practical exercises in the disassembly, reassembly, and testing of the two- and four-cylinder inboard/outboard marine engines.

Credit Recommendation: In the vocational certificate category, 1 semester hour in small engine repair (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in small-engine laboratory (6/75).

CG-2205-0001

MAJOR AIDS TO NAVIGATION

Course Number: None.
Location: Version 1: Training Center, Governors Island, NY. Version 2: Training Center, Groton, CT.

Objectives: To train enlisted personnel to operate major aids to navigation, fog signal stations, and lightships.

Instruction: Version 1: Lectures and practical exercises in basic electricity, including troubleshooting of major aids, visual signalizing, sound signals, minor lights, and introduction to outboard motors. Version 2: Lectures and practical exercises in aids to navigation, including function, preventive maintenance, testing, and troubleshooting of major navigational aids equipment, test equipment, problems and hazards training, first aid, and installation, operation and maintenance of major aid apparatus and special testing equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic electricity (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in maritime trades (light station operator) (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in maritime trades (light station operator) and on the basis of institutional evaluation, 2 in basic electricity (6/75). Version 2: In the vocational certificate category, 5 semester hours in marine technology or oceanography, 2 as an elective in automotive technology, 2 as an elective in electrical technology, 2 as an elective in industrial technology, 1 as an elective in electrical technology (5/74).

CG-2205-0002

MINOR AIDS TO NAVIGATION

Course Number: None.
Location: Version 1: Training Center, Governors Island, NY. Version 2: Training Center, Groton, CT.

Objectives: To train enlisted personnel for duty aboard tenders and at light attendant stations.

Instruction: Lectures in piloting and buoy positioning; charts; basic electricity; AC and DC theory and equipment; engine operation programs, including theory, fuels, cooling systems; electrical and mechanical systems, piping and exhaust systems, and engineering safety; minor light and fog equipment; and buoys, minor structures, burning equipment, and power tools operation.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in maritime trade (minor aids to navigation maintenance) (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in maritime trade (minor aids to navigation maintenance) (6/75). Version 2: In the vocational certificate category, 2 semester hours as an elective in electrical technology, 2 as an elective in automotive technology, and 3 in marine technology or oceanography (5/74).

CG-2205-0003

AIDS TO NAVIGATION SCHOOL (SHORT COURSE FOR OFFICERS)

Course Number: None.
Location: Training Station, Groton, CT.
Length: 3 weeks (120 hours).
Exhibit Dates: 4/54–12/68.

Objectives: To train officers to operate standard aids to navigation.

Instruction: Lectures in aids to navigation significance, battery-operated lights, acetylene-operated lights, light station management, radio beacon operation, diesel generators operation and maintenance, emergency safety measures, fog signals, buoy handling, shop management, field inspection, and light attendant duties.

Credit Recommendation: In the vocational certificate category, 2 semester hours in navigational aids (5/74).

CG-2205-0004

OFFICER CANDIDATE SCHOOL

Course Number: None.
Location: Reserve Training Center, Yorktown, VA.
Length: 17 weeks (480 hours).
Exhibit Dates: 2/61–12/68.

Objectives: To provide candidates with the training prerequisite to active duty as commissioned officers in the Coast Guard.

Instruction: Combat information center; Coast Guard orientation; communications; damage control; atomic, biological, and chemical warfare; gunnery; navigation; seamanship; training vessel; drill; physical education; military law; safety and first aid.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in advanced naval science (12/68).

CG-2205-0005

GENERAL SERVICE INDORISONCTION SCHOOL

Course Number: None.

Location: Coast Guard Academy, New London, CT; Reserve Training Center, Yorktown, VA.
Length: 12 weeks (340 hours).
Exhibit Dates: 2/61–12/68.

Objectives: To train officers commissioned from the U.S. Merchant Marine in the fundamentals necessary for performance of duty as commissioned officers in the Coast Guard.

Instruction: Coast Guard orientation; communications; rules of the road; navigation; combat information center; gunnery; antisubmarine warfare; damage control, including atomic, biological, and chemical warfare; Coast Guard engineering.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in advanced naval science (12/68).

CG-2205-0006

RADIOBEACON OPERATION

Course Number: None.
Location: Aids to Navigation School, Governors Island, NY.
Length: 2 weeks (58 hours).
Exhibit Dates: 7/65–12/68.

Objectives: To train personnel in the operation, watchstanding, reporting, maintenance, and minor repair of radio beacon equipment.

Instruction: Lectures and practical exercises in the operation, monitoring, maintenance, and minor repair of an unspecified radio beacon.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/75).

CG-2205-0007

SMALL ARMS INSTRUCTOR

Course Number: None.
Location: Reserve Training Center, Yorktown, VA.
Length: 2 weeks (60 hours).
Exhibit Dates: 10/73–Present.

Objectives: To train enlisted personnel to teach pistol and rifle marksmanship and provide them with the knowledge and skills to teach pistol and rifle marksmanship and the management of firing ranges.

Credit Recommendation: No credit because of the military nature of the course (6/75).

CG-2205-0008

OFFICERS ADVANCED AIDS TO NAVIGATION (AIDS TO NAVIGATION OFFICER ADVANCED)

Course Number: None.
Location: Aids to Navigation School, Governors Island, NY.
Length: 2 weeks (64 hours).
Exhibit Dates: 11/69–Present.

Objectives: To provide personnel with advanced training in signals engineering and administration.

Instruction: Lectures and practical exercises in signals engineering, system evaluation, and legal aspects of aids-to-navigation.

Credit Recommendation: No credit because of the military nature of the course (6/75).
OFFICERS BASIC AIDS TO NAVIGATION

(Officers Basic AIDS to Navigation, Class 0)
(AIDS TO NAVIGATION OFFICER Basic)

Course Number: None
Location: Basic AIDS to Navigation School, Governors Island, NY; Coast Guard Training Center, Groton, CT.
Length: 4-week (124-137 hours).
Exhibit Dates: 4/66-Present.

Objectives: Training in the administration, evaluation, maintenance, and operation of the federal system of Aids to Navigation.

Instruction: Lectures and practical exercises in minor aids, minor aid power, major aids, major aid power, sound and visual signaling, major structures, the day mark, the buoy tender, safety, and administration.

Credit Recommendation: In the vocational certificate category, 1 semester hour in maritime trades (navigation aid) (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in maritime trades (navigation aids) (6/75).

DD-0326-0001

ARMED FORCES STAFF COLLEGE

Course Number: None.
Location: Armed Forces Staff College, Norfolk, VA.

Objectives: To train officers in joint and combined military organization, planning, and operations, and in related aspects of national and international security.

Instruction: Lectures, readings, and student research and discussions in joint and combined military organization, planning, and operations, and in related aspects of national and international security.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 6 semester hours in principles and problems of management; 3 in international relations (Current Problems in World Politics), 3 in contemporary U.S. military history and national security policy, 3 in communicative arts (8/74); in the graduate degree category, 3 semester hours in management and systems analysis (8/74).

NOTE: Credit recommendation is based on an on-site evaluation. Recommendations for credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and regulations of the admitting institution on transfer credit. Version 2: In the upper-division baccalaureate category, 6 semester hours in business administration, 6 in political science including international relations; 3 in recent military history (8/74).

DD-0504-0001

INFORMATION SPECIALIST (JOURNALIST) (Basic Military Journalist)

Course Number: ABA79130-1(USAF); 570-71020; A-570-00113(USN); 28-R-701-1.

Location: Defense Information School, Ft. Benjamin Harrison, IN; Defense Information School, Ft. Slocum, NY.

Objectives: To teach selected enlisted personnel the principles, techniques, and skills required in public information, service information, and community relations.

Instruction: Lectures and practical experiences in print journalism, including interviewing techniques, news and feature writing, editing, newspaper layout and makeup; photojournalism, including the taking, processing, and printing of photographs; radio and television writing; speech; international relations and government; public affairs and joint media, broadcast media, and photography are emphasized.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the vocational certificate category, 2 semester hours in mass media (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours-in mass media (12/73); in the upper-division baccalaureate category, 3 semester hours in journalism, and credit in social sciences and oral communication on the basis of institutional evaluation (12/68).

DD-0504-0002

ADVANCED INFORMATION SPECIALIST


Objectives: To provide advanced training in the planning, supervision, and coordination of information activities for selected noncommissioned officers and petty officers who will perform duties as either an officer-in-charge of an information office/section or a radio and television facility.

Instruction: Applied journalism, including news, headline, editorial, and feature writing; page layout and makeup; radio and television, including news and feature writing, announcing, studio operations, television camera techniques, control room operation, newscast preparation and production, blocking scripts, and television feature production.

Credit Recommendation: Version 1: In the vocational certificate category, 1 semester hour in mass media (12/73); in the lower-division baccalaureate/associate degree category, 1 semester hour in mass media (12/73); in the upper-division baccalaureate category, 1 semester hour in mass media (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in mass media (12/73); in the upper-division baccalaureate category, 3 semester hours in journalism, and credit in social sciences on the basis of institutional evaluation (12/68).

Department of Defense

DD-0504-0003

NEWSPAPER EDITOR

Course Number: 570-F2; A-570-0013; 5AZA79150.
Location: Defense Information School, Ft. Benjamin Harrison, IN.
Length: 3 weeks (118-132 hours).

Objectives: To provide a workshop for enlisted public affairs/information specialists already serving on staffs of service newspapers; to review skills of newsgathering, writing, and editing; to teach layout, page makeup, proofreading, and news judgment and balance.

Instruction: Version 1: Course is highly individualized, self-paced program consisting of pretest, group-paced, self-paced, final performance test and newspaper improvement project. Subject areas include photojournalism, print journalism and public affairs. Version 2: Lectures and practical experience in all phases of newspaper production, culminating with a 4-page service newspaper. Workshop includes communications law, Department of Defense policy on release of information, newsgathering, writing, editing, deadlines, photo selection and editing, and layout and page makeup.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the vocational certificate category, 2 semester hours in journalism (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in journalism (12/73); in the upper-division baccalaureate category, 2 semester hours in journalism (12/68).

DD-0504-0004

INFORMATION ENLISTED

(INFORMATION SPECIALIST)

Course Number: 28-E-1; 28-R-701-1; 28-R-703-1; 28-R-703-2.
Location: Defense Information School, Ft. Benjamin Harrison, IN; Defense Information School, Ft. Slocum, NY.
Length: 8-10 weeks (278-345 hours).
Exhibit Dates: 11/56-12/68.

Objectives: To provide enlisted personnel with a working knowledge in the selection, evaluation, preparation, and dissemination of Army information through available media of communications.

Instruction: Policy and plans, including public relations philosophy and practice, and information aspects of unusual incidents, stressing the case-study approach; applied journalism, with performance skills in all tasks required to publish a service newspaper; research communications, stressing preparation of the information specialist for public speaking, speech writing, briefings, and group discussions; radio and television, including training in writing, announcing, and producer staff functions; internal relations and government, stressing the U.S. international position in terms of world patterns.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in mass media (12/73); in the upper-division baccalaureate category, 2 semester hours in Journalism (12/73); in the communications core studies. 1 in oral communications, and credit in journalism on the basis of institutional evaluation (12/68).
I1-10 COURSE EXHIBITS

DD-0504-0005

TROOP INFORMATION AND EDUCATION

Enlisted

Course Number: 28-E-1.
Location: Defense Information School, Ft. Slocum, NY.
Length: 8 weeks (352 hours).
Exhibit Dates: 5/54-12/68.

Objectives: To train enlisted personnel to assist in the organization, operation, and supervision of troop information and education programs.

Instruction: Policies and operational procedures; speech preparation and presentation; discussion-leading techniques; organization of group study activities; testing principles; practical exercises in newsgathering and newswriting; troop information radio broadcasting; comprehensive study of citizenship, history, government, and international affairs; fundamentals of typewriting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social studies, 1 in mass communications (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in social studies, 1 in mass communications (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in oral communications (12/68).

DD-0504-0006

TROOP INFORMATION AND EDUCATION

Officer

Course Number: 28-O-6.
Location: Defense Information School, Ft. Slocum, NY.
Length: 8 weeks (352-360 hours).
Exhibit Dates: 5/54-12/68.

Objectives: To train officers to supervise instruction periods and other activities of the Army's troop information and education programs.

Instruction: Policies and procedures; speech preparation and presentation; discussion-leading techniques; organization of group study activities; instructor selection; testing procedures; advise ment principles; practical exercises in newsgathering and newswriting; troop information radio broadcasting; comprehensive study of citizenship, history, government, and international affairs.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social studies, 1 in journalism (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in social studies, 1 in journalism (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in journalism (12/68).

DD-0504-0007

PUBLIC INFORMATION OFFICER

Officer

Course Number: 28-O-5.
Location: Information School, Ft. Slocum, NY.
Length: 8 weeks (360 hours).
Exhibit Dates: 5/54-12/68.

Objectives: To train officers to perform and/or supervise the preparation of news stories, special articles, posters, photographs, radio and television programs, and other informational material for release to information media; to establish speakers bureaus; and to promote friendly relations with information media representatives and civilian communities.

Instruction: Policies and procedures; speech preparation and presentation; public speaking exercises; use of visual-mechanical aids; basic photographic techniques, including camera operation, film processing, photo printing, picture selection, film types and exposures, and picture story assignments; civilian press operation, organization, and philosophy; newswriting; preparation of material for radio and television broadcasts; public relations activities.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social studies, 1 in mass media (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in social studies, 1 in mass media (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in oral communications (12/68).

DD-0504-0008

PUBLIC INFORMATION OFFICER

Course Number: 28-E-2.
Location: Information School, Ft. Slocum, NY.
Length: 8 weeks (360 hours).
Exhibit Dates: 4/54-12/68.

Objectives: To train enlisted personnel to collect, prepare, and disseminate information to newspapers, magazines, radio, television, and other informational media, and to assist in promotion of other public relations activities.

Instruction: Policies and procedures; speech preparation and presentation; public speaking exercises; use of visual-mechanical aids; basic photographic techniques, including camera operation, film processing, photo printing, picture selection, film types and exposures, and picture story assignments; civilian press operation, organization, and philosophy; newswriting and related activities; preparation of material for radio and television broadcasts; citizenship, government, history, and international affairs; typing.

Credit Recommendation: In the vocational certificate category, 2 semester hours in social studies, 1 in mass media (12/73); in the upper-division baccalaureate/associate degree category, 2 semester hours in social studies, 1 in mass media (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in oral communications (12/68).

DD-0504-0010

SHIPBOARD INFORMATION, TRAINING AND ENTERTAINMENT (SITE) SYSTEM OPERATOR'S (TELEVISION AFOAT)

Course Number: A-570-0010.
Location: Defense Information School, Ft. Benjamin Harrison, IN.
Length: 2 weeks (81 hours).
Exhibit Dates: 10/76-Present.

Objectives: To train officers to perform the duties and functions of site shipboard information, training, and entertainment system operators/administrators.

Instruction: Topics include administration, logistics, scheduling, supply, and equipment familiarization.

Credit Recommendation: Pending evaluation.

DD-0504-0011

INFORMATION OFFICER (RESERVE COMPONENT)

Course Number: 7G-F3 (RC).
Location: Defense Information School, Ft. Benjamin Harrison, IN.
Length: 2 weeks (69 hours).
Exhibit Dates: 6/72-Present.

Objectives: To train reserve officers in the duties and functions of military information/public affairs officers in a mobilization or reserve component assignment.

Instruction: Topics include administration, logistics, scheduling, supply, and equipment familiarization.

Credit Recommendation: Pending evaluation.
Department of Defense

DD-0505-0001

1. INFORMATION SPECIALIST (BROADCASTER)

2. INFORMATION SPECIALIST (BROADCASTER)

3. BROADCAST SPECIALIST (RADAR AND TELEVISION PRODUCTION SPECIALIST)


Location: Defense Information School, Ft. Benjamin Harrison, IN; Defense Information School, Ft. Slocum, NY.


Objectives: To train selected enlisted personnel to perform as broadcasters for military radio outlets.

Instruction: Lectures and practical experience in applied journalism, including news-gathering, motion picture operation and editing, speech and research training; intensive indoctrination in radio and television, including programming, writing, operation, logs, control room, TV production, broadcast regulations, and appropriate examinations; and study of international relations.

Credit Recommendation: Pending evaluation.

DD-0602-0001

DEFENSE LANGUAGE INSTITUTE BASIC COURSES (1954–1956)

(Albanian) (Arabic) (Bulgarian) (Chinese—Cantonese) (Chinese—Mandarin) (Czech) (Danish) (French) (German) (Hungarian) (Italian) (Japanese) (Korean) (Norwegian) (Persian) (Polish) (Portuguese) (Romanian) (Russian) (Serbo-Croatian) (Spanish) (Swedish) (Turkish) (Vietnamese—Hanoi dialect) (Vietnamese—Saigon dialect)

Course Number: None.

Location: Army Language School, Presidio of Monterey, CA.

Length: 23–46 weeks.

Exhibit Dates: 1/54–12/56.

Objectives: To train officers and enlisted personnel in the interpretation or translation of a foreign language, and to provide basic military, geographic, economic, historical, and political information about the country or area in which the language is spoken. (These area studies are taught in the foreign language.)

Instruction: Lectures, discussions, and oral drills on the language of a foreign country and basic military, geographic, economic, historical, and political information about the country and the language spoken. While these courses are listed as Basic, it should be understood that this is the terminology used by the armed forces to indicate that the courses are their 'regular' programs in the various languages. They are not limited to what most civilian institutions would term beginning or basic courses in a language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Location</th>
<th>Length</th>
<th>Language(s)</th>
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<tbody>
<tr>
<td>DD-0602-0003</td>
<td>West Coast Branch, Monterey, CA.</td>
<td>23-50 weeks</td>
<td>Albanian, Arabic, Bulgarian, Burmese, Chinese—Mandarin, Czech, French, German, Hungarian, Indonesian, Japanese, Korean, Persian, Polish, Portuguese, Russian, Russian Stenotype, Serbo-Croatian, Spanish, Turkish, Vietnamese—Hanoi Dialect</td>
</tr>
<tr>
<td>DD-0602-0004</td>
<td>West Coast Branch, Monterey, CA.</td>
<td>6-24 weeks</td>
<td>Arabic, French, German, Greek, Indonesian, Italian, Japanese, Korean, Persian, Portuguese, Romanian, Spanish, Thai, Vietnamese—Saigon Dialect</td>
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**Defence Language Institute Aural Comprehension Courses**

<table>
<thead>
<tr>
<th>Category</th>
<th>Language(s)</th>
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<tbody>
<tr>
<td>Basic</td>
<td>Albanian</td>
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<td>Chinese—Mandarin</td>
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<td>Russian Stenotype</td>
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<td>Serbo-Croatian</td>
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<td>Spanish</td>
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<td>Thai</td>
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<td>Turkish</td>
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<td>Vietnamese—Hanoi Dialect</td>
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</table>

**Emergency Instruction**

<table>
<thead>
<tr>
<th>Language(s)</th>
<th>Description</th>
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<tbody>
<tr>
<td>Arabic</td>
<td>Instruction: Lectures, discussions, and oral drills in the interpretation and translation of the designated language, and additional training in the basic military, geographic, economic, historical, and political information about the country and/or area in which the language is spoken. Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, and to provide background training in the designated language, and to provide basic military, geographic, economic, historical, and political information about the country and/or area in which the language is spoken. Names: Ese Toishan, Ese Cantonese, Ese Canarian, Ese Etlan, Ese Etlan Dialect, Ese Etlan Dialect (French), Ese Etlan Dialect (German), Ese Etlan Dialect (Hungarian), Ese Etlan Dialect (Indonesian), Ese Etlan Dialect (Japanese), Ese Etlan Dialect (Korean), Ese Etlan Dialect (Persian), Ese Etlan Dialect (Polish), Ese Etlan Dialect (Portuguese), Ese Etlan Dialect (Romanian), Ese Etlan Dialect (Russian), Ese Etlan Dialect (Russian Stenotype), Ese Etlan Dialect (Serbo-Croatian), Ese Etlan Dialect (Spanish), Ese Etlan Dialect (Turkish), and Ese Etlan Dialect (Vietnamese—Hanoi Dialect)</td>
</tr>
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</table>

**Credit Recommendation for Aural Comprehension Courses**

- **Basic Courses**: Credit recommended for a 37-week course is based primarily upon the higher reading and writing content in those courses recommended for 15 and 18 semester hours. The 50-week Russian Stenotype Course includes the regular 37-week Russian Aural Comprehension Course and 13 weeks of stenotype training. Also: The credit recommended for the program is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defence Language Institute are listed in accordance with their level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Swahili); (2) languages of greater difficulty, but with more necessary writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Chinese, Japanese, Korean, Russian, Turkish, Ukrainian, and Vietnamese); and (3) the most difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).
Basic Courses, although not as long as the Aural Comprehension Courses in the same language, are charged at the same credit recommendations. The difference in these recommendations can be attributed to the fact that the Short Basic Courses are more academically oriented than the Aural Comprehension Courses (i.e., they have a higher reading and writing content).

Credit Recommendation: In the lower-division category, French/associate degree category, extending into the upper-division baccalaureate category, 8 semester hours in ARABIC for the 12-week course; 8 in FRENCH for the 12-week course; 8 in GERMAN for the 12-week course; 8 in the 16-week course; 8 in CHINESE-MANDARIN for the 24-week course; 8 in FRENCH for the 24-week course; 8 in GERMAN for the 24-week course; 8 in PORTUGUESE for the 24-week course; 8 in VIETNAMESE for the 24-week course. NOTE: The credit recommended for these programs is based, not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with their level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Russian, Spanish, Swedish, and Swahili); (2) less difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean); (3) the more difficult languages where the reading problem is not as severe (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (4) languages for which the reading problem is complex (Arabic, Chinese, Japanese, and Korean).

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Difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Russian, Spanish, Swedish, and Swahili), all of which are considered to be of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is not as severe (Arabic, Chinese, Japanese, and Korean).

DD-0602-0006
DEFENSE LANGUAGE INSTITUTE
INTERMEDIATE COURSES

(Arabic)
(Bulgarian)
(Chinese--Mandarin)
(Czech)
(French)
(German)
(Korean)
(Polish)
(Romanian)
(Russian)
(Serbo-Croatian)
(Spanish)
(Vietnamese)

Course Number: None
Location: West Coast Branch, Presidio of Monterey, CA.
Length: 16-37 weeks.
Exhibit Dates: 1/54-Present.
Credit: The Intermediate Courses at the West Coast Branch are a continuation of the Basic Courses with the objective of reaching a higher level of general language ability in all four language skills.

Instruction: Whereas in the Basic Course the audio-lingual skills were stressed, equal emphasis is put on all four language skills in the Intermediate Course. Pronunciation is expected to undergo considerable refinement, as is the size of the student's vocabulary. Fluency in reading is developed to the point of direct comprehension of the printed page. Proficiency in writing includes mastery of forms, such as official, business, and social correspondence. Equal in importance to language competence is the breadth of area knowledge. The Intermediate Course treats in considerable depth all facets of the country's contemporary civilization, together with a good portion of the historical development of the area.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 40 semester hours in CHINESE-MANDARIN for the 74- to 75-week course; 15 in GERMAN for the 24-week course; 40 in JAPANESE for the 74- to 75-week course; 18 in KOREAN for the 74- to 75-week course; 18 in RUSSIAN for the 74- to 75-week course; 18 in VIETNAMESE for the 74- to 75-week course. In the graduate category, 6 semester hours in CHINESE-MANDARIN for the 74- to 75-week course; 6 in JAPANESE for the 74- to 75-week course; 6 in KOREAN for the 74- to 75-week course; and 6 in RUSSIAN for the 74- to 75-week course. NOTE: The credit recommended for the programs is based not only upon the type of course given, but also upon the difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with their level of difficulty as follows: (1) the least


1-14

COURSE EXHIBITS

Week course; 18 in POLISH for the 36-week course; 15 in ROMANIAN for the 24-week course; 18 in RUSSIAN for the 37-week course; 18 in SERBO-CROATIAN for the 37-week course; 15 in SPANISH for the 24-week course; 18 in VIETNAMESE for the 37-week course (874). NOTE: The credit recommended for the programs is based not only upon the type of course given, but also upon the relative difficulty of the language studied. The various languages given by the Defense Language Institute are listed in accordance with their level of difficulty as follows: (1) the least difficult languages for the English-speaking learner (Danish, French, German, Italian, Norwegian, Portuguese, Romanian, Spanish, Swedish, and Welsh); (2) languages of greater difficulty, but with alphabetical writing systems which may be learned concurrently without appreciably affecting the progress in learning the spoken language (Albanian, Bulgarian, Burmese, Czech, Finnish, Greek, Hungarian, Indonesian, Lithuanian, Persian, Polish, Russian, Serbian-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0007

DEFENSE LANGUAGE INSTITUTE SPECIAL COURSES

(Scientific Russian)

Course Number: None.

Location: West Coast Branch, Presidio of Monterey, CA.

Length: (9-12) weeks.

Exhibit Dates: 1/54-Present.

Objectives: The objective of the Scientific Course is to train military personnel to read and translate Russian technical and scientific publications and to speak and understand conversational Russian to a limited extent. The Refresher Course is designed to enable personnel to regain a basic competence in comprehension of the standard literary language.

Instruction: The Scientific Course includes instruction in Russian phonology and writing systems; oral exercises in elementary speech patterns; Russian structural patterns; reading practice; problems in lexicology; identification of Russian words and cognates, and scientific terminology. The Refresher Course provides an accelerated, systematic review of grammar and vocabulary.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, or in the upper-division baccalaureate category, credit in scientific Russian or Russian (refresher) is based on the basis of institutional evaluation (8/74).

DD-0602-0009

DEFENSE LANGUAGE INSTITUTE COURSES—EAST COAST BRANCH

(Arabic)

(Czech—Mandarin)

(French)

(German)

(Italian)

(Portuguese)

(Russian)

(Spanish)

(Turkish)

(Vietnamese—Hanoi Dialect)

(Vietnamese—Saigon Dialect)

Course Number: None.

Location: East Coast Branch, Washington, DC.

Length: 8-61 weeks.

Exhibit Dates: 1/54-Present.

Objectives: The Intensive Courses are designed to make military personnel thoroughly familiar in the speaking, understanding, reading, and writing of a foreign language; the shorter courses are designed to give students a limited command of the language.

Instruction: Lectures, discussions, and oral drills in the speaking, understanding, reading, and writing of a foreign language, with additional training in area studies, including the geography, history, politics, economics, government, social structure, and military situations pertaining to the area.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, credit in the lower-division baccalaureate category (Arabic, Chinese, Japanese, and Korean); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0010

DEFENSE LANGUAGE INSTITUTE SUPPORT OF COMMAND COURSES

(Basic Vietnamese—Saigon Dialect)

(Aural Comprehension Vietnamese—Hanoi Dialect)

(Short Basic Vietnamese—Saigon Dialect)

Course Number: None.

Location: Biggs Field, El Paso, TX.

Length: 1-14 weeks.

Exhibit Dates: 1/54-Present.
Objectives: The Basic Course provides personnel with training in the interpretation and translation of the designated language, as well as basic military, geographic, economic, political, and cultural information about the area in which the language is spoken; the Aural Comprehension Course is designed primarily to teach students to comprehend the language spoken by a foreign national; the Short Basic Course is an accelerated version of the Basic Course.

Instruction: Lectures, discussions, and oral drills in the designated language. Basic Course: The term, "basic" as used by the military, indicates a "regular" course in the language; i.e., the Basic Course is not limited to what most civilian institutions would term beginning or basic courses in the language. Aural Comprehension Courses do not place equal stress on the four language skills, they are recommended for less credit than the Basic Course. Short Basic Course: Although some reading and writing is included, the spoken language is emphasized. Basic and Aural Comprehension Courses.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in the same material covered in the Basic Course.

Course Number: None.
Location: Department of Defense Computation Institute, Ft. Meade, MD.
Length: 4 weeks (80 hours).
Exhibit Dates: 8/74-Present.
Objectives: To provide personnel with an introduction to computer hardware, software, and system software.

Instruction: Lectures and practical exercises in automation and computer technology, including survey of computers and peripheral equipment, computer fundamentals, source data collection, data communications, main memory and data representation, coding, fixed-word-length machine concepts, higher-level languages, and ADP system management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing (7/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in introduction to computer principles (12/68).

Course Number: None.
Location: Department of Defense Computation Institute, Washington, DC.
Length: 2 weeks (65 hours).
Exhibit Dates: 8/77-Present.
Objectives: Course is designed to provide an educational background for middle-management personnel with an awareness of digital computer systems users and have had little or no previous introduction to data processing principles.

Instruction: Course covers computer capabilities, limitations and applications; the basics of computer hardware and software; system development management considerations; planning and design, and an introduction to operations research and analytical techniques. The student is provided hands-on programming experience with a remote, time-sharing computer terminal using the BASIC programming language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles (5/77).

Department of Defense

National Cryptologic School Resident Language Courses

(Basic Chinese—Refresher)
(Basic English—Refresher)
(Basic Indonesian—Refresher)
(Basic Vietnamese—Refresher)

Course Number: None.
Location: National Cryptologic School, Ft. Meade, MD.
Length: 9-12 weeks.
Exhibit Dates: 1/54-Present.
Objectives: The 12-week Refresher courses are designed to enable personnel to acquire basic competence in comprehension of the standard literary form of the language, and an accelerated systematic review of grammar and vocabulary. (A basic course in the language is assumed as a prerequisite), the 30-week Basic Vietnamese course is designed to teach personnel the grammar and vocabulary necessary for a basic comprehension of the standard literary language with emphasis on a thorough understanding of structure.

Instruction: Refresher Courses: Phonology, writing system, basic vocabulary of economic, political, and military terms. Basic Vietnamese: In addition to the preceding instruction, this course includes grammar (morphology, derivation, and syntax).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in the same material covered in the Basic Course.

Course Number: None.
Location: Department of Defense Computation Institute, Washington, DC.
Length: 2 weeks (65 hours).
Exhibit Dates: 8/77-Present.
Objectives: Course is designed to provide an educational background for high-level management personnel who are general-purpose digital computer systems users and have had little or no previous introduction to data processing principles.

Instruction: Course covers computer capabilities, limitations and applications; the basics of computer hardware and software; systems development management considerations; planning and design, and an introduction to operations research and quantitative techniques. The student is provided hands-on programming experience with a remote, time-sharing computer terminal using the BASIC programming language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles (5/77).

Computer Orientation for Interim -Executives

Course Number: None.
Location: Department of Defense Computation Institute, Washington, DC.
Length: 2 weeks (65 hours).
Exhibit Dates: 8/77-Present.
Objectives: Course is designed to provide an educational background for high-level management personnel who are general-purpose digital computer systems users and have had little or no previous introduction to data processing principles.

Instruction: Course covers computer capabilities, limitations and applications; the basics of computer hardware and software; systems development management considerations; planning and design, and an introduction to operations research and quantitative techniques. The student is provided hands-on programming experience with a remote, time-sharing computer terminal using the BASIC programming language.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles (5/77).

National Security Management

Correspondence Course of the

Industrial College of the Armed Forces

Course Number: None.
Location: Industrial College of the Armed Forces, Ft. Leslie J. McNair, Washington, DC.
Length: 12-16 weeks.
Exhibit Dates: 5/71-Present.
Objectives: To train officers in economic and industrial aspects of national security and the management of resources under all conditions and in the context of national and world affairs.

Instruction: Individualized readings and student research in economic and industrial aspects of national security and the management of resources under all conditions and in the context of national and world affairs, divided into four four-hour credit blocks as follows: (1) Includes the national security structure, the environment of national security, the world in ferment, national urban problems, and the public utilities (gas, electricity, and telecommunications). (2) Includes economics policies for national strength, emergency, economic stabilization, U.S. foreign economic policies, defense, and management, and economic policies for national defense, and military systems. (3) Includes defense and national security, the national assets of science and technology, production for defense, procurement, supply management, and national aerospace programs.

Credit Recommendation: In the upper-division baccalaureate category, for students who complete the program with DISTINCTION—or based on the admitting institution's evaluation of the applicant's work—3 semester hours in political science (The U.S. in Contemporary World Affairs), 3 in social science (The Social and Economic Bases of the U.S. National Security), 3 in management (Defense Policy and Management) (8/74); in the graduate degree category, 3 semester hours for completion of the entire program with DISTINCTION—or based on the admitting institution's evaluation of the applicant's work (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Recommendations of credit are maximum figures. The number of semester hours actually accepted for transfer depends upon the applicant's future goals and the regulations of the admitting institution on transfer credit.

National War College

Course Number: None.
INDUSTRIAL COLLEGE OF THE ARMED FORCES (RESIDENT PROGRAM)

Course Number: None.

Location: Industrial College of the Armed Forces, Ft. Leslie J. McNair, Washington, DC.

Length: 43 weeks.


Objectives: To train officers in the political, military, social, economic, and industrial aspects of national security, in resource management, and in national and world affairs.

Instruction: Lectures, practical exercises, seminars, readings, field studies, student research in the political, military, social, economic, and industrial aspects of national security, in resource management, and in national and world affairs.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 3 semester hours in political science, OR the applicant's field of study (8/74). Version 2: In the upper-division baccalaureate category, 3 semester hours in political science (8/74). Version 3: In the upper-division baccalaureate category, 3 semester hours in political science (8/74). Version 4: In the upper-division baccalaureate category, 3 semester hours in political science (8/74). Version 5: In the upper-division baccalaureate category, 3 semester hours in political science (8/74). Version 6: In the upper-division baccalaureate category, 3 semester hours in political science (8/74).

DD-1511-0003

POSTGRADUATE INTELLIGENCE COURSE (DEFENSE INTELLIGENCE COURSE)

1. POSTGRADUATE INTELLIGENCE COURSE

DEFENSE INTELLIGENCE COURSE

Course Number: None.

Location: Defense Intelligence School, Naval Station (Anacostia Annex), Washington, DC.

Length: Version 1: 33 weeks (1325 hours); Version 2: 38 weeks (1425-1504 hours).


Objectives: To train officers in intelligence operations and techniques, and management, concepts and techniques as they apply to intelligence resources, processes, and information systems, OR in intelligence procedures, operations, and structures as they relate to international action.

Instruction: Lectures, practical exercises, readings, and individualized study in intelligence operations and techniques, and management concepts and techniques as they apply to intelligence resources, processes, and information systems, at various levels.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 12 semester hours in political science (including international relations), 12 in business administration, 3 in recent history, 6 in economics, 3 in geography, 3 in international relations or political science (8/74). Version 2: In the upper-division baccalaureate category, 12 semester hours in political science, 9 in business administration, 3 in recent history, 3 in economics, 3 in geography, 3 in general physics, 3 in mathematics (12/68). Version 4: In the upper-division baccalaureate category, 12 semester hours in political science (including international relations), 6 in business administration, 3 in recent history, 3 in economics, 3 in geography (12/68). Version 5: In the upper-division baccalaureate category, 12 semester hours in political science (including international relations), 6 in business administration, 3 in recent history, 3 in economics, 3 in geography (12/68). Version 6: In the upper-division baccalaureate category, 15 semester hours in political science (including international relations), 3 in business organization and management, 3 in recent and contemporary history (12/68).
DD-1511-0005  
INTER-AMERICAN DEFENSE COLLEGE  
Course Number: None.  
Location: Inter-American Defense College, Ft. Leslie J. McNair, Washington, D.C.  
Length: 52 weeks.  
Exhibit Dates: 7/65-Present.  
Objectives: To function as a military institution for advanced studies, with the purpose of preparing military personnel and civilian officials of the American States through the study of the Inter-American System and the political, social, economic and military factors that constitute essential elements for the defense of the hemisphere.  
Instruction: The curriculum includes a review of basic theoretical topics in the classical areas of power and general studies of the current world situation, thus providing the student with an analytical and critical perspective of the inter-relationship of the economic, political and military factors. The students learn and practice the group discussions, the group process, the role of inter-group relations, and the leadership functions in groups.  
Credit Recommendation: In the graduate degree category, 6 semester hours in international relations for students rated "very good" or "outstanding" (117/76).  

DD-1512-0001  
DEFENSE RACE RELATIONS INSTITUTE  
Course Number: None.  
Location: Defense Race Relations Institute, Patrick AFB, FL.  
Length: Version 1: 7-11 weeks (1184-425 hours); Version 2: 27 weeks (205 hours).  
Objectives: To provide students with a four-week intensive program on inter-group relations, cultural specificity, and an awareness of those processes that form social opinion. The program is designed to prepare the participants as instructors in peace relations and to provide them with management, planning and applications skills needed in maintaining effective institutional human relations programs.  
Instruction: Version 1: Lectures, seminars, simulations, interactional techniques, case studies and field laboratory (inner-city visitation) in the theory and practice of human relations and the application and management of human relations programs. The program takes a multidisciplinary approach to minority and behavioral studies and instructional methodology.  
Credit Recommendation: In the upper-division baccalaureate category, 18 semester hours in social and behavioral science, to be assigned among the following subject areas: applied psychology, group dynamics, intergroup relations, communications theory, history of minorities and ethnic groups, and instructional methodology (5/76); in the graduate degree category, 9 semester hours in social and behavioral science, to be assigned among the following subject areas: applied psychology, group dynamics, intergroup relations, communications theory, history of minorities and ethnic groups, and instructional methodology (5/76).  

DD-1601-0001  
BASIC PHOTOGRAMMETRIC CARTOGRAPHIC TECHNIQUES  
Course Number: 411-204.  
Location: Defense Mapping School, Ft. Belvoir, VA.  
Length: 9 weeks (293 hours).  
Exhibit Dates: 5/72-Present.  
Objectives: To train enlisted personnel in the compilation and revision of cartographic maps and photomaps, including compilation base and map revision, aerial photo mosaic, color separation, maintenance of cartographic equipment and facilities, DMA topographic center identification, construction of controlled photomosaic, transfer of revision data to compilation base, and delineation of aerial photography.  
Credit Recommendation: In the vocational certificate category, 6 semester hours in map and mosaic making (5/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in map and mosaic making (5/74); in the upper-division baccalaureate category, 3 semester hours in map and mosaic making (5/74).  

DD-1601-0002  
GEODETIC SURVEYING  
Course Number: 412-101.  
Location: Defense Mapping School, Ft. Belvoir, VA.  
Length: 10 weeks (376 hours).  
Exhibit Dates: 12/73-Present.  
Objectives: To train enlisted personnel in geodetic surveying.  
Instruction: Lectures and practical exercises in geodetic surveying, including the establishment of ground survey control through differential leveling, gravity surveys, traverse, triangulation, and astronomic observation; mapping and charting in the support of weapons systems and other emergency situations; instruction in geodetic surveying, establishment of control, expedient road and landing-site planning, and construction of gravity survey data for theater-of-war operations.  
Credit Recommendation: In the vocational certificate category, 10 semester hours in plane and geodetic surveying (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in plane and geodetic surveying (5/74); in the upper-division baccalaureate category, 6 semester hours in plane and geodetic surveying (5/74).  

DD-1601-0003  
ADVANCED GEODETIC SURVEYING  
Course Number: 4M-710.  
Location: Defense Mapping School, Ft. Belvoir, VA.  
Length: 20 weeks (767 hours).  
Exhibit Dates: 12/73-Present.  
Objectives: To provide geodetic surveyors with training in advanced geodetic surveying techniques, including astronomical observations for longitude, latitude, and azimuth.
computing and adjusting geometric figures, directions, lengths, positions, and differences in elevation; precise instrumentation related to high-order surveys; orientation on analytical point positioning using photogrammetry; vertical control surveys; geodesy and gravity surveys; and map compilation and digital computers.

**DD-1601-0004**
**TERRAIN ANALYSIS**

*Course Number:* 491-101  
*Location:* Defense Mapping School, Ft. Belvoir, VA.  
*Length:* 11 weeks (378 hours)  
*Instruction:* Lectures and practical exercises in terrain analysis, including principles and techniques of terrain analysis, map reading and land navigation, basic photographic interpretation and cartographic principles; techniques for describing terrain, geologic and hydrologic concepts, amphibious operations planning; considerations, evaluation of terrain elements, base development and LOC planning considerations, engineer reconnaissance, engineer applications of photography, and applied terrain analysis.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 15 semester hours in advanced geodetic surveying (5/74); in the upper-division baccalaureate/associate degree category, 10 semester hours in advanced geodetic surveying (5/74).

**DD-1601-0005**
**ADVANCED PHOTOGRAMMETRIC CARTOGRAPHIC TECHNIQUES**

*Course Number:* 411-205  
*Location:* Defense Mapping School, Ft. Belvoir, VA.  
*Length:* 12 weeks (362 hours)  
*Instruction:* Lectures in the processing of photogrammetric-cartographic techniques.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 6 semester hours in terrain analysis (5/74); in the upper-division baccalaureate degree category, 4 semester hours in terrain analysis (5/74).

**DD-1601-0006**
**PHOTOGRAMMETRIC COMPUTATION**

*Course Number:* 412-102  
*Location:* Defense Mapping School, Ft. Belvoir, VA.  
*Length:* 11 weeks (378 hours)  
*Instruction:* Lectures and practical exercises in the principles and techniques of photogrammetric computation, including electronic calculators; map reading; computations in grid and declination grid conversion, and transformations; grid traverses and electronic distance measurements; grid triangulation, leveling, traverse, and triangulation; astronomic azimuth and position, and adjustment of geometric figures, directions, line length, and elevation difference from surveyor notes.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 12 semester hours in geodetic computations (5/74); in the upper-division baccalaureate category, 8 semester hours in geodetic computations (5/74).

**DD-1601-0007**
**MAPPING, CHARTING, AND GEODESY OFFICER**

*Course Number:* 4M-701  
*Location:* Defense Mapping School, Ft. Belvoir, VA.  
*Length:* 12 weeks (372 hours)  
*Instruction:* Lectures on the principles and techniques of photogrammetry and reproduction operations.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 9 semester hours in mapping, charting, and geodesy (5/74); in the upper-division baccalaureate category, 6 semester hours in mapping, charting, and geodesy (5/74).

**DD-1601-0008**
**CONSTRUCTION SURVEYING**

*Course Number:* 412-82920  
*Location:* Defense Mapping School, Ft. Belvoir, VA.  
*Length:* 14 weeks (362 hours)  
*Instruction:* Lectures on the principles and techniques of photogrammetric computation, including electronic calculators, map reading, route selection, one-minute theodolite, engineer transit, horizontal traverse, traverse layout, planimetric mapping, multiplex stereoplotter orientation, reducing, printing, stereocompilation, grid triangulation, triangulation, and geodesy.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 8 semester hours in photogrammetric interpretation (5/74).

**Credit Recommendation:** In the vocational certificate category, 10 semester hours in construction surveying (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in construction surveying (5/74); in the upper-division baccalaureate category, 6 semester hours in construction surveying (5/74).

**DD-1606-0001**
**NATIONAL SENIOR INTELLIGENCE**

*Course Number:* None  
*Location:* Defense Intelligence School, Washington, DC.  
*Length:* 14 weeks (560 hours)  
*Instruction:* Lectures on the processing and management of intelligence information, development and implementation of U.S. foreign policy, the national intelligence structure, and government agencies involved in foreign policy.

**Credit Recommendation:** In the upper-division baccalaureate category, 6 semester hours in international relations, public administration, or political science (1/74).

**DD-1706-0001**
**MULTILITH 1250 REPAIR**

*Course Number:* 690-621  
*Location:* Defense Mapping School, Ft. Belvoir, VA.  
*Length:* 2 weeks (80 hours)  
*Instruction:* Lectures on preventive maintenance and repair of the 1250 multilith, including mechanical adjustments necessary to maintain the operational capability of the 1250 multilith, normal operator adjustments, and preventive maintenance.

**Credit Recommendation:** In the vocational certificate category, 10 semester hours in construction surveying (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in construction surveying (5/74); in the upper-division baccalaureate category, 6 semester hours in construction surveying (5/74).
Credit Recommendation: In the vocational certificate category, 3 semester hours in multilith (5/74).

DD-1706-0002

REPRODUCTION EQUIPMENT REPAIR
Course Number: 690-620.
Location: Defense Mapping School, Ft. Belvoir, VA.
Length: 15 weeks (512 hours).
Exhibit Dates: 6/72-Present.
Objectives: To train enlisted personnel to operate, repair, and maintain reproduction equipment, including copy cameras, power paper cutters, paper folder-stitchers, and offset duplicating machines.

Instructor: Lectures and practical exercises in the operation and maintenance of reproduction equipment. Course includes the 24 X 30 copy camera, introduction to photolithography; repair parts supply, operational adjustments, aligning adjustments, repair procedures, maintenance of layout and platemaking equipment, repair of electrical components, repair and maintenance of power paper cutters, repair, maintenance, and timing of the offset duplicating machine, and the maintenance and repair of the bindery equipment and the paper folder and stitcher.

Credit Recommendation: In the vocational certificate category, 6 semester hours in cartographic drafting (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business machine repair (5/74).

DD-1713-0001

MAP Compilation
Location: Defense Mapping School, Ft. Belvoir, VA.
Length: 9 weeks (325 hours).
Exhibit Dates: 10/70-Present.
Objectives: To train enlisted personnel in the compilation and revision of planimetric maps, topographic maps, and photomaps, using drafting instruments and plotting devices.

Instructor: Lectures and practical exercises in the compilation and revision of planimetric, topographic, and photomaps, including compilation base and radial triangulation, map compilation and revision, aerial photography planning and mosaics, extraction of cartographic detail from aerial photographs, color separation, situation overlays and special studies, maintenance of cartographic equipment and facilities, and editing of color separation scribble sheets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in business machine repair (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business machine repair (5/74).

DD-1713-0002

CARTOGRAPHIC DRAFTING
Course Number: 411-201.
Location: Defense Mapping School, Ft. Belvoir, VA.
Length: 8 weeks (263 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train enlisted personnel to perform as cartographic draftsmen.

Instructor: Lectures and practical exercises in cartographic drafting. Topics include compilation base and radial triangulation, basic compilation and map revision, aerial photography, computerized execution and situation overlays and special studies.

Credit Recommendation: In the vocational certificate category, 8 semester hours in cartographic drafting (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in cartographic drafting (5/74).

Department of Defense

DD-1717-0002

OFFSET PRINTING
Course Number: 740-303.
Location: Defense Mapping School, Ft. Belvoir, VA.
Length: 8 weeks (276 hours).
Exhibit Dates: 11/73-Present.
Objectives: To train enlisted personnel to operate offset presses in the reproduction of maps, charts, and other printed line work.

Instructor: Lectures and practical exercises in offset printing. Topics include photolithography methods, methods of producing military maps, operation of photomechanical and photographic devices, maintenance of offset presses, controls, feeder and delivery assemblies, cylinder assembly, dampening assembly, linking assembly, printing practice, identification of printing problems, printing a "three-color" and "five-color" map, and modern "methods of lithographic offset press operations.

Credit Recommendation: In the vocational certificate category, 4 semester hours in graphic arts (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in graphic arts (5/74).

DD-1719-0003

LITHOGRAPHIC PHOTOGRAPHY
Course Number: 740-301.
Location: Defense Mapping School, Ft. Belvoir, VA.
Length: 8 weeks (296 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train enlisted personnel to operate copy cameras and related equipment.

Instructor: Lectures and practical exercises in fundamentals of copy photography, camera operation, film processing, exposure, filters, line and continuous-tone copying, halftone magenta screens, contact printing, diapositive glass plates, pictomaps, electronic contact printer, and preventive maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic lithography on the basis of institutional evaluation (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic lithography on the basis of institutional evaluation (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic lithography on the basis of institutional evaluation (5/74).

DD-1717-0004

OFFSET Duplicating EQUIPMENT OPERATOR
Course Number: 740-304.
Location: Defense Mapping School, Ft. Belvoir, VA.

Instructor: Lectures and practical exercises in the preparation and production of offset plates to be used in the lithographic printing process.

Credit Recommendation: In the vocational certificate category, 2 semester hours in graphics arts (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in graphics arts (5/74).
COURSE EXHIBITS

Length: 5 weeks (145 hours).
Exhibit Dates: 11/72-Present.

Objective: To train enlisted personnel in the operation and basic maintenance of the offset duplicator, camera processor, and platemaking equipment.

Instruction: Course includes: introduction to photolithography; training in the operation of the 3M MR-412 Camera Processor; operation of the A.B. Dick 675...Copier with Platemaker Converter; and training in the operation and maintenance of other processing equipment, including the A&M 1250 Nudie Duplicator, the A.B. Dick 350 Duplicator, the ATF Davidson 500 Duplicator, and the ATF Davidson Perfector Duplicator.

Credit Recommendation: In the vocational certificate category, 5 semester hours in offset duplicating equipment operation (6/74).

DD-1721-0001

OPTICAL SURVEY INSTRUMENT REPAIR
Course Number: 570-601.
Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 12 weeks (382 hours).
Exhibit Dates: 2/74-Present.

Objective: To train enlisted personnel to maintain and repair optical surveying and mapping instruments.

Instruction: Lectures and practical exercises in surveying and mapping instrument maintenance, adjustment, and repair, including abney level hand; dumpy level, telescopic alidade, transit, military level, one-minute and one-second theodolites, and survey tapes.

Credit Recommendation: In the vocational certificate category, 8 semester hours in optical survey instrument repair (5/74).

DD-1728-0001

INDUSTRIAL SECURITY SPECIALIST

Course Number: 5220-2.
Location: Defense Industrial Security Institute, Richmond, VA.


Objective: To provide industrial security specialists with training in defense industrial security.

Instruction: All Versions: Lectures and practical exercises in the history, management, application, and functions of the defense industrial security program, organization for security cognizance, laws and regulations, security hazards, applicable security resources, responsibilities of controlling officers, personnel, clearance programs, inspections, security education program, security arrangements, international aspects, and espionage. Version 1: This version emphasizes the security threat against the U.S. government and industry; facility protection programs; classified document control; electronic and physical security measures; communications security; vulnerabilities of and protective measures for automatic data-processing systems; emergency response planning and procedures. Audio-visual presentations.

Credit Recommendation: Version 1: In the upper-division baccalaureate/associate degree category, 1 semester hour in criminal justice or security administration, and management (1/77).

Version 2: In the vocational certificate category, 2 semester hours in criminology (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in criminology (5/74); in the upper-division baccalaureate category, 2 semester hours in criminology (5/74).

DD-1728-0002

INFORMATION SECURITY MANAGEMENT
Course Number: 5220.7.
Location: Defense Industrial Security Institute, Richmond, VA.

Length: 2 weeks (73 hours).
Exhibit Dates: 6/74-Present.

Objectives: To provide instruction on elements of the Defense Department Information Security Program, with particular emphasis on proper security classification and the safeguarding of classified information. Note: This course consists of two 1-week components, referred to separately as (1) Classification Management and (2) Safeguarding Classified Information. Recommended credit is for combined courses only.

Instruction: The security manager; organization for security; policies, objectives and management implementation; classification principles and problems; declassification and downgrading-markings and control of classified documents; communications security; bureaucratic processing; security; emergency planning; processing security violations and compromises.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in criminal justice or security administration and management (1/77).

MC-0419-0001

BASIC FREIGHT OPERATION

Course Number: None.
Location: Service Support School, C.P. Lejeune, NC; Supply School, C.P. Lejeune, NC.

Length: 12-17 weeks (414-590 hours).
Exhibit Dates: 7/58-S6/78.

Objectives: The trainee learns to inspect and supervise the operation, movement and maintenance of automotive vehicles.

Instruction: Lectures and practical exercises in the fundamentals of shipping and receiving; the capabilities of the transportation system; rules and regulations governing transportation; freight classification, regulation and storage; use of materials-handling equipment, including the forklift; use of the manual typewriter.

Credit Recommendation: In the vocational certificate category, 1 semester hour in freight handling (1/74).

MC-0419-0004

MOTOR TRANSPORT OFFICER LEADERSHIP (MOTOR TRANSPORT OFFICER ORIENTATION)

Course Number: None.
Location: Supply School, C.P. Lejeune, NC.


Objectives: To train officers to manage motor transport operations.

Instruction: Version 1: Includes supervision of vehicle maintenance operations with respect to scheduling cleaning, lubrication, and inspection. Familiarization with compression ignition and spark ignition engines. Version 2: Lectures and practical exercises in the operation and management of motor transport facilities. Course includes engine fundamentals, electrical systems, power trains, fuel systems, and maintenance.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 3 semester hours in automotive technology (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to automotive or transportation technology (7/74); in the upper-division baccalaureate category, 2 semester hours in introduction to automotive or transportation technology (7/74).
J: In the vocational certificate category, 2 semester hours in introduction to automotive or transportation technology (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to automotive or transportation technology (4/74).

MC-0602-0001
HIGH INTENSITY LANGUAGE TRAINING (VIETNAMESE)

Course Number: None.
Location: Marine Corps Schools, Quantico, VA.
Length: 6 weeks (222 hours).

Exhibit Dates: 8/67-12/70.

Objectives: To prepare selected Marine Corps, Educational Center graduates for duty in an area where the primary or secondary language is Vietnamese.

Instruction: Language patterns, lexical units, and fluency necessary to communicate effectively with a native speaker; background information on culture, history, and geography, development of a vocabulary for interaction in civic action programs and liaison.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in Vietnamese (12/68).

MC-0801-0001
NUCLEAR, BIOLOGICAL AND CHEMICAL WARFARE DEFENSE

Course Number: None.
Location: Recruit Depot, Parris Island, SC.
Length: 3 weeks (105 hours).

Exhibit Dates: 1/63-12/68.

Objectives: To train personnel for NBC defense responsibilities and instructional duties.

Instruction: Lectures and practical exercises on NBC defense, including monitor and survey teams, decontamination squads, nuclear warfare defense, biological warfare defense, chemical warfare defense, radiological weapons, protection, training and operations, types of nuclear bursts and effects, shielding of gamma radiation, blister and nerve agents, smoke and incendiary new developments in NBC equipment, and chemical decontamination.

Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

MC-0802-0001

1. PHYSICAL TRAINING INSTRUCTOR (MEN)
2. PHYSICAL TRAINING INSTRUCTOR

Course Number: None.
Location: Development and Education Command, Quantico, VA.


Objectives: To train enlisted personnel as instructors for close-combat and physical training.

Instruction: Lectures and practical exercises in the skills necessary to be an instructor in combat and physical training. Course provides comprehensive classroom instruction, in structural and functional kinesiology, and the principles of physical training.

Credit Recommendation: Version 1: In the vocational certificate category, 4 semester hours in anatomy and physiology, 2 in physical education methods (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in anatomy and physiology, 2 in physical education methods (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and physiology, 2 in physical education methods (7/74); in the upper-division baccalaureate category, credit in principles of physical training on the basis of institutional evaluation (12/68). Version 2: In the vocational certificate category, 4 semester hours in anatomy and physiology, 2 in physical education methods (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in anatomy and physiology, 2 in physical education methods (7/74); in the upper-division baccalaureate category, 2 semester hours in anatomy and physiology, 2 in physical education methods (7/74); in the upper-division baccalaureate category, 2 semester hours in anatomy and physiology, 2 in physical education methods (7/74).

MC-0802-0002
SURVIVAL, EVASION, RESISTANCE TO INTERROGATION AND ESCAPE (SERE) (EVASION, ESCAPE AND SURVIVAL TRAINING)

Course Number: None.
Location: Mountain Warfare Training Center, Bridgeport, CA.
Length: 4 weeks (169-172 hours).

Exhibit Dates: 5/66-12/68.

Objectives: To train personnel in the practical techniques of survival, escape, resistance to interrogation, and evasion.

Instruction: Lectures and practical exercises to include land navigation, physical preparation, Communist indoctrination and interrogation techniques, resistance to Communist interrogation techniques, and prisoner organization and resistance.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in woodcraft and survival training (5/74).

MC-0802-0003
AMMUNITION HANDLERS

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 6 weeks (180 hours).

Exhibit Dates: 7/56-12/68.

Objectives: To train personnel to safely handle, store, transport, and dispose of ammunition.

Instruction: Lectures and practical exercises in small arms ammunition, hand and rifle grenades, small arms and mortar ammunition, pyrotechnics, demolitions, ground rockets and guided missiles, aircraft munitions, mines and demining devices, flamethrowers, fuels, ammunition disposal, ammunition storage and inspection, and renovation and malfunctions.

Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-0802-0004
AMMUNITION TECHNICIAN

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 10 weeks (420 hours).

Exhibit Dates: 7/54-12/68.

Objectives: To train noncommissioned officers in ammunition techniques.

Instruction: Lectures and practical exercises in fundamentals of ammunition, small arms ammunition, artillery and mortar ammunition, demolitions, aircraft munitions, land mines and firing devices, ammunition storage, ammunition supply administration, and field storage of ammunition.

Credit Recommendation: In the vocational certificate category, 6 semester hours in ammunition and physical training (7/74).

MC-0802-0005
AMMUNITION TECHNICIAN (ADVANCED)

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 5-8 weeks (192-327 hours).

Exhibit Dates: 7/60-12/68.

Objectives: To train personnel to supervise and manage an ammunition storage and handling facility.

Instruction: Lectures and practical exercises in sources of technical information, ammunition principles, ammunition material, ammunition supply procedures and allowances, detection, protection, and decontamination, inspection, surveillance, storage, transportation and disposal of ammunition, military explosives, and toxic chemical agents; and planning, establishing, and operating an ammunition unit.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in chemical technology (6/74).

MC-0802-0006
AMMUNITION TECHNICIAN (BASIC) (AMMUNITION TECHNICIAN)

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 5-9 weeks (192-360 hours).

Exhibit Dates: 7/57-Present.

Objectives: To train personnel in phases of ammunition handling.

Instruction: Lectures and practical exercises to include identification, reception, inspection, storage, transportation, and issuance of ammunition components, military explosives, and toxic chemical agents; disposal of serviceable ammunition, ammunition identification and terminology, technical reference materials; supply procedures; computation of allowances, and decontamination procedures and equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in chemical technology (5/74).

MC-0803-0001
CLOSE COMBAT INSTRUCTOR

Course Number: None.
Location: Physical Fitness Academy, Quantico, VA.
Length: 3 weeks (110 hours).

Exhibit Dates: 12/68-12/73.

Objectives: To train Marine Corps personnel in close-combat tactics and techniques.
COURSE EXHIBITS

Instruction: Practical study in kinesiology and military combat techniques, martial
sports, instructor training, individual conditioning, and armed and unarmed combat.
Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 1 semester hour in physical edu-
cation (2/74); in the upper-division bacca-
laureate category, 1 semester hour in
physical education (2/74).

MC-0803-0002

WATER SAFETY/SURVIVAL INSTRUCTOR
Course Number: 562.
Location: Physical Fitness Academy,
Education Center, Quantico, VA.
Length: 3 weeks (100 hours).
Exhibit Dates: 2/72-12/73.
Objectives: To qualify personnel as
Marine Corps water survival instructors
and American Red Cross water safety instruc-
tors.
Instruction: Lectures and practical exer-
cises in safety procedures and problem
areas, water survival skills, and teaching
techniques.
Credit Recommendation: In the voca-
tional certificate category, 1 semester hour in
swimming, 1 in physical education (5/74);
in the lower-division baccalaureate/asso-
ciate degree category, 1 semester hour in
swimming, 1 in physical education; in the
upper-division baccalaureate category, 1
semester hour in physical education (5/74).

MC-0803-0003

COLD WEATHER FIELD INDUCTION TRAINING
(COLD WEATHER FIELD INDUCTION TRAINING FOR FMF CADET AND RESERVISTS)
Course Number: None.
Location: Cold Weather Training Center,
Bridgeport, CA.
Length: 3 weeks (130 hours).
Exhibit Dates: 1/59-12/68.
Objectives: To provide enlisted personnel
with survival and combat training in deep
snow and cold environments.
Instruction: Lectures and practical exer-
cises in shelters and bivouacs, use of water
and rations, over-snow movements, skiing,
and pick-up operations.
Credit Recommendation: No credit
because of the military nature of the course
(12/68).

MC-0803-0004

MOUNTAIN OPERATIONS (MILITARY SKIING)
Course Number: None.
Location: Mountain Warfare Training Center,
Bridgeport, CA.
Length: 5 weeks (213 hours).
Exhibit Dates: 3/65-12/68.
Objectives: To train infantry units and recon-
naisance personnel to operate in mountainous terrain.
Instruction: Lectures and practical exer-
cises in physical training and conditioning,
weight, and equipment maintenance.
Credit Recommendation: In the upper-
division baccalaureate category, 2 semester hours in
outdoor survival training (12/68).

MC-0803-0005

MOUNTAIN OPERATIONS (ROCK CLIMBING)
Course Number: None.
Location: Mountain Warfare Training Center,
Bridgeport, CA.
Length: 7 weeks (283 hours).
Exhibit Dates: 3/65-12/68.
Objectives: To train infantry units and recon-
naisance personnel to operate in mountainous terrain.
Instruction: Lectures and practical exer-
cises in mountain operations, man packs, rocks and
ice characteristics, camping and bivouac selection, and mountain walking and
route selection.
Credit Recommendation: In the upper-
division baccalaureate category, 2 semester hours in
camping and survival training (12/68).

MC-0804-0001

MARINE CORPS SPECIAL SERVICES TRAINING
Course Number: None.
Location: Development and Education
Command, Quantico, VA.
Length: 2 weeks (52 hours).
Exhibit Dates: 9/72-Present.
Objectives: To train selected enlisted per-
sonnel to supervise recreational activities.
Instruction: Lectures and practical exer-
cises in the administration of recreational
activities and funds. Course includes acquisition
and control of recreational facilities, property and funds; administration
of insurance and sports, entertain-
ment, and other recreational programs.
Credit Recommendation: In the voca-
tional certificate category, 1 semester hour in
recreation administration (8/74); in the
lower-division baccalaureate/associate degree
category, 1 semester hour in recreation
administration (8/74).

MC-1205-0001

FIELD MUSIC
Course Number: None.
Location: Marine Corps Recruit Depot,
Parris Island, SC; Marine Corps Recruit
Depot, San Diego, CA.
Length: 12-16 weeks (480-626 hours).
Exhibit Dates: 3/65-12/68.
Objectives: To train music students in
drum and bugle corps parade and
ceremonial functions.
Instruction: Lectures on care of bugle
and drum instruments; musical rudiments;
bugle calls and techniques; music writing;
drum techniques; history and duties of field
music; bugle ensemble music; and practical
exercises in bugle corps formations and
ceremonies.
Credit Recommendation: In the voca-
tional certificate category, credit in applied
music on the basis of institutional evalua-
tion (2/74); in the lower-division baccala-
ureate/associate degree category, 4 semester
hours in applied music (2/74).

MC-1205-0002

DRUM AND BUGLE CORPS
Course Number: None.
Location: Marine Corps Recruit Depot,
Parris Island, SC.
Length: 12 weeks (426 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train students as mus-
cians in a drum and bugle corps.

- Instruction: Lectures and practical appli-
cations in music theory, instrumental
techniques, and drill procedures; mainte-
nance of instruments, and writing of musical notations. scales, keys, signatures,
and triads.

Credit Recommendation: In the voca-
tional certificate category, credit in applied
music on the basis of institutional evalua-
tion (2/74); in the lower-division baccala-
ureate/associate degree category, 4 semester
hours in applied music (2/74).

MC-1401-0001

SUBSISTENCE SUPPLY MAN
Course Number: None.
Location: Service Support Schools, Cpl.
Lejeune, NC.
Length: 5 weeks (161 hours).
Exhibit Dates: 4/73-Present.
Objectives: To provide personnel with
training in food service accounting and
control procedures.
Instruction: Lectures and practical exer-
cises on subsistence supply accounting and
general mess accounting, including office
practices, learning the keyboard, Marine
Corps directives, system, calculator, sub-
sistence accounting procedures, introduc-
tion to subsistence supply, establishment of
financial status of mess and stock records,
determination of requirements and requis-
tions subsistence operational analysis,
general mess accounting and control procedures, and computation of rations and credits.
Credit Recommendation: In the voca-
tional certificate category, 2 semester hours
in clerical procedures, 3 in food cost con-
trol (7/77).

MC-1401-0002

GROUND SUPPLY OFFICER LEADERSHIP
Course Number: None.
Location: Service Support School, Cpl.
Lejeune, NC.
Length: 13 weeks (430 hours).
Exhibit Dates: 3/74-Present.
Objectives: To provide personnel with
knowledge required for operate as supervi-
sors of unit level supply functions.
Instruction: Lectures and practical exer-
cises in supply accounting, data processing,
control procedures, Marine Corps directives, supply systems management, and
service support leadership.
Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 2 semester hours in introduction
to data processing, 3 in supply management
(7/77).

MC-1402-0001

FUNDAMENTALS OF DIGITAL LOGIC
Course Number: None.
Location: Communication-Electronics
School, Twentynine Palms, CA; Communi-
cation-Electronics School, San Diego, CA.
Length: Version 1: 1-2 weeks (35-70
hours). Version 2: 3 weeks (117 hours).
Version 3: 5 weeks (117 hours).
Exhibit Dates: Version 1: 7/75-Present.
Version 2: 10/68-6/75, 10/68-6/75.
Objectives: To train personnel in the fun-
damental concepts of digital logic prepara-
tory to further training in the maintenance
of special devices.
In 1980, the Marine Corps offered a variety of courses related to computer programming and operation. These courses were designed to train personnel in various aspects of computer systems, including system design, operating systems, and programming languages. The courses were aimed at trainees at different levels, from enlisted personnel to officers in the programming and operations fields.

**MC-1402-0004 OPERATING SYSTEM PROGRAMMING**

- **Course Number:** None.
- **Location:** Quantico, VA.
- **Length:** 10 weeks (126-333 hours).
- **Objectives:** To train personnel having no prior data processing experience to operate and program disk computer systems.

**MC-1402-0005 SYSTEM 360 OPERATING SYSTEM**

- **Course Number:** None.
- **Location:** Quantico, VA.
- **Length:** 102 hours.
- **Objectives:** To provide enlisted personnel with introductory training in data processing.

**MC-1402-0006 SYSTEM 360 OPERATING SYSTEM**

- **Course Number:** None.
- **Location:** Quantico, VA.
- **Length:** 152 hours.
- **Objectives:** To train enlisted personnel as System 360 assembler language programmers.

**MC-1402-0007 SYSTEM 360 OPERATING SYSTEM—COBOL PROGRAMMING PHASE**

- **Course Number:** None.
- **Location:** Quantico, VA.
- **Length:** 123 hours.
- **Objectives:** To train enlisted personnel to write and debug COBOL programs.

**MC-1402-0008 SYSTEM 360 OPERATING SYSTEM—ASSEMBLER LANGUAGE PROGRAMMING PHASE**

- **Course Number:** None.
- **Location:** Quantico, VA.
- **Length:** 123 hours.
- **Objectives:** To train enlisted personnel as System 360 assembler language programmers.

**MC-1402-0009 SYSTEM 360 OPERATING SYSTEM—1401 PROGRAMMING**

- **Course Number:** None.
- **Location:** Quantico, VA.
- **Length:** 152 hours.
- **Objectives:** To train enlisted personnel to program IBM 1401 computers, using assembler languages.

These courses were developed to provide comprehensive training in computer systems, preparing personnel for roles in programming, operations, and system design within the Marine Corps.
MC-1402-0010
SYSTEMS ANALYSIS AND DESIGN (FUNCTIONAL)

Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 4 weeks (109-117 hours).
Exhibit Dates: 9/70-Present.

Objectives: To train enlisted personnel in the methodology of systems analysis and design.

Instruction: Lectures in systems theory, system model usage, systems approach in systems development, computer systems components, number systems, data communications concepts, flow charting, systems documentation and security, and management science techniques.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in systems analysis (6/75).

MC-1402-0011
IBM SYSTEM 360 (DOS) COBOL PROGRAMMING

Course Number: None.
Location: Quantico, VA.
Length: 9 weeks (258-310 hours).
Exhibit Dates: 8/73-Present.

Objectives: To train enlisted personnel as COBOL application programmers on the IBM disk operating system.

Instruction: Lectures on computer fundamentals, including a detailed examination of IBM operating systems and job control language; COBOL programming with American National Standard (ANS) for IBM System 360; including the sort verb and disk operating systems; and data management system (Mark IV). Coding convention differences between DOS, COBOL, and OS/360 and operating systems are covered. Major programs are written, debugged, and documented.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in computer programming, 1 in data processing fundamentals, 1 in computer operating systems (6/75).

MC-1402-0012
OPTICAL CHARACTER RECOGNITION (OCR) OPERATIONS

Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 2 weeks (45-60 hours).
Exhibit Dates: 6/74-Present.

Objectives: To train enlisted personnel to operate optical character recognition systems.

Instruction: Lectures and practical exercises in data processing introduction, Hollerith punch card code, flow charting, number systems, features and functions of the 3030 page reader, the 6200 computer, and the Lundy Farrington Optical Character reader, central processing unit operation, console typewriter, tape drives, scanner unit operating techniques, and Optical Program for Users System (OPUS) operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in unit record data processing (6/75).

MC-1402-0013
IBM SYSTEM 360 (OS) COBOL PROGRAMMING

Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: Version 1: Self-paced 8 weeks (287 hours).
Version 2: 8 weeks (228-280 hours).

Objectives: To train enlisted personnel as COBOL application programmers on the IBM System 360.

Instruction: All Versions: Lectures and practical exercises in American National Standard COBOL including the sort verb, computer programming introduction, IBM System 360 computer concepts, programming techniques, COBOL, coding, documentation conventions, IBM Operating System (OS) programming, job control language, and testing and debugging techniques. Version 1: Version is self-paced and uses structural approach to COBOL programming. Also covers ISAM file organization and OS system utilities.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 4 semester hours in computer programming, 1 in data processing (12/77). Version 2: In the upper-division baccalaureate category, 4 semester hours in computer programming, 1 in data processing fundamentals (6/75).

MC-1402-0014
AUTOMATIC DATA PROCESSING ORIENTATION

Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 2 weeks (53-65 hours).
Exhibit Dates: 9/70-Present.

Objectives: To train operators in systems analysis, automatic data processing equipment operation, and automated information systems management.

Instruction: Lectures in computer system fundamentals, information system development, interactive terminal facility usage, BASIC language and programming, remote teletype terminals usage, effective communication, A/D conversion and systems, hardware components, logical problem-solving methods and classical scientific management tools and techniques, and communication system development.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in data processing fundamentals (6/75).

MC-1402-0015
SYSTEMS PROGRAMMING

Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 7 weeks (141 hours).
Exhibit Dates: 9/70-Present.

Objectives: To train experienced personnel in COBOL programming.

Instruction: Lectures and hands-on applications in computer operations (OS), utilities, job/task/data management, writing system routines, generating an IBM S/360 operating system, system routine programming, computer system performance measurement, reference manual maintenance, and IBM S/360 computer system briefings and instructions. Students generate both MFT and MVT environments and write system supervisor and overall system performance.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in operating systems (6/75).

MC-1402-0016
PROGRAMMING FOR OPTICAL CHARACTER RECOGNITION (OCR) SYSTEM

Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 5 weeks (136 hours).
Exhibit Dates: 6/74-Present.

Objectives: To train enlisted personnel as application programmers for the Lundy/Farrington 3030 optical character recognition system.

Instruction: Lectures and practical exercises in optical character recognition system development; forms design, form specification, and system overview; L/F 3030 OCR system operating principles and peripheral devices; OCR instruction-coding; octal numbering system; program maintenance; and 3030 reader control program standard sequences and modification methods for the programmers application.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (4/74), in the upper-division baccalaureate category, 3 semester hours in computer programming (4/74).

MC-1402-0017
DATA SYSTEMS (ENLISTED)

Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 7 weeks (192 hours).
Exhibit Dates: 9/70-Present.

Objectives: To provide operators and programmers with advanced technical training in data processing.

Instruction: Lectures and practical exercises in IBM S/360 hardware; S/360 operating system organization and functions; operating system job control language coding; programming with COBOL, FORTRAN, and BASIC languages; performance evaluation and job-scheduling techniques; and analysis, design, and operation of a data communications-oriented computer system.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer programming, 1 in teleprocessing (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming, 1 in teleprocessing (4/74), in the upper-division baccalaureate category, 3 semester hours in computer programming, 1 in teleprocessing (4/74).
MC-1402-0018
IBM SYSTEM 360 DESK OPERATING SYSTEM (DOS) OPERATIONS
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 6 weeks (167-168 hours).
Exhibit Dates: 8/73-12/74.
Objectives: To train enlisted personnel to operate computers.
Instruction: Lectures and practical exercises in data processing fundamentals, central processing unit operation, and IBM 360 peripheral equipment operation, with emphasis on operator commands associated with the 360 operating system under HASP and disk operating system.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations, 1 in data processing fundamentals (6/75).

MC-1402-0019
ELECTRICAL ACCOUNTING MACHINES (EAM)
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 3 weeks (105 hours).
Exhibit Dates: 8/73-12/74.
Objectives: To train enlisted personnel to operate data record equipment.
Instruction: Lectures and practical exercises in data processing introduction, Hollerith card code, 029 card punch, 059 card verifier, 085/084 sorters, 557 interpreter operating and wiring, 517 reproducer and 088 collator operation procedures, and data processing installation orientation and management responsibilities.
Credit Recommendation: In the vocational certificate category, 2 semester hours in data record processing (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in unit record data processing (4/74).

MC-1402-0020
1. DATA PROCESSING INSTALLATION MANAGEMENT SEMINAR
2. DATA PROCESSING INSTALLATION MANAGER'S SEMINAR
3. DATA PROCESSING INSTALLATION MANAGEMENT
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Objectives: To educate data processing personnel in the supervisory and management concepts and skills required to manage data processing installations.
Instruction: Version 1: Lectures and practical exercises in a broad spectrum of fiscal, administrative, personnel and logistical management techniques as applied to data processing installation management. Zero-based budgeting is included. Version 2: Lectures and practical exercises in data processing equipment management, production management, installation securi-

MC-1402-0021
ADVANCED DATA SYSTEMS OFFICER
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 12 weeks (296 hours).
Exhibit Dates: 9/70-Present.
Objectives: To train experienced systems analysts to manage data processing installations.
Instruction: Lectures and practical exercises in digital computer systems hardware and software requirements, real-time computer systems characteristics, and information systems development, Mk IV language, and IBM/360.
Credit Recommendation: In the vocational certificate category, 4 semester hours in data processing management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in data processing management (7/74); in the upper-division baccalaureate category, 3 semester hours in data processing management (7/74).

MC-1402-0022
ADVANCED OPERATIONS TECHNIQUES (IBM SYSTEM 360 (OS) ADVANCED OPERATIONS TECHNIQUES)
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 6 weeks (193-201 hours).
Exhibit Dates: 5/74-Present.
Objectives: To train computer operators to control and operate an IBM 3760 multiprogramming environment running under the OS-operating system and to provide an understanding of COBOL programming problems and techniques.
Instruction: Lectures and practical exercises in 3760 operating system with HASP and standard utility programs, system job control language detailed study, multi-systems operation techniques and production scheduling, data processing resources management, and COBOL programming introduction, with emphasis on reading core dumps of abnormally terminated jobs.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer operations (6/75); in the upper-division baccalaureate category, 2 semester hours in computer programming (6/75).

MC-1402-0023
IBM SYSTEM 360 OPERATING SYSTEM (OS) OPERATIONS
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 4-5 weeks (132-141 hours).
Exhibit Dates: 8/73-Present.
Objectives: To train enlisted personnel to operate the IBM system 360 computer running under the Operating System (OS).
Instruction: Lectures and practical exercises in Hollerith punch card code, flow charting, number systems, IBM System 360 job control language (JCL), computer system concepts, control units, IBM System 360/2040 central processing unit, IBM 1040 console typewriter, IBM 1403 printer, IBM 2540 card reader/punch, Calcomp CD12 disk drives, IBM 3420 tape drives, IBM System 360 OS initial program load (IPL) procedures, operator commands, and statements for the Operating System (OS) and HASP.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations, 1 in data processing fundamentals (12/77).

MC-1402-0024
IBM SYSTEM 360 (OS) ADVANCED PROGRAMMING TECHNIQUES (ADVANCED PROGRAMMING TECHNIQUES)
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 8 weeks (219-229 hours).
Exhibit Dates: 1/76-Present.
Objectives: To train experienced COBOL programmers to write programs in IBM S/360 (OS) assembler language.
Instruction: Version 1: Lectures and practical exercises in advanced system of American National Standard (ANSI) COBOL debugging utilizing an IBM, IBM 350 operating system (OS), utilities, job control language (JCL), structured approach to programming, and introduction to systems analysis and design. Version 2: Lectures and practical exercises in IBM S/360 Operating System (OS) assembler language, IBM S/360 Operating System (OS) and job control language, COBOL language, and MARK IV file management system techniques, and data management facilities usage.
Credit Recommendation: Version 1: In the upper-division baccalaureate category, 3 semester hours in advanced computer programming, 2 in systems analysis and design (12/77). Version 2: In the upper-division baccalaureate category, 5 semester hours in computer programming (6/75).

MC-1402-0025
DATA SYSTEMS OFFICER (DATA SYSTEMS OFFICER)
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
MC-1402-0026
FISCAL ACCOUNTING CLERK
Course Number: None
Location: Service Support School, Cpl. Lejeune, NC.
Length: 9 weeks (225 hours).
Exhibit Dates: 4/75-Present.
Objectives: To train officers and enlisted personnel in accounting skills and the application of these skills to a mechanized accounting system.
Instruction: Lectures, demonstrations, and illustrative problems in basic accounting procedures required to provide the student with a working knowledge of formal mechanized accounting techniques and their application to a computer system.
Credit Recommendation: In the upper-division baccalaureate category.

MC-1402-0027
ADVANCED MARK IV
Course Number: None
Location: Computer Science School, Quantico VA.
Length: Self-paced 2 weeks (60-80 hours).
Exhibit Dates: 7/74-Present.
Objectives: To train Mark IV programmers to utilize the advanced features of the Mark IV information retrieval and reporting language.
Instruction: Lectures and practical exercises involving table look-up techniques, file index access methods, file management, and data retrieval and reporting. Self-paced study teaches the special features of Mark IV which include extended segment processing, extended reporting, file processing, coordinated files, text processing, transaction processing and hierarchial record structure processing.
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in computer programming (12/77).

MC-1402-0028
MARINE CORPS INTEGRATED MAINTENANCE MANAGEMENT (OFFICER)
Course Number: None.
Location: Supply Center, Albany, GA.
Length: 6 weeks (238 hours).
Exhibit Dates: 2/75-Present.
Objectives: To train selected officers for the administration and management of maintenance management billets.
Instruction: Lectures and practical exercises in maintenance management information systems, maintenance records, production and resources, supply support, leadership and management, and Marine Corps procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic data processing (6/75).

MC-1402-0029
IBM SYSTEM 360 OS COBOL LANGUAGE (ENTRY-LEVEL)
Course Number: S0ZX5144-1.
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 8 weeks (287 hours).
Exhibit Dates: 4/75-Present.
Objectives: To provide technical education to entry-level personnel in the basic concepts of data processing and the COBOL language.
Instruction: Self-paced course using the structural approach to COBOL programming. Course covers ISAM file organization and OS system utilities.
Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in computer programming, 1 in data processing fundamentals (12/77).

MC-1402-0030
IBM SYSTEM 360 OS PROGRAMMING
Course Number: S0ZX5144-2.
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 10 weeks (385 hours).
Exhibit Dates: 9/74-Present.
Objectives: To provide technical education for personnel to prepare them for duties as an IBM System 360 OS ALC programmer and entry-level system programmer.
Instruction: Course consists of IBM System 360 (OS) Advanced Coding (50ZX5144-14) (see exhibit MC-1402-0031), IBM System 360 OS System Control (50ZX5144-5) (see exhibit MC-1402-0031), and IBM System 360 OS Data Management (50ZX5144-16) (see exhibit MC-1402-0031).
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in advanced computer programming (12/77).

MC-1402-0031
IBM SYSTEM 360 OS ASSEMBLER LANGUAGE
Course Number: S0ZX5144-3.
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 4 weeks (162 hours).
Exhibit Dates: 9/74-Present.
Objectives: To train students to code in Basic Assembler Language (BAL).
Instruction: The self-paced course includes practical exercises encompassing all phases of BAL coding, including fixed and variable length program instructions. Subprogram linkage and macros are also discussed. A variety of problem applications are written, coded, and debugged.
Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in computer programming (12/77).

MC-1402-0032
IBM SYSTEM 360 OS SYSTEMS PROGRAMMING
Course Number: S0ZX5144-4.
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 6 weeks (223 hours).
Exhibit Dates: 9/74-Present.
Objectives: To provide technical education to personnel trained in System 360 Assembler Language to prepare them for duties as an entry-level systems programmer.
Instruction: Course consists of IBM System 360 (OS) Advanced Coding (50ZX5144-14) (see exhibit MC-1402-0037), IBM System 360 OS System Control (50ZX5144-5) (see exhibit MC-1402-0037), and IBM System 360 (OS) Data Management (50ZX5144-16) (see exhibit MC-1402-0037).
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in operating systems, 1 in computer programming, 2 in advanced computer programming (12/77).

MC-1402-0033
IBM SYSTEM 360 OS SYSTEM CONTROL
Course Number: S0ZX5144-5.
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 2 weeks (81 hours).
Exhibit Dates: 9/74-Present.
Objectives: To train programmers in the use of Job Control Language and selected utility programs for an IBM System 360 operating system (OS).
Instruction: A self-paced course requiring practical exercises in the use of IBM System 360 Job Control Language and utility programs. Course includes load modules, creation, retrieval and concatenation of cataloged data sets, use of linkage editor, and overlay features.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in advanced computer programming (12/77).

MC-1402-0034
IBM SYSTEM 360 OS FORTRAN PROGRAMMING
Course Number: S0ZX5144-6.
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 2 weeks (90 hours).
Exhibit Dates: 9/74-Present.
Objectives: To train students with a programming background in the use of the FORTRAN programming languages.
Instruction: A self-paced course requiring practical exercises in coding, debugging
and executing application programs using the FORTRAN programming language. Course includes the use of arrays, input-output operations, subprogram linkage, and processing of sequential and direct-access data sets.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in computer programming (12/77).

MC-1402-0035
IBM SYSTEM 360 OS PROGRAMMING
Course Number: 50ZX5144-4
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 3 weeks (135 hours).
Exhibit Dates: 9/74-Present.
Objectives: To train students to program in PL/1 as a second language.
Instruction: A self-paced course requiring practical exercises involving arithmetic expressions, constants, logical operations, arrays and DO loops, fixed-point expressions, structures, built-in functions, stream and record oriented I/O, and indexed sequential file handling.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in computer programming (12/77).

MC-1402-0036
IBM SYSTEM 360 OS COBOL PROGRAMMING
Course Number: 50ZX5144-5
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 2 weeks (90 hours).
Exhibit Dates: 9/74-Present.
Objectives: To train students with a programming background to program in COBOL.
Instruction: Self-paced course requiring practical exercises involving coding, debugging, and executing COBOL programs. Course includes sequential as well as indexed sequential file access methods, subprogram linkage, sequential file updating and edited report output.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in computer programming (12/77).

MC-1402-0037
IBM SYSTEM 360 (OS) ADVANCED CODING
Course Number: 50ZX5144-14
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 2 weeks (72 hours).
Exhibit Dates: 9/74-Present.
Objectives: To train students to handle IBM System 360 operating system data management, task management, and system generation.
Instruction: A self-paced course requiring practical exercises involving the handling of load modules, channel programming, task management, concurrent processing and system generation concepts and procedures.
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in operating systems (12/77).

MC-1402-0038
IBM SYSTEM 360 OS SYSTEM CONTROL AND DATA MANAGEMENT
Course Number: 50ZX5144-15
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 4 weeks (151 hours).
Exhibit Dates: 9/74-Present.
Objectives: To provide technical education in IBM System 360 OS system control and data management.
Instruction: Course consists of IBM System 360 OS System Control (50ZX5144-5) (see Exhibit MC-1402-0033) and IBM System 360 (OS) Data Management (50ZX5144-16) (see exhibit MC-1402-0039).
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in computer programming, 2 in advanced computer programming (12/77).

MC-1402-0039
IBM SYSTEM 360 (OS) DATA MANAGEMENT
Course Number: 50ZX5144-16
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 2 weeks (70 hours).
Exhibit Dates: 9/74-Present.
Objectives: To provide technical education to experienced programmers in the specific use of IBM file organization and access methods using assembler language.
Instruction: A self-paced course of instruction to train programmers in the specific use of IBM file organization and access methods. Included are assembler program exercises using OSM, BMSX, BPSX, BPSAM, QFAM, and BDAM access methods.
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in computer programming (12/77).

MC-1402-0040
MARINE ASSEMBLER LANGUAGE PROGRAMMING
Course Number: 50ZX5144-17
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 8 weeks (313 hours).
Exhibit Dates: 9/74-Present.
Objectives: To provide technical education to experienced programmers in assembler language.
Instruction: Course consists of IBM System 360 OS Assembler Language (50ZX5144-3) (see exhibit MC-1402-0031), IBM System 360 OS System Control (50ZX5144-5) (see exhibit MC-1402-0033), and IBM System 360 (OS) Data Management (50ZX5144-16) (see exhibit MC-1402-0039).
Credit Recommendation: In the upper-division baccalaureate category, 5 semester hours in computer programming, 2 in advanced computer programming (12/77).

MC-1402-0041
IBM SYSTEM 360 (OS) SYSTEMS PROGRAMMING
Course Number: 50ZX5144-19
Location: Computer Sciences School, Quantico, VA.
Length: 9 weeks (292 hours).
Exhibit Dates: 6/75-Present.

MC-1402-0042
IBM SYSTEM 360 (OS) DATA CONTROL TECHNIQUES
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 6 weeks (210 hours).
Exhibit Dates: 8/75-Present.
Objectives: To train enlisted personnel in data control techniques to prepare them as data controllers for the IBM System 360 computer system utilizing HASP.
Instruction: Lectures and practical exercises designed to provide operations personnel with working knowledge of IBM System 360 Job Control Language (JCL), utilities, and HASP capabilities. Included are cataloging in-stream procedures, updating system catalog, restart procedures, optimization of buffering and blocking of core storage and disk, disk space calculations, and core dump reading.
Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in computer programming (12/77).

MC-1402-0043
IBM SYSTEM 360 OS FORTRAN IV LANGUAGE (ENTRY-LEVEL)
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: Self-paced 8 weeks (320 hours).
Exhibit Dates: 8/75-Present.
Objectives: To train entry-level data processing students as FORTRAN programmers on the IBM System 360.
Instruction: A self-paced course requiring practical exercises in coding, debugging, and executing application programs using the FORTRAN programming language. Course includes an introduction to data processing concepts and hardware, flowcharting and problem solution, compiler principles and FORTRAN coding conventions. Use of arrays, input-output operations, subprograms linkage, and processing of direct-access data sets are covered.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to data processing (12/77); in the upper-division baccalaureate category, 4 semester hours in computer programming (12/77).

MC-1402-0044
AUTOMATIC DATA PROCESSING (ADP) ORIENTATION (7E)
Course Number: None.
Location: Computer Sciences School, Quantico, VA.
Length: 2 weeks (57 hours).

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COURSE EXHIBITS

Exhibit Dates: 1/75-Present.

Objective: To familiarize students with principles, methods, and techniques of data processing and to reinforce these principles through problem-solving programming assignments.

Instruction: Lectures and problem-solving exercises involving BASIC and MARK programming languages to introduce principles, methods, and techniques of data processing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category. 3 semester hours in principles of data processing (12/77).

MC-1403-0001

UNIT DIARY CLERK

Course Number: None.

Location: Personnel (Administration School), C p. Pendleton, CA; Schools Battalion, Parris Island, SC.

Length: 3 weeks (112-119 hours).

Exhibit Dates: 7/77-Present.

Objectives: To train enlisted personnel to prepare unit diaries.

Instruction: Practical exercises in typing, filing, and correspondence.

Credit Recommendation: No credit because of the military-specific nature of the course (3/74).

MC-1403-0002

ADMINISTRATIVE CLERK

Course Number: None.

Location: Personnel (Administration School), C p. Pendleton, CA; Schools Battalion, Parris Island, SC.

Length: 3 weeks (112-119 hours).

Exhibit Dates: 7/77-Present.

Objectives: To train selected personnel in the fundamentals of personnel administration.

Instruction: Practical exercises in typing, filing, and correspondence.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in typing and office procedures (8/77).

MC-1403-0003

PERSONNEL FINANCIAL RECORDS CLERK (BASIC DISBURSING CLERK)

Course Number: None.

Location: Service Support School, C p. Lejeune, NC.

Length: 6-8 weeks (177-249 hours).

Exhibit Dates: 9/65-Present.

Objectives: To train enlisted personnel in the basic concepts, fundamentals, and principles of payroll disbursing including typing and necessary clerical procedures.

Instruction: Practical experience in disbursing, military pay records, correspondence, and office machines.

Credit Recommendation: In the vocational certificate category, 2 semester hours in personal typing, 2 in clerical procedures (11/77).

MC-1403-0005

BASIC TRAVEL CLERK

Course Number: None.

Location: Service Support School, C p. Lejeune, NC.

Length: 5 weeks (122 hours).

Exhibit Dates: 7/74-Present.

Objectives: To provide enlisted personnel with instruction in basic travel procedures and to provide the clerical experiences necessary to insure conformance to travel regulations.

Instruction: Practical exercises and experiences in preparing travel vouchers and related data, including basic mathematical computations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (7/77).

MC-1405-0003

PERSONNEL CLERK

Course Number: None.

Location: Service Support School, C p. Lejeune, NC.

Length: 4-6 weeks (105-195 hours).

Exhibit Dates: 5/65-Present.

Objectives: To train enlisted personnel to maintain personnel records.

Instruction: Lectures and practical exercises in preparing and updating personnel records; gathering source documents, and preparing and typing individual pay forms.

Credit Recommendation: No credit because of the military nature of the course (3/74).

MC-1405-0004

BASIC SUPPLY FUNDAMENTALS (MANUAL) (BASIC SUPPLY ADMINISTRATION)

Course Number: None.

Location: Service Support School, C p. Lejeune, NC.

Length: 4-6 weeks (105-195 hours).

Exhibit Dates: 5/65-Present.

Objectives: To train supply clerks in the basic and technical procedures of filling organic supply billets.

Instruction: Practical experience in operation and maintenance of office machines and in accounting procedures; lectures in naval correspondence.

Credit Recommendation: No credit because of the military nature of the course (3/74).

MC-1405-0005

1. BASIC SUPPLY ADMINISTRATION (MECHANIZED)

2. SUPPLY ADMINISTRATION (ADVANCED SUPPLY ADMINISTRATION)

Course Number: None.

Location: Supply School, C p. Lejeune, NC.


Objectives: To train enlisted personnel in supply administration.


Credit Recommendation: Version 1: No credit because of the military nature of the course (6/74). Version 2: In the vocational certificate category, 3 semester hours in materials management (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in materials management (6/74); in the upper-division baccalaureate category, 6 semester hours in supply management (12/68).
SUPPLY NONCOMMISSIONED OFFICER (NCO) LEADERSHIP

Course Number: None.

Location: Service Support Schools, Cp. Lejeune, NC.

Length: 9 weeks (294 hours).

Exhibit Dates: 9/73-Present.

Objectives: To train supply noncommissioned officers to perform as supply administration chiefs in manual and fleet stock accounts and as they relate to Marine Corps applications.

Instruction: Lectures and practical exercises in the duties of supply administration chiefs, including NCO service leadership, publications and allowances, review of manual supply technical behaviors, manual supply NCO leadership and technical behaviors, supply leadership and technical behaviors incident to professional growth and development, mechanized supply technical behaviors within the USAF, and SASSY operating procedures.

Credit Recommendation: No credit because of the military nature of the course (6/74).

MC-1405-0009

ORDNANCE CHIEF

Course Number: None.

Location: Ordnance School, Quantico, VA.

Length: 8 weeks (280 hours).

Exhibit Dates: 2/67-7/74.

Objectives: To train officers to be ordnance chiefs.

Instruction: Lectures and practical exercises in the operation of typewriters and calculators, preparation of naval correspondence, use of supply publications, computation of allowances, organic property control procedures, and mechanized supply operations.

Credit Recommendation: In the upper-division baccalaureate category, credit in supply procedures on the basis of institutional evaluation (12/68).

MC-1405-0012

BASIC SUPPLY STOCK CONTROL

Course Number: None.

Location: Service Support School, Cp. Lejeune, NC.

Length: 7 weeks (218 hours).

Exhibit Dates: 7/75-Present.

Objectives: To train entry-level Marines to perform as supply administrator/operations clerks.

Instruction: Lectures, demonstrations, and practical exercises in the use of supply accounting systems, in the daily operation of a supply account. Includes instruction in typing and filing necessary to maintain supply records.

Credit Recommendation: In the vocational certificate category, 3 semester hours in personal typing, 2 in records management (7/77).

MC-1405-0013

WAREHOUSING STAFF NONCOMMISSIONED OFFICER (NCO) LEADERSHIP (ADVANCED WAREHOUSING)

Course Number: None.

Location: Service Support School, Cp. Lejeune, NC; Supply School, Cp. Lejeune, NC.

Length: 5-6 weeks (165–193 hours).

Exhibit Dates: 4/64-Present.

Objectives: To train noncommissioned officers to handle warehouse operations and perform the duties of a warehouse chief within a garrison or field warehousing operation.

Instruction: Lectures and practical exercises in the duties of a warehouse chief. Course includes fundamentals of warehousing, shipping, packing, space layout, and utilization, materials-handling equipment, and transportation.
MC-1405-0014

SENIOR ENLISTED SUPPLY

Course Number: None.

Location: Service Support School, Cp. Lejeune, NC; Supply School, Cp. Lejeune, NC.

Length: 7 weeks (201–256 hours).

Exhibit Dates: 8/63–Present.

Objectives: To train noncommissioned officers to operate supply systems.

Instruction: Lectures and practical exercises in the operation of supply systems, including supply management, financial control, maintenance and disposal of equipment, small purchase procedures, transportation, and financial management.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74); in the upper-division baccalaureate category, 2 semester hours in supply management (7/74).

MC-1405-0015

ACCOUNTABLE OFFICER

Course Number: None.

Location: Supply School, Cp. Lejeune, NC.

Length: 12 weeks (420 hours).

Exhibit Dates: 2/55–12/68.

Objectives: To train commissioned officers to manage supply accounts.

Instruction: Lectures and practical exercises in the management of supply, accounts. Course includes supply procedures and operations, fiscal accounting, storing and materials handling, and transportation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74); in the upper-division baccalaureate category, 2 semester hours in supply management (7/74).

MC-1405-0016

OFFICERS WAREHOUSING

Course Number: None.

Location: Service Support School, Cp. Lejeune, NC; Supply School, Cp. Lejeune, NC.

Length: 4–5 weeks (139–165 hours).


Objectives: To train commissioned officers to perform as warehousing officers.

Instruction: Lectures and practical exercises in the duties of a warehouse officer. Course includes technical publications, storage facility planning and management, materials-handling equipment, inventory procedures, receiving, issuing, and shipping procedures, storage methods, and packing, packaging, and preservation.

Credit Recommendation: In the vocational certificate category, 1 semester hour in supply management (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in supply management (7/74); in the upper-division baccalaureate category, 3 semester hours in supply management (12/68).

MC-1405-0017

UNIT SUPPLY OFFICER

Course Number: None.

Location: Supply School, Cp. Lejeune, NC.

Length: 7–12 weeks (244–382 hours).

Exhibit Dates: 11/59–Present.

Objectives: To train officers as supply officers.

Instruction: Lectures and practical exercises in supply procedures, including supply management, office procedures, financial control, financial management, accounting, systems analysis, measurement, transportation, distribution, storage operations, and computerized supply operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (7/74); in the upper-division baccalaureate category, 4 semester hours in supply management (12/68).

MC-1405-0018

AVIATION SUPPLY OFFICER

Course Number: None.


Objectives: To train Marine Corps officers in the logistics and functions of the Navy supply system.

Instruction: Lectures and practical exercises in the fundamentals of supply management, office procedures, financial management, purchasing, inventory control, and systems analysis.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (7/74); in the upper-division baccalaureate category, 3 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (7/74); in the upper-division baccalaureate category, 5 semester hours in supply management (12/68).

MC-1405-0019

1. BASIC COMMUNICATION OFFICER
   (BCOC) (BASIC COMMUNICATIONS OFFICER)
2. BASIC COMMUNICATION OFFICER
   (COMMUNICATION OFFICER)

Course Number: None.

Location: Version 1: Development and Education Command, Quantico, VA. Version 2: Development and Education Command, Quantico, VA, Marine Corps School, Quantico, VA.


Objectives: To train basic school graduates to be communications officers.

Instruction: Lectures and practical exercises in communication center organization and operation, basic radio theory, communication equipment and procedures, amphibious operations, and command and staff organization.

Credit Recommendation: Version 1: No credit because of the limited specialized nature of the course (12/77). Version 2: In the upper-division baccalaureate category, 2 semester hours in communications center management (12/68).

MC-1406-0001

ENLISTED INSTRUCTOR ORIENTATION

Course Number: None.

Location: Development and Education Command, Quantico, VA.

Length: 2 weeks (30 hours).

Exhibit Dates: 12/68–Present.

Objectives: To train instructors in the basic procedures and techniques of instruction, with emphasis on communication skills.

Instruction: Lectures and practical experience in the professional foundations of learning and teaching, communication skills, procedures and techniques of instruction, objective examination techniques, and a series of practice presentations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in instructional methods (1/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in instructional methods (1/74); in the upper-division baccalaureate category, 1 semester hour in instructional methods (1/74).

MC-1406-0002

WOMEN PHYSICAL TRAINING INSTRUCTOR (PHYSICAL TRAINING INSTRUCTOR (WOMEN))

Course Number: None.

Location: Upper-division Education Command, Quantico, VA.

Length: 11 weeks (427–482 hours).

Exhibit Dates: 12/68–Present.

Objectives: To train military personnel as instructors of physical training.

Instruction: Structural and functional kinesiology; applied principles of physical training, personal grooming, sports skills, aquatics, physical fitness training methodology; techniques of instruction, individual conditioning.

Credit Recommendation: In the vocational certificate category, 8 semester hours in physical education (1/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in physical education (1/74); in the upper-division baccalaureate category, 8 semester hours in physical education (1/74).

MC-1406-0003

INSTRUCTOR ORIENTATION

Course Number: None.

Location: Marine Corps School, Quantico, VA.
MC-1406-0004
SERGEANTS MAJOR PERSONNEL ADMINISTRATION
Course Number: None.
Location: Personnel Administration School, Parris Island, SC.
Length: 5 weeks (166 hours).
Exhibit Dates: 1/66-12/68.
Objectives: To train sergeants major in basic personnel management procedures.
Instruction: Lectures and practical exercises in testing methodology, educational psychology, and effective writing.
Credit Recommendation: In the vocational certificate category, 3 semester hours in instructional methods (1/66-12/68).

MC-1406-0005
FIRST SERGEANTS PERSONNEL ADMINISTRATION
Course Number: None.
Location: Personnel Administration School, Parris Island, SC.
Length: 6 weeks (197-244 hours).
Exhibit Dates: 4/63-12/72.
Objectives: To train first sergeants in procedures involved in military personnel administration.
Instruction: Lectures and practical exercises in enlisted and officer records, personnel records and classification systems, separations and pay procedures, office management, English and speech, correspondence and publications, and naval justice.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in office administration (12/68).

MC-1406-0006
WARRANT OFFICER PERSONNEL ADMINISTRATION
Course Number: None.
Location: Personnel Administration School, Parris Island, SC.
Length: 6 weeks (143-146 hours).
Exhibit Dates: 4/63-12/72.
Objectives: To train warrant officers in the duties of administrative officers.

MC-1406-0007
BASIC PERSONNEL ADMINISTRATION
Course Number: None.
Location: Personnel Administration School, Parris Island, SC.
Length: 5 weeks (166 hours).
Exhibit Dates: 1/66-12/68.
Objectives: To train enlisted personnel in the fundamentals of personnel administration.
Instruction: Lectures and practical exercises in manpower management, personnel records and classification systems, separations and pay procedures, personnel management, English and speech, correspondence and publications, and naval justice.
Credit Recommendation: In the vocational certificate category, 2 semester hours in personnel administration (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in personnel administration (2/74); in the upper-division baccalaureate category, 2 semester hours in personnel administration (12/68).

MC-1406-0008
ADMINISTRATIVE CHIEF PERSONNEL ADMINISTRATION (PERSONNEL CHIEF PERSONNEL ADMINISTRATION)
Course Number: None.
Location: Personnel Administration School, Parris Island, SC.
Length: 5 weeks (213-440 hours).
Exhibit Dates: 7/58-Present.
Objectives: To train noncommissioned officers for supervisory duties in military personnel administration.
Instruction: Lectures and practical exercises in manpower management, personnel records and processing, personnel classification and accounting, pay and benefits, naval justice, correspondence, personnel actions, and related reports.
Credit Recommendation: In the vocational certificate category, 3 semester hours in personnel administration (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in personnel administration (2/74); in the upper-division baccalaureate category, 2 semester hours in personnel records and classification administration (12/68).

MC-1406-0009
1. MARINE CORPS RECRUITER
2. RECRUITER
Course Number: None.
Location: Recruit Depot, Parris Island, SC; Recruiting Station, San Diego, CA.
Length: 6 weeks (227 hours).
Objectives: To train selected noncommissioned officers in personnel recruiting duties and responsibilities.
Instruction: Lectures and practical exercises in the utilization of recruitment publications, maintenance and disposition of files, Marine Corps directives, personnel accounting, personnel management, maintenance personnel records, and completion of allotment forms.
Credit Recommendation: In the vocational certificate category, 2 semester hours in office administration (2/74).

MC-1406-0010
OFFICER INSTRUCTOR ORIENTATION
Course Number: None.
Location: Instructor Training School, Quantico, VA.
Length: 2 weeks (105 hours).
Exhibit Dates: 10/69-Present.
Objectives: To train commissioned officers and instructors in foundations, methodologies, academic procedures, and techniques of instruction.
Instruction: Lectures and practical exercises in instructional methods. Course includes scientific fundamentals, methodologies, academic procedures, and techniques of military instruction.
Credit Recommendation: In the vocational certificate category, 1 semester hour in educational technology (7/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in educational technology (7/74).

MC-1406-0011
TECHNICAL INSTRUCTOR—BASIC
Course Number: None.
Location: Communication-Electronics School, Twentymile Falls, CA.
Length: 2 weeks (67 hours).
Exhibit Dates: 7/75-Present.
Objectives: To develop attitudes, knowledge, and skills necessary to instruct students in learning through systematic instruction.
Instruction: Lectures and student presentation to include and incorporate academic guidelines, construction of learning objectives, test item construction, methods of instruction, and communication skills.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in instructional methods (8/77).

MC-1406-0012
FIRE AND COOK INSTRUCTOR (IAC)
Course Number: None.
Location: Development and Education Command, Quantico, VA.
Length: 4 weeks (138 hours).
Exhibit Dates: 10/57-Present.
Objectives: To train selected personnel to perform as instructors at formal schools.
COURSE EXHIBITS

Instruction: Instruction includes lecture, demonstration, discussion, and programmed text in basic communication skills, instruction planning, preparation, strategies, presentation, evaluation, and revision.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in instructional methods (10/77).

MC-1407-0001

LEGAL CLERK/COURT REPORTER

(BASIC LEGAL CLERK AND REPORTER)

Course Number: None.
Location: Supply Schools, Cpl. Lejeune, NC.
Length: 6 weeks (210 hours).
Exhibit Dates: 12/59-12/68.
Objectives: To train enlisted personnel to perform as legal clerks or court reporters.

Instruction: Lectures and practical exercises in the duties of a legal clerk or court reporter. Course includes use of recording equipment, dictation and transcription, and correcting techniques and procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in dictation and legal printing (7/74).

MC-1408-0001

DISBURSING CLERK COURSE

Course Number: None.
Location: Supply Schools, Cpl. Lejeune, NC.
Length: 6 weeks (210 hours).
Exhibit Dates: 12/59-12/68.
Objectives: To provide disbursing clerks with advanced training in the administration of pay records and travel expenses.

Instruction: Lectures and practical exercises in disbursement management, including administration of pay records, allowances, personnel travel expenses, and personnel separations.

Credit Recommendation: No credit because of the limited specialized nature of the course (2/74).

MC-1408-0002

ADVANCED DISBURSING CLERK

Course Number: None.
Location: Service Support School, Cpl. Lejeune, NC; Supply Schools, Cpl. Lejeune, NC.
Length: 6 weeks (210 hours).
Exhibit Dates: 12/59-12/68.
Objectives: To train enlisted personnel in the advanced techniques and procedures of disbursing office organization and management.

Instruction: All Versions: Lectures and practical experience in correspondence procedures, military pay and allowances, appropriation accounting, public funds, financial returns, and personnel separation.

Version 2: Includes a nine-day practicum.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in office administration (2/74), in the lower-division baccalaureate/associate degree category, 1 semester hour in office administration (2/74); in the vocational certificate category, 3 semester hours in office administration (2/74), in the lower-division baccalaureate/associate degree category, 1 semester hour in office administration (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in office administration (2/74), in the lower-division baccalaureate/associate degree category, 3 semester hours in office administration (2/74).

MC-1408-0003

ORDNANCE OFFICER/CHIEF

(ORDNANCE OFFICER)

Course Number: None.
Location: Ordnance School, Aberdeen Proving Ground, MD; Ordnance School, Quantico, VA.
Length: 10-26 weeks (302-720 hours).
Objectives: To train enlisted personnel in the procedures of ordnance maintenance management.

Instruction: Lectures in the principles, concepts, and techniques of management, integrated resource control and allocation; and technical aspects of maintenance equipment and facilities.

Credit Recommendation: Version 1: In the vocational certificate category, credit in principles of management on the basis of institutional evaluation (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management (2/74); in the upper-division baccalaureate category, 3 semester hours in maintenance management (2/74).

Version 2: In the vocational certificate category, credit in principles of management on the basis of institutional evaluation (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management (2/74); in the upper-division baccalaureate category, 3 semester hours in maintenance management (2/74); in the upper-division baccalaureate category, 2 semester hours in personnel administration for the 10- to 16-week course, 3 for the 22- to 26-week course (12/68).

MC-1408-0004

COMMUNICATION CENTER CHIEF

Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 10-15 weeks (336-506 hours).
Exhibit Dates: 1/49-12/53.
Objectives: To train senior noncommissioned officers to supervise military communication centers.

Instruction: Lectures in effective reading, writing, and speaking; in principles of management, management principles and procedures, fundamentals of communications, and security, equipment, supply and maintenance procedures.

Credit Recommendation: In the vocational certificate category, credit in communications (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in communication (2/74).

MC-1408-0005

WOMAN MARINE OFFICER'S PERSONNEL ADMINISTRATION

Course Number: None.
Location: Personnel Administration School, Parris Island, SC.
Length: 11 weeks (346 hours).
Exhibit Dates: 7/75-Present.
Objectives: To train corporals and staff sergeants as disbursing office workers and supervisors.

Instruction: Lectures and practical exercises in the duties of a disbursing office worker and supervisor, including adding machine operation, military pay and accounting, accounting, and general disbursing procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in clerical procedures (7/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision (7/77).
MC-1408-0008
1. MARINE CORPS COMMAND AND STAFF COLLEGE
2. MARINE CORPS COMMAND AND STAFF COLLEGE
3. MARINE CORPS COMMAND AND STAFF COLLEGE
4. SENIOR COURSE
5. SENIOR COURSE
6. SENIOR COURSE (SENIOR SCHOOL)

Course Number: None.
Location: Educational Center, Quantico, VA.
Version 2: 40 weeks (1288 hours).
Version 3: 40 weeks (1358 hours).
Version 4: 40 weeks (1301–1379 hours).
Version 5: 40 weeks (1239 hours).
Version 6: 40 weeks (1146–1155 hours).

Objectives: To prepare Marine Corps officers and officers from other services and foreign countries for command and staff duty at high levels.

Instruction: All Versions: Lectures and practical exercises on command and staff duty at high levels. Version 1: Topics include leadership; professional skills and fundamentals; ethics; functioning; management; management of staff; political-military operations; operations ashore; counter-insurgency; national policy; organization; functioning, and decision making within the DoD; Army, Navy, Air Force organizations; strategic surveys; military strategy; domestic forces and factors affecting the military; and American military policy. Version 2: Topics include air-ground task force operations; amphibious operations; management techniques and procedures; organization and functioning for national security; foreign language; instrument; geopolitics and current world situations; and executive leadership. Version 3: Topics include geopolitical and current world situation; air-ground task force operations; executive leadership; language qualification; organization and functioning for national security; defense of advanced naval bases; intelligence; and military theory and organization for national security. Version 4: Topics include amphibious operations; offensive operations ashore; supporting arms; aviation; defensive operations and defense of advanced naval bases; command and staff principles and procedures; administration and logistics; intelligence; communication; and military theory and organization for national security. Version 5: In the upper-division baccalaureate category, 3 semester hours in public affairs, 6 in management, 3 as an elective in foreign language, 3 in independent research project as an elective (7/74).
Version 6: In the upper-division baccalaureate category, 3 semester hours in public affairs, 6 in management, 3 as an elective in foreign language, 3 in independent research project as an elective (7/74).

Location: Educational Center, Quantico, VA.
Length: 39–42 weeks (1130–1253 hours).
Exhibit Dates: 1/55–6/56.
Objectives: To provide advanced professional education to senior commissioned officers.

Instruction: Lectures and practical exercises in command and staff duties, including fundamentals of combat and basic tactical doctrine, weapons, staff functioning, procedures, and techniques; employment of Marine forces; concepts for future operations; Marine Corps policies; and amphibious command post exercise, general military subjects, such as food services, disbursing, administration, and map reading.

Credit Recommendation: In the vocational certificate category, 4 semester hours in business organization and management (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in business organization and management (7/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management (12/68).

MC-1408-0009

BASIC COURSE, POSTGRADUATE

Course Number: None.
Location: Basic School, Quantico, VA.
Length: 3 weeks (136 hours).
Exhibit Dates: 7/54–12/68.

Objectives: To train commissioned officers in Marine Corps administrative policies and procedures.

Instruction: Lectures and practical exercises in Marine Corps administrative policies and procedures.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in business organization and management (12/68).

MC-1408-0010

JUNIOR COURSE

Course Number: None.
Location: Educational Center, Quantico, VA.
Length: 38–39 weeks (1130–1151 hours).

Objectives: To train junior officers to solve tactical and administrative problems.

Instruction: Lectures and practical exercises in tactics and administration, including atomic, biological, and chemical warfare; amphibious operations; artillery; aviation; communications; engineering; intelligence; organization of instruction; instructor training; logistics; medical services; gunnery; personnel and administration; and tactics.

Credit Recommendation: In the vocational certificate category, 3 semester hours in business organization and management (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (7/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

MC-1408-0011

Senior Course

Course Number: None.
Location: None.

Marine Corps, 1–33
MC-1408-0014

STAFF NONCOMMISIONED OFFICERS (NCO) RESIDENT COURSE

Course Number: None.
Location: Officer Candidate School, Quantico, VA.
Length: 6 weeks (158 hours).
Exhibit Dates: 6/73-Present.
Objectives: To educate staff sergeants and selected personnel in professional knowledge and standards, leadership, and esprit de corps.
Instruction: Lectures and practical exercises in effective communication, leadership, customs, courtesies, drill and inspection, and physical training.
Credit Recommendation: In the vocational certificate category, 2 semester hours in typing (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in typing (6/74).

MC-1409-0001

TYING AND GENERAL OFFICE PROCEDURES (WOMEN)

Course Number: None.
Location: Training Center, Parris Island, SC.
Length: 4 weeks (155 hours).
Exhibit Dates: 7/59-12/68.
Objectives: To instruct enlisted personnel in typewriting and office procedures.
Instruction: Practical exercises in business English, spelling, correspondence, typing, filing, and office procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in typewriting and office procedures. Course includes training in typing, preventive maintenance, publications, and general operations of field communication equipment.
Credit Recommendation: Credit in typing on the basis of institutional evaluation (2/76).

MC-1409-0002

FIELD RADIO OPERATOR

Course Number: None.
Location: Communication-Electronics School, Sub Unit 2, San Diego, CA.
Length: 8-9 weeks (309–333 hours).
Exhibit Dates: 12/71-Present.
Objectives: To train enlisted personnel to operate field communication equipment.
Instruction: Lectures and practical exercises in the operation of field communication equipment. Course includes training in typing, preventive maintenance, publications, and general operations of field communication equipment.
Credit Recommendation: Credit in typing on the basis of institutional evaluation (2/76).

MC-1409-0003

CRYPTOGRAPHER

Course Number: None.
Location: Communication-Electronics School, San Diego, CA; Basic Electronics School, San Diego, CA.
Length: 10 weeks (351 hours).
Exhibit Dates: 7/56-12/68.
Objectives: To train enlisted personnel to operate communications systems and cryptographic aids, and in typewriting, including communications systems organization, message preparation, operation and installation of teletypewriter equipment, radio telegraph procedures, cryptographic techniques, classified messages handling, administrative procedures, code systems, security communications, and related applications.
Credit Recommendation: In the vocational certificate category, 2 semester hours in typing (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in typing (6/74).

MC-1409-0004

COMMUNICATION CENTER MAN

Course Number: None.
Location: Communications-Electronics School, Sub Unit 2, San Diego, CA.
Length: 8-9 weeks (309–333 hours).
Exhibit Dates: 12/71-Present.
Objectives: To train enlisted personnel to operate field communication equipment.
Instruction: Lectures and practical exercises in the operation of field communication equipment. Course includes training in typing, preventive maintenance, publications, and general operations of field communication equipment.
Credit Recommendation: Credit in typing on the basis of institutional evaluation (2/76).

MC-1601-0001

ENGINEER EQUIPMENT OFFICERS

Course Number: None.
Location: Engineer School, Cpl. Lejeune, NC.
Length: 7-8 weeks (272-280 hours).
Exhibit Dates: 6/62-12/68.
Objectives: To train officers in engineer equipment operations and maintenance.
Instruction: Lectures and practical exercises in basic civil technology, earth moving estimating, construction equipment maintenance shops management, construction equipment limitations and capabilities, road design, and operator training.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in maintenance management, 5 in civil technology (4/24); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).

MC-1601-0002

ENGINEER OFFICER'S ORIENTATION

Course Number: None.
Location: Engineer School Battalion, Cpl. Lejeune, NC.
Length: 4 weeks (160 hours).
Exhibit Dates: 7/58-6/68.
Objectives: To train officers in basic engineering.
Instruction: Lectures and practical exercises in basic engineering, including organization of engineer units, military construction, engineer equipment, routes of communication, utilities, field electricity, and plumbing, FMF refrigeration, maintenance, motor transport, embarkation of engineer equipment, and demolition and mine warfare.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in civil engineering (7/74); in the upper-division baccalaureate category, credit in engineering construction on the basis of institutional evaluation (12/68).

MC-1601-0004

COMBAT ENGINEER OFFICER

Course Number: None.
Location: Engineer School, Cpl. Lejeune, NC.
Length: Version 1: 7 weeks (235 hours).
Version 2: 6 weeks (242 hours).
Version 3: 4 weeks (132 hours).
Objectives: To train personnel as combat engineer officers.
Instruction: All Versions: Lectures and practical exercises in engineering subjects, including engineering job management, construction, bridges, roads, and demolition.
Version 1: Topics include routes of communication, engineer equipment, landmine warfare, and field fortification and camouflage.
Version 2: Topics include engineer equipment, field construction, routes of communication, landmine warfare, and job planning.
Version 3: Topics include organization of Fleet Marine Force, engineer equipment, mine warfare, camouflage, field fortification, building construction, rigging, soils, engineer reconnaissance, and planning projects.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in civil engineering technology (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in civil engineering technology (7/74); in the upper-division baccalaureate category, credit in engineering construction on the basis of institutional evaluation (12/68).
Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in civil engineering technology (7/74); in the upper-division baccalaureate category, credit in engineering construction on the basis of institutional evaluation (12/68).

MC-1601-0005

ARTILLERY WEAPONS REPAIRMAN

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 14 weeks (420 hours).
Exhibit Dates: 7/54-6/72.
Objectives: To train artillery weapons repairmen to maintain and repair field and antiaircraft artillery.
Instruction: Lectures and practical exercises in artillery fundamentals; rigging; major components operation, characteristics, disassembly, and assembly; inspection and maintenance of various artillery weapons.
Credit Recommendation: In the vocational certificate category, 2 semester hours in mechanical or industrial technology (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in mechanical or industrial technology (8/74).

MC-1601-0006

INFANTRY WEAPONS ARMORER

Course Number: None.
MC-1606-0001

AIR OBSERVATION

Course Number: None.
Location: Educational Center, Quantico, VA.
Length: 13 weeks (445 hours).

Objectives: To train enlisted personnel as aerial observers.

Instruction: Lectures and field and flight exercises in basic air observation methods and techniques, and tactical and gunnery aerial observation.

Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

MC-1606-0002

AERIAL NAVIGATION (AIR NAVIGATION)

Course Number: None.
Location: Air Station, Cherry Point, NC.
Length: 14 weeks (535-537 hours).

Objectives: To train aerial navigators.

Instruction: Lectures and practical exercises in basic aerial navigation, meteorology, and instrument navigation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in navigation (12/68).

MC-1606-0003

8TH CLASS AIR OBSERVATION SCHOOL

Course Number: None.
Location: Marine Corps School, Quantico, VA.
Length: 16 weeks (490 hours).

Objectives: To train enlisted personnel as aerial observers.

Instruction: Lectures and practical exercises in aerial observation. Topics include tactical observation, gunnery aerial observations, communications, and staff principles and techniques.

Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

MC-1703-0001

UTILITIES OFFICER

Course Number: None.
Location: Engineer School, Cp. Lejeune, NC.
Length: 13 weeks (486 hours).

Objectives: To train enlisted personnel as utilities inspectors.

Instruction: Lectures and practical exercises in the inspection of utility systems. Course includes blueprint reading, introduction to engines, applied electrical fundamentals, AC motors and controls, generators, wiring, electric distribution, water purification procedures, water supply equipment, plumbing procedures, refrigeration theory and systems, refrigeration equipment, air conditioning, and technical inspections.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic refrigeration (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic refrigeration (6/74).

MC-1703-0002

ADVANCED MOTOR TRANSPORT

Course Number: None.
Location: Supply School, Cp. Lejeune, NC.
Length: 16 weeks (511 hours).

Objectives: To train noncommissioned officers to supervise, operate, and maintain motor transport equipment.

Instruction: Lectures and practical exercises in motor transport equipment operation and maintenance, including internal-combustion engines, carburetion and ignition, power train, hydraulic transmission, and brakes; preventive maintenance and body repair; and supervisory procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in automotive mechanics (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in automotive mechanics (4/74).

MC-1703-0003

MOTOR TRANSPORT CHIEF

Course Number: None.
Location: Supply School, Cp. Lejeune, NC.
Length: 10-13 weeks (358-454 hours).

Objectives: To train noncommissioned officers to supervise, operate, and maintain motor transport equipment.

Instruction: Lectures and practical exercises in administration, maintenance management, and supply systems; automobile tools, power plant, electrical and fuel systems; tune-up and power train, chassis, body, radiator, and fuel tank servicing, testing, maintenance, and repair.

Credit Recommendation: In the vocational certificate category, 5 semester hours in automotive mechanics or automotive technology (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in automotive mechanics or automotive technology (4/74).

MC-1703-0004

ONTOS (M50) FOURTH AND FIFTH ECHELON MAINTENANCE

Course Number: None.
Location: Tracked Vehicle Repairman School, Cp. Pendleton, CA.
Length: 3 weeks (126 hours).

Objectives: To train tracked vehicle repairmen as specialists in combat tracked vehicle repair.

Instruction: Lectures and practical exercises in tracked vehicle hull, track, and suspension systems repair; removal, disassembly, repair, reassembly, and testing of engines and power trains; basic electricity; and troubleshooting and inspection procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in automobile mechanics or heavy equipment repair (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in automobile mechanics or heavy equipment repair (4/74).
OBJECTIVES: To train enlisted personnel to inspect, troubleshoot, and repair tracked vehicles.

Instruction: Lectures and practical exercises in the inspection, service, and repair of tracked vehicles. Topics include operation, maintenance, and repair of tracked vehicles, including fuel and electrical systems; fuel and fuel systems; suspension systems; engines and power trains; and electrical systems. Objectives: To train enlisted personnel to maintain, repair, and service tracked vehicles.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in automotive mechanics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive mechanics (5/74).

MC-1703-0008
AUTOMOTIVE ORGANIZATIONAL MAINTENANCE

Course Number: None.
Location: None.
Length: 12 weeks (280-298 hours).

OBJECTIVES: To train enlisted personnel to perform as automotive mechanics.

Instruction: Lectures and practical exercises in the inspection, service, and repair of tracked vehicles. Topics include inspection, service, and repair of tracked vehicles. Objectives: To train enlisted personnel to maintain, repair, and service tracked vehicles.

Credit Recommendation: Version 1: In the vocational certificate category, 6 semester hours in automotive maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive maintenance (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive maintenance (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive maintenance (7/74).

MC-1703-0009
AUTOMOTIVE ORGANIZATIONAL MAINTENANCE

Course Number: None.
Location: Supply School, C. Lejeune, NC.
Length: 6 weeks (203 hours).
Exhibit Dates: 7/58-12/68.

OBJECTIVES: To train enlisted personnel to perform and supervise maintenance on tracked vehicles.

Instruction: Lectures and practical exercises in the inspection, service, and repair of tracked vehicles. Topics include inspection, troubleshooting, and repair of tracked vehicles. Objectives: To train enlisted personnel to perform and supervise maintenance on tracked vehicles.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in the vocational certificate category, 12 semester hours in automotive or heavy equipment (5/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in automotive or heavy equipment (5/74). Version 2: In the vocational certificate category, 10 semester hours in automotive or heavy equipment (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in automotive or heavy equipment (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in automotive or heavy equipment (5/74).
MC-1703-0012

ADVANCED AUTOMOTIVE MECHANIC/MAINTENANCE NONCOMMISSIONED OFFICER

Course Number: None.
Location: Service Support School, Cpl. Lejeune, NC.
Length: 16 weeks (503 hours).
Exhibit Dates: 7/74-Present.

Objectives: To train personnel to diagnose and repair defects in light-duty and medium-duty trucks and to demonstrate proficiency in those repairs. In addition, the student will have a working knowledge of maintenance management techniques relative to truck operations.

Instruction: Lectures and practical exercises in the management of motor transport and supply, shop mathematics, tools, repair/overhaul of standard, multifuel, and diesel engines, vehicle power trains, automotive systems, removal and replacement of assemblies, and management principles (shop level).

Credit Recommendation: No credit because of the military-specific nature of the course (2/76).

MC-1704-0002

AIR CONTROL/Antiair WARFARE ELECTRONICS OPERATOR (AIR CONTROL/AntiairCraft WARFARE ELECTRONICS OPERATOR)

Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 5–7 weeks (175–245 hours).
Exhibit Dates: 6/64-Present.

Objectives: To train enlisted personnel in tactical air control, air support, and antiaircraft missile systems electronics operations.

Instruction: Lectures and demonstrations in air control and air support electronics, including radar indicator operation and adjustment; radio direction finding equipment; radio/telephone procedures; aircraft control information status and plotting; and interpreting aircraft speed, course, altitude, and identification from radar indications.

Credit Recommendation: No credit because of the military-specific nature of the course (3/74).

MC-1703-0016

MOTOR TRANSPORT STAFF NCO LEADERSHIP (AUTOMOTIVE TECHNICIANS)

Course Number: None.
Location: Service Support Schools, Cpl. Lejeune, NC.
Length: 13 weeks (467 hours).
Exhibit Dates: 7/73-Present.

Objectives: Upon successful completion of this course, student will be able to supervise personnel performing inspection, repair, and replacement of all automotive wheeled vehicle components. Student will also be able to supervise the operation of a motor pool and motor vehicle use.

Instruction: Lecture-demonstrations and practical applications in the following areas: fuel and electrical systems, diesel engines, spark ignition engines, chassis and braking, body and fender repair, spark ignition engine tune-up, and motor transport supply, operation, and administration.

Credit Recommendation: In the vocational certificate category, 2 semester hours in automotive electrical systems (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in introductory auto mechanics, 2 in automotive electrical systems (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in introductory auto mechanics, 2 in automotive electrical systems (7/74).
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COURSE EXHIBITS

MC-1704-0005

ASSAULT AMPHIBIAN VEHICLE CREWMAN (AMPHIBIAN VEHICLE CREWMAN)

Course Number: None.

Location: Tracked Vehicle School, Cp. Lejeune, NC.

Length: 8-11 weeks (301-385 hours).


Objectives: To train enlisted personnel to perform the repair and camouflage of military structures and facilities.

Instruction: Lectures and practical exercises in the functions of an amphibian tractor crewman, including operation and driving procedures, gunnery, communications, procedures and equipment, preventive maintenance and systems analysis, tactics, map reading, and elementary hydrography.

Credit Recommendation: Insufficient data for evaluation (4/74).

MC-1710-0004

ARMORED AMPHIBIAN CREWMAN TRAINING, LVTAS, LVTTP

Course Number: None.

Location: Tracked Vehicle Training Battalion, Cp. Pendleton, CA.

Length: 6 weeks (283 hours).

Exhibit Dates: 12/54-12/68.

Objectives: To train enlisted personnel to perform as armored amphibian crewmen.

Instruction: Lectures and practical exercises in the functions of an armored amphibian crewman, including operations and driving procedures, gunnery, communications, procedures and equipment, preventive maintenance and systems analysis, tactics, map reading, and elementary hydrography.

Credit Recommendation: Insufficient data for evaluation (4/74).

MC-1710-0005

AMPHIBIAN TRACTOR CREWMAN TRAINING LVTAC, LVTTP

Course Number: None.

Location: Tracked Vehicle Training Battalion, Cp. Pendleton, CA.

Length: 6 weeks (283 hours).

Exhibit Dates: 12/54-12/68.

Objectives: To train enlisted personnel to perform as amphibian tractor crewmen.

Instruction: Lectures and practical exercises in the functions of an amphibian tractor crewman, including operation and driving procedures, gunnery, communications, procedures and equipment, preventive maintenance and systems analysis, tactics, map reading, and elementary hydrography.

Credit Recommendation: Insufficient data for evaluation (4/74).

MC-1710-0006

BASIC TANK CREWMAN

Course Number: None.

Location: Headquarters, Schools Battalion, Cp. Pendleton, CA.

Length: 4 weeks (154 hours).

Exhibit Dates: 7/65-12/73.

Objectives: To train enlisted personnel to perform as tank crewmen.

Instruction: Lectures and practical exercises in the functions of the tank crewmen, in-
including employment of organic communications equipment (prehensile and decontamination procedures), driving, sighting and fire control instruments, conduct of fire, subcaliber firing, service firing, and preventive maintenance procedures.

Credit Recommendation: No credit because of the military nature of the course (4/74).

MC-1710-0007

TRACKED VEHICLE REPAIRMAN ADVANCED (ADVANCED TRACKED VEHICLE REPAIRMAN)

Course Number: None.
Location: Headquarters, Schools Battalion, Cpl. Pendleton, CA; Tracked Vehicle School, Cpl. Pendleton, CA.
Length: 6-12 weeks (276-424 hours).
Exhibit Dates: 7/58-12/74.
Objectives: To train enlisted personnel to maintain tracked combat vehicles.

Instructor: Lectures and practical exercises in the maintenance of tracked combat vehicles, including maintenance management, engine, hull, turret, suspension, and power train; electrical components; practical applications; and troubleshooting and repair of transmissions.

Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in mechanical technology (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in mechanical technology (4/74).

MC-1710-0008

TURRET REPAIRMAN.

Course Number: None.
Location: Tracked Vehicle Repairman School, Cpl. Pendleton, CA.
Length: 12 weeks (480 hours).
Exhibit Dates: 7/58-12/74.
Objectives: To train enlisted personnel to repair and maintain the turrets and armament systems of tanks, armored amphibious tractors, and other combat vehicles.

Instructor: Lectures and practical exercises in the repair and maintenance of the turrets and armament systems of tanks, armored amphibious tractors, and other combat vehicles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in mechanical or industrial technology (4/74).

MC-1710-0009

TANK UNIT LEADERS (ENLISTED)

Course Number: None.
Location: Tracked Vehicle Operations School, Cpl. Pendleton, CA.
Length: 12 weeks (488 hours).
Exhibit Dates: 7/58-12/74.
Objectives: To train noncommissioned officers to perform as members of tank crews.

Instructor: Lectures and practical exercises in leadership, tactics, and techniques of tank operations, including tank communications equipment, troubleshooting, operation, and maintenance of specific equipment electrical systems, engines, and transmissions; flame tank familiarization; turret electrical, hydraulic, and manual controls; turret mount equipment; driving; map reading; and logistics and leadership training.

Credit Recommendation: No credit because of the military nature of the course (4/74).

MC-1710-0010

ASSAULT AMPHIBIOUS VEHICLE UNIT LEADER (AMPHIBIOUS VEHICLE UNIT LEADERS (ENLISTED))

Course Number: None.
Location: Schools Battalion, Cpl. Pendleton, CA; Tracked Vehicle Operations School, Cpl. Pendleton, CA.
Length: 5-12 weeks (197-528 hours).
Exhibit Dates: 7/58-Present.
Objectives: To train enlisted personnel to supervise amphibious vehicle crews.

Instructor: Lectures and practical exercises in amphibious vehicle operations, including: operation, inspection, and maintenance of power train, engines, and turrets; hull, track, and suspension systems; electrical systems; equipment installation and direct fire gunnery procedures; tactics; logistics; and leadership training.

Credit Recommendation: No credit because of the military nature of the course (4/74).

MC-1710-0011

1. ARTILLERY WEAPONS REPAIRMAN
   2. ARTILLERY WEAPONS REPAIRMAN (BASIC)

Course Number: None.
Location: Ordnance School, Quantico, VA.
Objectives: To train noncommissioned officers to maintain and repair artillery weapons and related material and mounts.

Instructor: Lectures and practical exercises in the maintenance and repair of artillery weapons and related material and mounts, including use of measuring instruments and hand tools, inspection techniques, and repair of howitzers, mortars, and cannons.

Credit Recommendation: Version 1: In the vocational certificate category, 1 semester hour in mechanical repair technology (5/74). Version 2: In the vocational certificate category, 2 semester hours in mechanical repair technology (5/74).

MC-1710-0012

JOURNEYMAN PLUMBING AND WATER SUPPLY MAN
   (PLUMBING AND WATER SUPPLY JOURNEYMAN)

Course Number: None.
Location: Engineer School, Cpl. Lejeune, NC.
Length: 12 weeks (417 hours).
Exhibit Dates: 1/71-Present.

Objectives: To qualify noncommissioned officers who have completed the basic plumbing and water supply man course as journeymen.

Instructor: Lectures and practical exercises in the skills of a journeyman plumbing and water supply man, including: supply procedures and systems control; installation and repair of plumbing, heating, and sewage systems; water supply equipment and water purification equipment; development of water sources and points; and well drilling.

Credit Recommendation: In the vocational certificate category, 6 semester hours in plumbing and water supply, plumbing heating, environmental technology, water resources, or water treatment (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in plumbing and water supply, plumbing and heating, environmental technology, water resources, or water treatment (5/74); in the upper-division baccalaureate category, 4 semester hours in plumbing and water supply, plumbing, and heating, environmental technology, water resources, or water treatment (5/74).

MC-1710-0013

1. BASIC PLUMBING AND WATER SUPPLY MAN
2. PLUMBING AND WATER SUPPLY MAN
3. PLUMBING AND WATER SUPPLY MAN

Course Number: None.
Location: Engineer School, Cpl. Lejeune, NC.
Objectives: To train enlisted personnel to install, operate, and maintain water supply and plumbing equipment.

Instructor: All Versions: Lectures and practical exercises in the installation, operation, and maintenance of water supply and plumbing equipment, including plumbing, sewage, and heating systems; purification and distillation equipment; reconnaissance and development of water points and sources; water distribution equipment; quality control; and portable water supply equipment. Version 2: Includes well drilling and jetting, and reciprocating and deep-well pumps. Version 3: Includes principles, characteristics, and maintenance of gas and diesel engines; and mine warfare.

Credit Recommendation: Version 1: In the vocational certificate category, 4 semester hours in beginning plumbing and water supply or environmental technology (water) (5/74). Version 2: In the upper-division baccalaureate/associate degree category, 1 semester hour in beginning plumbing and water supply or environmental technology (water) (5/74). Version 2: In the vocational certificate category, 6 semester hours in beginning plumbing and water supply or environmental technology (water) (5/74). Version 2: In the upper-division baccalaureate/associate degree category, 3 semester hours in beginning plumbing and water supply or environmental technology (water) (5/74) in the upper-division baccalaureate/associate degree category, 1 semester hour in beginning plumbing and water supply or environmental technology (water) (5/74).
MC-1710-0014

UTILITIES CHIEF

Course Number: None
Location: Engineer School, Cp. Lejeune, NC.
Length: Version 1: 6 weeks (420 hours).
Exhibit Dates: 6/62-12/68.
Objectives: To train warrant officers and lieutenants in the technical aspects of Marine Corps utilities systems.
Instruction: Lectures and practical exercises in the technical aspects of the utilities field, including water supply and plumbing, electrical systems, refrigeration, field problems, internal-combustion engines, Marine Corps supply system, engineering supply, supply allowances, publications, decontamination, and terminology, definitions and usages.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in building construction and supervision (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in building construction and supervision (5/74).

MC-1710-0016

ENGINEER EQUIPMENT CHIEF

Course Number: None
Location: Engineer School, Cp. Lejeune, NC.
Objectives: To train warrant officers and lieutenants in the operation and repair of mechanical equipment.
Instruction: Lectures and practical exercises in the supervision of mechanical equipment, operation and repair, including maintenance procedures; production capability; troubleshooting; dozers, compacters and other equipment; road design and construction; excavation; basic internal-combustion theory and repair; automotive power train theory and repair; and arc and gas welding. Version 2: Includes general mechanical repair. Version 3: Includes general mechanical repair, with emphasis on sheet metal and welding. Version 4: Includes general mechanical repair, with emphasis on sheet metal and welding.
Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in automotive technology. Version 2: In automotive power trains, 4 in civil construction technology (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive technology. Version 3: In automotive power trains, 4 in civil construction technology (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive technology. Version 4: In the lower-division baccalaureate/associate degree category, 6 semester hours in construction technology (7/74).

MC-1710-0019

COMBAT ENGINEER (ADVANCED)

Course Number: None
Location: Engineer School, Cp. Lejeune, NC.
Objectives: To train enlisted personnel to supervise combat engineering projects.
Instruction: Lectures and practical exercises in combat engineering, including blueprint reading, construction surveying, route reconnaissance, soils engineering, building construction, bridges, utilities, hand and power woodworking tools operation, estimating procedures, and roads and airfield construction.
Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in engineering construction (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in engineering construction (6/74); in the upper-division baccalaureate category, 3 semester hours in engineering construction (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in engineering construction (6/74).
construction (6/74); in the upper-division baccalaureate category, 6 semester hours in engineering construction (12/68). Version J: In the vocational certificate category, 8 semester hours in engineering construction (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in engineering construction (6/74); in the upper-division baccalaureate category, 6 semester hours in engineering construction (12/68).

MC-1710-0020

COMBAT ENGINEER BASIC SPECIALIST

Course Number: None.
Location: Engineer School, Cp. Lejeune, NC.
Length: 4-13 weeks (160-407 hours).
Exhibit Dates: 6/62-12/68.
Objectives: To train enlisted personnel to use hand and power tools and to construct buildings and bridges.
Instruction: Lectures and practical exercises in the principles and techniques of oxyacetylene, electric, and inert-gas welding.
Credit Recommendation: In the vocational certificate category, 1 semester hour in hands-on construction (5/74).

MC-1710-0021

WELDERS

Course Number: None.
Location: Engineer School, Cp. Lejeune, NC.
Length: 6 weeks (185 hours).
Exhibit Dates: 5/62-12/68.
Objectives: To train enlisted personnel in the principles and techniques of oxyacetylene, electric, and inert-gas welding.
Instruction: Lectures and practical exercises in the principles and techniques of oxyacetylene, electric, and inert-gas welding. Course includes oxyacetylene and electric arc welding in flat, vertical, horizontal, and overhead positions; safety precautions; cutting procedures; brazing ferrous and nonferrous metals; soldering techniques; procedures for hard-surfacing metals; procedures for welding armor plate; and tungsten inert-gas welding procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in welding (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in welding (5/74).

MC-1710-0022

TRACKED VEHICLE MAINTENANCE OFFICER

Course Number: None.
Location: Schools Battalion, Cp. Pendleton, CA.
Length: 3-4 weeks (125-163 hours).
Exhibit Dates: 1/72-12/74.
Objectives: To train commissioned officers and senior staff NCOs to manage a tracked-vehicle maintenance group. Course includes tracked-vehicle familiarization, supply maintenance, and maintenance management.
Credit Recommendation: No credit because of the limited specialized nature of the course (7/74).

MC-1710-0023

WEAPONS REPAIR OFFICER

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 9 weeks (360 hours).
Exhibit Dates: 7/55-12/73.
Objectives: To train company grade officers to maintain and repair infantry and artillery weapons, including guided missile and free-rocket launchers and related control equipment.
Instruction: Lectures and practical exercises in the maintenance and repair of infantry and artillery weapons. Course includes repair shop procedures, artillery fundamentals, artillery weapons repair, tank gun mount, guided missile launcher, and inspection and repair of infantry weapons.
Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in mechanical or industrial technology (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in mechanical or industrial technology (7/74).

MC-1710-0024

ENGINEER EQUIPMENT MECHANIC FOREMAN

Course Number: None.
Location: Engineer School, Cp. Lejeune, NC.
Length: 19 weeks (537 hours).
Exhibit Dates: 7/55-12/68.
Objectives: To train enlisted personnel to supervise the repair of engine equipment, diesel engines, and gasoline- and diesel-powered construction equipment.
Instruction: Lectures and practical exercises in the supervision of the repair of engine equipment, diesel engines, and gasoline- and diesel-powered construction equipment, including maintenance and replacement of diesel engines, TD 18-A tractors, gasoline engines, M-RS tractors, hystaway cranes, tandem rollers, air compressors, cranes, crawler crane shovels, graders, TD 24 tractors, well rigs, concrete mixers, and ditches.
Credit Recommendation: In the vocational certificate category, 10 semester hours in heavy equipment programs, 4 in automotive area, 4 in diesel mechanics area (7/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in heavy equipment, 4 in automotive area, 4 in diesel mechanics area (7/74).

MC-1710-0025

JOURNEYMAN ENGINEER EQUIPMENT MECHANIC

Course Number: None.
Location: Engineer School, Cp. Lejeune, NC.
Length: 23 weeks (872 hours).
Exhibit Dates: 7/70-Present.
Objectives: To upgrade training of enlisted personnel to perform duties previously performed by officers.
Instruction: Lectures and practical exercises in principles of operation, construction and components of internal combustion engines; operation and repair of the mechanical, air, and hydraulic systems of mobile material handling equipment, tractors, cranes, graders, air compressors, and rock crushers.
Credit Recommendation: In the vocational certificate category, 5 semester hours in internal combustion engine repair, 2 in mobile material handling equipment repair, 5 in tractors and tractor attachment repair, 5 in crawler and truck mounted crane repair, 2 in grader repair, and 1 in stationary equipment repair (air compressors and rock crushers) (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in internal combustion engines, 2 in material handling and 3 in engineering equipment (6/75).

MC-1710-0026

ENGINEER EQUIPMENT FOREMAN

Course Number: None.
Location: Engineer School Battalion, Cp. Lejeune, NC.
Length: 19 weeks (678 hours).
Exhibit Dates: 7/55-12/68.
Objectives: To train officers to supervise the operation of tractors, shovels, cranes, and other road machinery.
Instruction: Lectures and practical exercises in heavy equipment operation and supervision, including tractors, shovels, cranes, and road machinery; diesel engine principles; construction planning; administration and supply procedures; and safety precautions.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in heavy construction, 6 in heavy equipment operation (4/74).

MC-1710-0027

ARTILLERY WEAPONS REPAIRMAN (ADVANCED)

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 6 weeks (226-229 hours).
Exhibit Dates: 7/60-12/68.
Objectives: To train commissioned officers to supervise the repair of artillery.
Instruction: Lectures and practical exercises in shop management and operation; inspection, disassembly, repair, reassembly, and testing of artillery, tank weapons, and mortars.
Credit Recommendation: In the vocational certificate category, 2 semester hours in mechanical technology (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in mechanical technology (5/74).

MC-1710-0028

TURRET REPAIRMAN

Course Number: None.
Location: Schools Battalion, Cp. Pendleton, CA.
Length: 2 weeks (91 hours).
Exhibit Dates: 2/72-Present.
Objectives: To train commissioned officers to diagnose and repair turret mounted artillery.
COURSE EXHIBITS

Instruction: Lectures and practical exercises in the diagnosis and repair of malfunctions of several types of equipment mounted on turrets and turrets operating mechanisms to include procedures for correction of malfunctions.

Credit Recommendation: In the vocational certificate category. 1 semester hour in electrical technology (11/73).  

MC-1714-0003

1. BASIC ELECTRICIAN  
2. ELECTRICIAN  
3. ELECTRICIAN 

Course Number: None.  
Location: Engineer School, Cp. Lejeune, NC. 
Length: Version 1: 6 weeks (220 hours).  
Version 2: 4 weeks (160 hours).  
Version 3: 12 weeks (359 hours).  
Version 4: 18 weeks (524 hours).


Objectives: To train enlisted personnel with the knowledge and skills required to perform as journeyman electricians.

Instruction: Lectures and practical exercises in basic machine shop practices, organization and administration of repair shops, disassembly, assembly, inspection, repair, and troubleshooting of specific weapons and ancillary equipment to include grenade launchers, rifles, machine guns, hand guns, mortars, rifles, scope, and hand tools.

Credit Recommendation: In the vocational certificate category, 4 semester hours in mechanical technology, 1 in introduction to machine shop (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in industrial management, 3 in mechanical technology, 1 in introduction to machine shop (5/74).

MC-1714-0001  
JOURNEYMAN ELECTRICIAN

Course Number: None.  
Location: Engineer School, Cp. Lejeune, NC.  
Length: 18 weeks (434 hours).  
Exhibit Dates: 11/70-Present.  
Objectives: To train selected enlisted personnel with the knowledge and skills required to perform as journeymen electricians.

Instruction: Coverage of AC/DC electrical theory, including reactance and impedance, interior wiring, pole line construction, motors, generators, supply procedures and organization.

Credit Recommendation: In the vocational certificate category, 15 semester hours in electrical technology (11/73).

MC-1714-0002  
ELECTRICAL EQUIPMENT REPAIRMAN

Course Number: None.  
Location: Engineer School, Cp. Lejeune, NC.  
Length: 13 weeks (503 hours).  
Exhibit Dates: 9/68-Present.

Objectives: To train technicians in the repair of electrical equipment and control devices with particular emphasis upon the repair of field power-generating equipment.

Instruction: Mathematics; theory of electricity and simple electrical components; AC and DC current and circuit components; electronics and electronic devices; control devices and their circuits; DC and AC motors and generators; internal-combustion engines; troubleshooting electrical systems; supply and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 10 semester hours in electrical technology (11/73).  

MC-1714-0004  
TELEPHONE REPAIR

Course Number: None.  
Location: Communication-Electronics School, San Diego, CA.

Length: 22 weeks (770 hours).  
Exhibit Dates: 7/72-12/77.

Objectives: To train personnel to install and maintain telephone equipment.

Instruction: Lectures and practical exercises in the operation and diagnosis of malfunctions of electrical components and control systems of the Fleet Marine Force including telephone theory and principles, internal-combustion engines, electrical motors and generators, electrical distribution and construction, and interior wiring methods and materials.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electricity, 6 in electrical construction and maintenance (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity, 6 in electrical construction and maintenance (4/74).
Objectives: To qualify technicians in the techniques and application of electronic counter-countermeasures.

Instruction: Specific circuit theory; recognition, correction, and/or defensive action taken to combat various types, methods and characteristics of electronic countermeasures which may be encountered by a MACCS in an electronic warfare environment.

Credit Recommendation: No credit because of the military nature of the course (11/73).

MC-1715-0002
Officer Electronic Warfare

Course Number: None.

Location: Communication-Electronics School, San Diego, CA.

Length: 2 weeks (98 hours).

Exhibit Dates: 8/69-Present.

Objectives: To provide instruction to qualify officers in the techniques and application of electronic warfare.

Instruction: History, concepts, terminology and application of past, present, and future techniques; specific circuit theory; recognition, corrective, and/or defensive action taken to combat various types of jamming; methods and characteristics of electronic countermeasures.

Credit Recommendation: No credit because of the military nature of the course (11/73).

MC-1715-0003

1. ARTILLERY ELECTRONIC EQUIPMENT REPAIR

2. ARTILLERY ELECTRONIC EQUIPMENT REPAIR

Course Number: None.

Location: Communication-Electronics School, Twentynine Palms, CA.

Length: 9-11 weeks (318-407 hours).


Objectives: To train enlisted personnel to test, troubleshoot, and maintain specific military equipment.

Instruction: Introduction to field artillery electronic equipment, including maintenance and repair of a radar chronograph, microwave distance-measuring equipment, field artillery digital computer, and associated equipment.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in communications technology (2/76). Version 2: No credit because of the limited specialized nature of the course (11/73).

MC-1715-0004

1. BASIC ELECTRONICS

2. ELECTRONIC FUNDAMENTALS

3. BASIC ELECTRONICS

4. BASIC ELECTRONICS

Course Number: None.

Location: Communication-Electronics School, Twentynine Palms, CA.


Objectives: To train enlisted personnel in the fundamentals of electronics.

Instruction: Lectures and practical experience in electrical principles, vacuum tube and semiconductor fundamentals, electronic circuit analysis, and digital and circuit principles.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 9 semester hours in industrial electronics technology (2/76). Version 2: In the vocational certificate category, 18 semester hours in electricity and electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity and electronics, 3 in computers (3/74); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics, and additional credit in electronics laboratory on the basis of institutional evaluation (3/74). Version 3: In the vocational certificate category, 18 semester hours in electricity and electronics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity and electronics, 3 in computers (3/74); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics, and additional credit in electronics laboratory on the basis of institutional evaluation (3/74).

MC-1715-0005

TECHNICIAN THEORY

Course Number: None.

Location: Communication-Electronics School, Twentynine Palms, CA.

Length: 6 weeks (210 hours).


Objectives: To provide enlisted personnel with training in advanced electronic theory as a foundation for equipment-oriented instruction in radar, aviation, and radio technology.

Instruction: Lectures and practical laboratory applications in DC and AC circuit analysis, mathematics and physics, electron tube and transistor theory, amplifier circuit analysis, oscillators, switching circuits, power supplies, principles of digital computers, and digital computers. Lectural topics include characteristics and devices (including general theory), synchrons and servos, modulation and detection, antennas and test instruments.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 21 semester hours in electronics engineering technology (2/76). Version 2: In the vocational certificate category, 9 semester hours in the basis of institutional evaluation (3/74).

MC-1715-0006

COMMUNICATION CENTRAL, AN/TGC-37, SYSTEM MAINTENANCE (MOBILE COMMUNICATION CENTRAL TECHNICIAN)

Course Number: None.

Location: Communication-Electronics School, Twentynine Palms, CA.

Length 6 weeks (210 hours).


Objectives: To train enlisted personnel in the operation, maintenance, and repair of specific types of telegraph systems.

Instruction: Practical experience in the maintenance, operation, repair and systems analysis of patch panels and switchboards, voice frequency telegraphs, and test equipment.

Credit Recommendation: No credit because of the limited specialized nature of the course (3/74).

MC-1715-0007

TERMINAL EQUIPMENT THEORY

Course Number: None.

Location: Communication-Electronics School, Twentynine Palms, CA.

Length: 8 weeks (242-302 hours).


Objectives: To provide enlisted personnel with training in the theory and principles of digital computer circuits and systems.

Instruction: Lectures and laboratories in basic logic circuits, theory of operation and troubleshooting of a central purpose digital computer; repair of PC cards and digital circuits. Version 2: Lectures and laboratories in basic logic circuit, theory of operation and troubleshooting of the Bii-Tran 6 and TH-85, and use of dual-trace oscilloscopes and patch kits.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 7 semester hours in electronic engineering technology (2/76). Version 2: In the vocational certificate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).
MC-1715-0008

RADIO RELAY REPAIR

Course Number: None.


Objectives: To train radio repairmen to repair and maintain telephone-telegraph terminal equipment.

Instruction: Lectures and laboratories in the principles of multiplexing and the theory, operation, and maintenance of telephone-telegraph equipment.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in electrical laboratory, and credit in electrical laboratory on the basis of institutional evaluation (3/74); in the lower-division bachelor/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74). Version 2: In the vocational certificate category, 2 semester hours in electrical laboratory, and credit in electrical laboratory on the basis of institutional evaluation (3/74); in the lower-division bachelor/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74). Version 3: In the vocational certificate category, 2 semester hours in electrical laboratory, and credit in electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in electronic communications (12/68).

MC-1715-0009

GROUND RADIO REPAIR

Course Number: None.


Objectives: To train enlisted personnel to operate, test and repair ground radio equipment.

Instruction: Lectures and laboratories in FM radio equipment maintenance, including transmitter, receiver, and special circuits operation; and various alignment, testing, overhaul and troubleshooting procedures.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in communications technology (2/76). Version 2: In the vocational certificate category, 3 semester hours in electronics, 1 in electrical laboratory (3/74). Version 3: In the vocational certificate category, 3 semester hours in electronics, 1 in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (12/68).

MC-1715-0010

RADIO FUNDAMENTALS

Course Number: None.


Objectives: To prepare enlisted military personnel to maintain, test, adjust, and repair specific military radio sets.


Credit Recommendation: Version 1: In the vocational certificate category, 6 semester hours in communication technology (2/76). Version 2: In the vocational certificate category, 6 semester hours in electronic communications, 2 in electronic communications laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications, 1 in electronic communications laboratory (3/74). Version 3: In the vocational certificate category, 6 semester hours in electronic communications, 2 in electronic communications laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic communications (12/68).

MC-1715-0011

AVIATION RADIO REPAIR

Course Number: None.

Location: Communication-Electronics School, Twentynine Palms, CA.

Length: 8-15 weeks (350-490 hours).

Exhibit Dates: 7/56-12/72.

Objectives: To train enlisted personnel who have completed a basic electronics course to repair telephone/teletype equipment.

Instruction: Lectures and laboratories in telephone/teletype equipment repair procedures, and testing, adjustment, modification, maintenance, and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 3 semester hours in telephony, 1 in telephony laboratory (3/74).

MC-1715-0012

TELEPHONE-TELETYPE REPAIR

Course Number: None.

Location: Communication-Electronics School, Twentynine Palms, CA.

Length: 16-19 weeks (560-665 hours).

Exhibit Dates: 7/62-Present.

Objectives: To train enlisted personnel to repair telephone/teletype equipment.

Instruction: Lectures and laboratories in audio theory; tape recorders; PA systems; sound-locating equipment; intercom equipment; and mine detector installation, maintenance, and repair.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics, 1 in telecommunications laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics (3/74).

MC-1715-0013

SOUND EQUIPMENT REPAIR

Course Number: None.

Location: Communication-Electronics School, San Diego, CA.

Length: 3 weeks (105 hours).

Exhibit Dates: 7/58-12/68.

Objectives: To train enlisted personnel to install, maintain, and repair audio equipment.

Instruction: Lectures and laboratories in audio theory; tape recorders; PA systems; sound-locating equipment; intercom equipment; and mine detector installation, maintenance, and repair.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics, 1 in telecommunications laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics (3/74).

MC-1715-0014

TERMINAL EQUIPMENT REPAIR

Course Number: None.

Location: Basic Electronics School, San Diego, CA.

Length: 7 weeks (245 hours).

Exhibit Dates: 7/56-12/68.

Objectives: To train enlisted personnel to repair specific telephone and telegraph equipment.

Instruction: Lectures and practical exercises in the fundamentals of telephony and telegraphy, local terminals, radio transmis-
MC-1715-0016
TELEPHONE SYSTEM, TRANSPORTABLE AN/TTC-28
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 6 weeks (216 hours).
Exhibit Dates: 1/74-6/74.
Objectives: To train central office repairmen to test, adjust, modify, and repair the AN/TTC-28 transportable telephone system in field maintenance support shops.
Instruction: Lectures include telephone systems introduction, telephone schematic diagrams, field installation, troubleshooting, and repair procedures.
Credit Recommendation: In the vocational certificate category, 6 semester hours in computer technology.
Recommendation: No credit because of the limited specialized nature of the course (3/74).

MC-1715-0017
MTDS FUNDAMENTALS
(MARINE TACTICAL DATA SYSTEMS FUNDAMENTALS)
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 11 weeks (378 hours).
Exhibit Dates: 5/66-12/66.
Objectives: To provide enlisted personnel with training in basic theory of special-purpose semiconductor and electronic circuits used in digital data handling equipment.
Instruction: Lectures and practical demonstrations in solid-state devices and circuits, counters and other computer circuits, number systems, Boolean algebra, and reduction, logic gates, symbolic logic truth tables, Vichy diagrams, voltage dividers, semiconductor basics, electronic safety measurements, transformer review, oscillators, various diodes, oscilloscopes, radar fundamentals, amplifiers, power supplies, data system servicing techniques and peripheral equipment fundamentals, and data system tactical air operations central timing and control functions.
Credit Recommendation: In the vocational certificate category, 6 semester hours in computer technology, 4 in solid-state electronics, and, on the basis of institutional evaluation, credit in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer technology, 3 in solid-state electronics, and, on the basis of institutional evaluation, credit in electrical laboratory (3/74); in the upper-division baccalaureate category, 2 semester hours in digital systems, 2 in solid-state electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

MC-1715-0018
DIGITAL REPAIR
(TACTICAL AIR OPERATIONS CENTRAL (TAOC) DIGITAL REPAIR)
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 14 weeks (400 hours).
Exhibit Dates: 4/66-10/66.
Objectives: To train enlisted personnel to operate, install, adjust, and repair digital systems in the Tactical Air Operations Data System.
Instruction: Lectures and demonstrations in digital IFF data processor group, polar-to-Cartesian converter, correlator, height finder programmer and buffer, automatic tracking unit, intercept computer, information and action unit, operation and maintenance units, drum fill unit, power distribution and power supplies, basic functioning, installation, adjustment, and repair; supply administration, telecommunication equipment, telecommunication maintenance publications; and peripheral equipment fundamentals.
Credit Recommendation: No credit because of the limited specialized nature of the course (3/74).

MC-1715-0019
DATA HANDLING REPAIR
(TACTICAL AIR OPERATIONS CENTRAL (TAOC) DATA HANDLING REPAIR)
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 14 weeks (490 hours).
Exhibit Dates: 7/67-12/68.
Objectives: To train enlisted personnel to operate, install, adjust, and repair tactical data systems data-handling sections.
Instruction: Lectures and laboratories in circuitry and functioning of digital data programmers, digital data buffers, intercenter data terminals, tactical data communication central buffers, missile data terminals, telemetry, computers, data links, type buffers, intercommunications, communication central groups, operation and maintenance, and power distribution.
Credit Recommendation: No credit because of the limited specialized nature of the course (3/74).

MC-1715-0020
TACTICAL AIR COMMAND CENTRAL (TACCENT)
AN/TYO-1) REPAIR
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 15-18 weeks (537-623 hours).
Exhibit Dates: 6/73-9/73.
Objectives: To train enlisted personnel to install, maintain, and repair the tactical air command central and its module and card subassemblies.
Instruction: Lectures and practical exercises in maintenance test procedures, use of tools and test equipment, digital test sets, integral test features, diagnostic routines, and special failure-reporting procedures, and familiarization, with marine, naval, and airborne tactical data systems.
Credit Recommendation: No credit because of the limited specialized nature of the course (3/74).

MC-1715-0021
MARINE TACTICAL DATA SYSTEM (MTDS) WEAPONS CONTROLLER/OPERATOR
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 7/67-12/68.
Objectives: To train enlisted personnel to operate and supervise AN/TTY-A-9 operator shelters.
Instruction: Lectures and practical exercises in manual target detection, acquisition, and rate-aided tracking; automatic detection, acquisition; and tracking of aircraft; and identification of air targets on the basis of flight plans, identification friend-or-foe (IFF) data, speed, communication checks, aircraft orbit points, and rearranged maneuvers. Controllers also learn computer-aided track evaluation and weapon target pairing. Operators also learn automatic tracking of data link-equipped aircraft and voice control of non-data-link-equipped aircraft.
Credit Recommendation: No credit because of the military nature of the course (3/74).

MC-1715-0022
TACTICAL DATA SYSTEM HANDLING REPAIR
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 14 weeks (483 hours).
Exhibit Dates: 6/69-12/73.
Objectives: To train enlisted personnel to maintain tactical data system equipment and associated subunits and circuits.
Instruction: Lectures and laboratories in external and internal digital data links, ground-air-ground data communication, tactical data communication teletype systems, data line programmers and buffers, data link terminals, intercoms, voice communication apparatus, display generation equipment, and data-handling equipment maintenance.
Credit Recommendation: In the vocational certificate category, credit in electrical laboratory or computer technology on the basis of institutional evaluation (3/74).

MC-1715-0023
ANALOG REPAIR
(TACTICAL AIR OPERATIONS CENTRAL (TAOC) ANALOG REPAIR)
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 14 weeks (490 hours).
Exhibit Dates: 7/67-12/68.
Objectives: To train enlisted personnel as tactical data systems analog repairmen.
Instruction: Lectures and laboratories in system operation, installation, and repair; interrelation of subunits and circuits; corrective and preventive maintenance procedures; and use of test equipment.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

MC-1715-0024
MICROWAVE EQUIPMENT OPERATOR (MEOC)
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 3 weeks (105-112 hours).
Exhibit Dates: 7/72-9/73.
Objectives: To train microwave operators to operate and maintain AN/MEC-1C equipment.
Instruction: Lectures and practical exercises in basic microwave theory, microwave components, microwave measurement techniques, and troubleshooting.
Credit Recommendation: No credit because of the military nature of the course (3/74).
COURSE EXHIBITS

Objectives: To train enlisted personnel to operate microwave equipment.

Instruction: Lectures in microwave principles, fundamentals, manuals introduction, safety precautions, receiver and transmitter analysis, various radio sets analyses, multiplexer analysis and alignment procedures, profile graphs preparation, preventive maintenance and troubleshooting procedures.

Credit Recommendation: No credit because of the limited specialized nature of the course (3/74).

MC-1715-0025
Radio Operator

Course Number: None.
Location: Air Station, Cherry Point, NC.
Length: 16 weeks (640 hours).
Exhibit Dates: 7/58-12/68.

Objectives: To train officers and enlisted personnel as radio operators.

Instruction: Lectures and practical exercises in code reception and transmission, radiotelegraph procedures, radio telephone procedures, primary, electrical theory, avionics equipment, communications, and legal flight communications, and preflight and flight procedures.

Credit Recommendation: Insufficient data for evaluation (3/74).

MC-1715-0026
Tactical Data Communications Central

(TDCC AN/TTY-3) Technician

Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 44 weeks (1540 hours).
Exhibit Dates: 12/71-Present.

Objectives: To train enlisted personnel to install, operate, test, and maintain data communications systems.

Instruction: Lectures and practical exercises in the operation and maintenance of tactical data communications central, including basic digital system theory and computer fundamentals, SSB, transmission links, MODEMS, components of equipment, and troubleshooting of specific functional digital circuits.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 2 in electronics laboratory (3/74); in the upper-division baccalaureate category, 6 semester hours in electronic communications (3/74).

MC-1715-0027
Test Instrument Repairman

Course Number: None.
Location: Supply Center, Albany, GA.
Length: 16-17 weeks (622-648 hours).
Exhibit Dates: 6/69-Present.

Objectives: To train enlisted personnel who have prior training in basic electronics and radar fundamentals to maintain and repair electrical and electronic test and measuring instruments.

Instruction: Lectures and practical exercises in the maintenance of electrical and electronic test and measuring instruments, including general and specialized electronic theory, logical troubleshooting, circuit analysis, and basic measurement methods and techniques.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electronics, 6 in electronics laboratory (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics, 3 in microwave electronics, 3 in electronics or microwave laboratory (6/75); in the upper-division baccalaureate category, 6 credits in electronics laboratory on the basis of institutional evaluation (6/75).

MC-1715-0028
Telephone Teletype Repair (Special)

Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 14 weeks (490 hours).

Objectives: To train enlisted personnel to maintain and repair teletype and telephone systems.

Instruction: Lectures and practical experience in maintenance and repair of teletype and telephone systems, including electrical and mechanical fundamentals, basic electronic circuitry, transistor operation, and troubleshooting and adjustment techniques.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronic communications, 5 in electromechanical communications laboratory (3/74).

MC-1715-0029
Radio Technician

Course Number: None.

Objectives: To train electronics technicians to test, adjust, and repair communication-electronic equipment.

Instruction: All Versions: Lectures and demonstrations in multichannel single-sideband equipment theory and servicing. Version 2: Instruction includes troposcatter communications systems theory and servicing, direction-finding equipment, and limited cryptographic maintenance. Version 3: Instruction includes troposcatter communications systems theory and servicing, direction-finding equipment, and limited cryptographic maintenance. Version 4: Instruction includes troposcatter communications systems theory and servicing, direction-finding equipment, and limited cryptographic maintenance. Addition: Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective-in electronics (3/74). Version 3: In the vocational certificate category, 6 semester hours in electronics, 2 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics (3/74). Version 4: In the vocational certificate category, 9 semester hours in electronics, 3 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electrical laboratory (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in electrical laboratory (3/74).

MC-1715-0030
Communications Central Group AN/TYA-1 Technician

Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 5 weeks (140 hours).
Exhibit Dates: 6/72-12/73.

Objectives: To train radio technicians to test, adjust, and repair a specific communications terminal system.

Instruction: Lectures and practical exercises in the maintenance and repair of the AN/TYA-1 communications central group, including block-diagram and module-by-module analysis of individual system components, theory of operation, and circuits, antennas, and power distribution information necessary for inspection and testing of equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

MC-1715-0031
Air Support Operations Operator

Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 3-4 weeks (109-145 hours).
Exhibit Dates: 1/72-Present.

Objectives: To provide instruction in the operations and tactical employment of the Direct Air Support Center, Radar Directing Center, and Airborne/Mobile Direct Air Support Center.

Instruction: Lectures and practical exercises in net operator tasks; installation of power connections, air conditioners, antennas, telephone connections, and external transceiver connections; operation of plotter and status board keepers; and ASRT radar operating procedures.

Credit Recommendation: No credit because of the limited specific nature of the course (2/76).

MC-1715-0032
Airborne Radio Operators

Course Number: Not available.
Location: Airborne Operator 8 School, Cherry Point, NC.
Length: 16 weeks (615 hours).
Exhibit Dates: 3/62-Present.
MC-1715-0033
1. Aviation Fire Control Repair
2. Aviation Fire Control Repair, AN/TPO-10 (AFC)
3. Aviation Fire Control Repair
4. Aviation Fire Control Repair

Course Number: None.

Location: Communication Electronics School, Twenty-nine Palms, CA.

Version 2: Communication Electronics School, San Diego, CA.

Version 3: Communication Electronics School, San Diego, CA.

Version 4: Basic Electronics School, San Diego, CA.

Length: Version 1: 8 weeks (320 hours).


Objectives: To provide enlisted personnel with the practical experience necessary to operate, test, and repair guided missile systems.

Instruction: Lectures and practical exercises in missile and guided missile systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in guided missile fire control Systems.

MC-1715-0034
Light Anti-Aircraft Artillery (AAA) Fire Control Repair

Course Number: None.

Location: Communication Electronics School, San Diego, CA.

Length: 16 weeks (360 hours).

Exhibit Dates: 7/58-12/68.

Objectives: To train enlisted personnel to operate, test, and repair guided missile fire control systems.

Instruction: Lectures and practical exercises in theory of operation, installation and adjustment, and maintenance of AN/GPC-1 radar systems. Highly specialized equipment course with limited educational value.

Credit Recommendation: No credit because of the limited specialized nature of the course.

MC-1715-0035
Tactical Data Systems Digital Repair

Course Number: None.

Location: Marine Corps Recruit Depot, San Diego, CA.

Length: 15 weeks (518 hours).

Exhibit Dates: 7/70-12/73.

Objectives: To train enlisted personnel to operate and maintain electronic equipment in radar IFF, logic circuitry, pulse circuits, display modules, digital repair, and universal console operations.

Instruction: Lectures and practical exercises in radar IFF, logic circuitry, pulse circuits, display modules, digital repair, and universal console operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in digital electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronic laboratory (3/74).

MC-1715-0036
Light Anti-Aircraft Artillery (AAA) Fire Control Repair

Course Number: None.

Location: Basic Electronics School, San Diego, CA.

Length: 16 weeks (560 hours).

Exhibit Dates: 7/56-12/68.

Objectives: To train enlisted personnel to operate, test, and repair light antiaircraft artillery.

Instruction: Lectures and laboratories in theory of operation and repair of the AN/GPC-1 radar set, T-37 computer, and T-21 power control. This is a highly specialized equipment course with limited academic value.

Credit Recommendation: No credit because of the limited specialized nature of the course.

MC-1715-0037
Guided Missile Fire Control Repair

Course Number: None.

Location: Basic Electronics School, San Diego, CA.

Length: 15 weeks (525 hours).

Exhibit Dates: 7/56-12/68.

Objectives: To train enlisted personnel to operate, test, and repair guided missile fire control systems.

Instruction: Lectures and practical exercises in theory of operation, installation and adjustment, and maintenance of AN/GPC-1 radar systems. Highly specialized equipment course with limited educational value.

Credit Recommendation: No credit because of the limited specialized nature of the course.

MC-1715-0038
Telephone Repair

Course Number: None.

Location: Basic Electronics School, San Diego, CA.

Length: 15 weeks (560 hours).

Exhibit Dates: 6/56-12/68.

Objectives: To train enlisted personnel to inspect, test, and maintain basic telephone equipment and cabling.

Instruction: Lectures and laboratories in mathematics, electronics, and telephony, including cable and field wiring, with emphasis on repair procedures and troubleshooting. Specialized course with little educational value.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

MC-1715-0039
Advanced Communications Officer

Course Number: None.

Location: Communication Officers School, Quantico, VA.


Objectives: To provide professional military education in communications and command and staff duties for Marine officers.

Instruction: Lectures, demonstrations, and self-paced studies in organization and tactics, amphibious operations, an overview of electrical circuits and electronics, leadership, management, and command skills, leadership, operational telecommunications including propagation, antennas, modulation, multiplexing, and specialized military systems. Version 1 includes basic DC and AC circuits (excluding network analysis and three phase).

Credit Recommendation: In the vocational certificate category, 6 semester hours in basic electrical circuits and computer systems (12/77); in the lower-division baccalaureate/associate degree category, 4 semester hours in basic electrical circuits including network analysis and laboratory (12/77). Version 2: No credit because of the limited specialized nature of the course.

MC-1715-0041
Aviation Radar Repair

Course Number: None.
MC-1715-0042
SOUND EQUIPMENT REPAIR
Course Number: Not available.
Location: Basic Electronics School, San Diego, CA.
Length: 6 weeks (210 hours).
Objectives: To train enlisted personnel to operate, test, and maintain specific sound equipment.

Instruction:
- Lectures and practical exercises in audio and magnetic recording theory, and operation and maintenance of specific sound equipment, with emphasis on troubleshooting and servicing techniques.
- Credit Recommendation: No credit because of the limited specialized nature of the course.

MC-1715-0043
MARINE TACTICAL DATA SYSTEM (MTDS) TECHNICIAN
Course Number: Not available.
Location: Communication-Electronics School, San Diego, CA.
Length: 34 weeks (1388 hours).
Objectives: To train enlisted personnel to install, repair, and maintain a tactical data system.

Instruction:
- Lectures and demonstrations on computer systems and special-purpose computer equipment and peripheral equipment.
- Radar data processing and track store data processing, installation, operation, and repair of geographic display units, weapon control systems, bookkeeping elements, internal and external digital data links, and voice communication elements.
- Credit Recommendation: No credit because of the limited specialized nature of the course.

MC-1715-0044
ADVANCED ELECTRICIAN
Course Number: None.
Location: Engineer School, Cpt. Lejeune, NC.
Length: 8 weeks (344 hours).
Objectives: To train enlisted personnel with advanced training in the servicing of electrical and electronic equipment.

Instruction:
- Lectures in basic mathematics, including graphs, logs, algebra, and geometry.
- Theory of electronics and mathematics, including Ohm's law, electromagnetic theory, including theory of radio and electronics.
- Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics and mathematics.

Location: San Diego, CA.
Length: 8 weeks (344 hours).
Objectives: To train enlisted personnel with advanced training in the servicing of electrical and electronic equipment.

Instruction:
- Lectures and practical exercises in electronics, power supplies, semiconductors, and magnetic amplifiers.
- Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in electrical and electronics.

MC-1715-0045
GROUND RADIO TECHNICIAN
Course Number: Not available.
Location: Communication-Electronics School, San Diego, CA.
Length: 24 weeks (840 hours).
Objectives: To train experienced communication-electronics equipment repairmen to install, maintain, and repair specific ground radio sets.

Instruction:
- Lectures and practical exercises in mathematics through trigonometry, vector algebra, and complex numbers.
- Credit Recommendation: No credit because of the military nature of the course.

MC-1715-0049
AVIATION ELECTRONICS OPERATOR
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 5 weeks (175 hours).
Objectives: To train enlisted personnel to operate ground-based equipment, including radio and radar equipment.

Instruction:
- Lectures and practical exercises in radio, radar, and aircraft recognition.
- Credit Recommendation: No credit because of the limited specialized nature of the course.

MC-1715-0050
WEAPONS LOCATION EQUIPMENT REPAIR
Course Number: None.
Location: Communication-Electronics School, Twenty Nine Palms, CA.
Length: 4 weeks (140-152 hours).
Objectives: To train enlisted personnel to install, repair, and maintain weapons location radar sets.

Instruction:
- Lectures and practical exercises in the maintenance and repair of weapons location radar sets.
- Credit Recommendation: In the vocational certificate category, 2 semester hours in communications technology.

MC-1715-0051
GROUND RADAR TECHNICIAN
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 6 weeks.
Objectives: To train enlisted personnel to install, maintain, and repair ground radar sets.

Instruction:
- Lectures and practical exercises in the installation and repair of ground radar sets.
- Credit Recommendation: In the vocational certificate category, 2 semester hours in communications technology.
MC-1715-0053

**TACTICAL AIR OPERATIONS CENTRAL**
(TAOC AN/TYQ-2) REPAIR
(TACTICAL AIR OPERATIONS CENTRAL REPAIRMAN (TAOCR))

**Course Number:** None.

**Location:** Communication-Electronics School, Twentynine Palms, CA.

**Length:**
- Version 1: 16 weeks (560 hours).
- Version 3: 10 weeks (350 hours).

**Exhibit Dates:**
- Version 1: 7/58–12/73.

**Objectives:** To train enlisted personnel who have completed an electronics and radar fundamentals course to install and maintain surveillance radar equipment.

**Instruction:** Lectures and practical exercises in circuit theory, circuit testing, corrective and preventive maintenance procedures, performance testing use of associated test equipment, function, and application of identification equipment, introduction to electronic warfare and electronic countermeasures, and specialized equipment.

**Credit Recommendation:**
- Version 1: In the vocational certificate category, 6 semester hours in electrical technology (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 6 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 6 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 6 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (12/68). Version 2: In the vocational certificate category, 6 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (12/68). Version 3: In the vocational certificate category, 6 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (12/68).
COURSE EXHIBITS

degree category, 2 semester hours in electricity and electronics (4/74); in the upper-
division baccalaureate category, credit in electronic laboratory on the basis of institutional
evaluation (4/74).

MC-1715-0058
AVIATION RADAR TECHNICIAN
Course Number: None.


Objectives: To provide enlisted noncommissioned officers with advanced instruction
in the erection, operation, adjustment, repair, and maintenance of special aviation equipment
and associated test equipment.

Instruction: Operation and troubleshooting procedures for interrogator sets, decoder
groups, and IFF test equipment; and main-
tenance radar sets and associated equipment.

Credit Recommendation: Version 1: In the vocatio-nal certific-ate category, 2 semester hours in communications technology (2/76). Version 2: In the vocatio-
nal category, 2 semester hours in communications technology (2/76). Version 3: In the vocational certificate category, 2 semester hours in communications technology (2/76); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications technology (2/76). Version 4: Insufficient data for evaluation (4/74).

MC-1715-0061
BASIC RADAR
Course Number: None.

Length: 13-14 weeks (455-525 hours).

Exhibit Dates: 7/56-Present.

Objectives: To train electronics technicians to test, align, troubleshoot, and main-
tain a basic radar set.

Instruction: Lectures and practical exercises in the testing, alignment, troubleshooting, and maintenance of a basic radar set, including basic radar theory, IFF, and equipment, and alignment and troubleshooting procedures for specific equipment.

Credit Recommendation: In the lower-
division baccalaureate/associate degree catego-
y, 4 semester hours in electronics (92/68).

MC-1715-0062
GROUND RADAR REPAIR
Course Number: None.


Objectives: To train enlisted personnel with electronic backgrounds to install, operate, adjust, inspect, and maintain specif-ic ground radar sets.

Instruction: All Versions: Lectures and practical exercises in the installation, operation, adjustment, inspection, and maintenance of specific ground radar sets, including basic theory of radar sets and auxiliary and test equipment, system circuit analysis, and operation of various subsystems in specific equipment. Version 2: Includes introduction to digital computer principles and circuits, number systems and symbolic notation, and an analysis of a specific ballistics computer within a radar set.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications technology (2/76). Version 3: In the vocational certificate category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications technology (2/76). Version 4: In the vocational certificate category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications technology (2/76). Version 5: Insufficient data for evaluation (4/74).

MC-1715-0063
RADAR FUNDAMENTALS
Course Number: None.


Objectives: To train enlisted personnel in the fundamental concepts of radar princi-
ple.

Instruction: All Versions: Lectures and practical exercises in the theory of elec-
tronics for analysis of radar, pulse circuits and components, including basic theory of
power supplies, timing circuits, blocking oscil-
lators, pulse amplifiers, receiver ampli-
fiers, klystrons, and antenna drive systems and 95% of oscilloscopes, signal

generators, voltmeters, and special test equip-
ment. Version 1: Includes analysis of individual stages in a representative radar

training system. Version 2: Includes control

certifier antenna drive and transistor serv-
ing principles. Course is vacuum-tube

oriented. Version 3: Course on vacuum-tube

oriented.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in communications technology for the 4-week course designed for MOS 5931, 5933 and 5934; 4 semester hours in communications technology for the 8-week course designed for MOS 5942, 5943 and 5945 (2/76). Version 2: In the vocational certificate category, 3 semester hours in electronics (4/74); in the lower-
division baccalaureate/associate degree category, 2 semester hours in electronics

(4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications technology (2/76). Version 3: In the vocational certificate category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications technology (2/76). Version 4: Insufficient data for evaluation (4/74).

MC-1715-0064
ELECTRONIC TELETYPE REPAIR
Course Number: None.
MC-1715-0065
CRYPTOGRAPHIC EQUIPMENT MAINTENANCE PREPARATORY

Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 6 weeks (210-240 hours).
Exhibit Dates: 7/62-12/68.

Objectives: To train enlisted personnel to maintain AN/TGC-14(V)/V teleprinter equipment.

Instruction: Lectures and practical exercises in AN/TGC-14/1(V) teleprinter operation, including basic electronics test equipment usage, circuit fundamentals, transistors, functional circuits, and circuit analysis; teleprinter repair and maintenance, including disassembly, inspection, reassembly, and testing.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic electronics, 1 in teleprinter technology, and 1 in electronic laboratory (5/74).

MC-1715-0066
BASIC RADIO

Course Number: None.
Location: Basic Electronics School, San Diego, CA.
Length: Version 1: 7 weeks (245 hours).
Version 2: 10 weeks (350 hours).
Exhibit Dates: Version 1: 7/58-12/68.

Objectives: To train enlisted personnel to inspect, test, and maintain basic radio equipment.

Instruction: Lectures and practical exercises in basic radio, including shop practice, radio instruments, supply, circuit analysis, antennas, frequency modulation, servicing methods, soldering techniques, types of burns, preventive maintenance, radio instruments, meters and electronic circuits, series, combination and parallel circuits, magnets, inductance, frequency modulation transmitters, noise and interference in FM Transmitter/Receiver, theory and use of TS-297 and ME-25A/U, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics and radio, 2 in communications and operation, and 1 in electronics analysis and operation, and 1 in fundamentals for application to telephone or telegraphy.

MC-1715-0067
OPERATIONS OFFICER ELECTRONIC COUNTER-COUNTERMEASURES (ECCM)

Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: 3 weeks (105 hours).
Exhibit Dates: 5/66-12/68.

Objectives: To train personnel in basic concepts of electronic countermeasures and counter-countermeasures.

Instruction: Lectures and practical exercises in electronic countermeasures and counter-countermeasures, including electronic warfare, active countermeasures, active countermeasures, ECM techniques and developments, ECM transmitter techniques and devices, transmission techniques and devices; transmitter avoidance fixes, relay techniques or non-synchronous pulses, jamming, noise and interference in FM radio; receiver techniques; transmitter techniques and devices, transmitter avoidance fixes, relay techniques or non-synchronous pulses, jamming, noise and interference in FM radio.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/74).

MC-1715-0068
SPECIAL GROUND RADIO REPAIR

Course Number: None.
Location: Communications-Electronics School, San Diego, CA.
Length: 20 weeks (700 hours).
Exhibit Dates: 7/58-12/68.

Objectives: To train personnel in special ground radio repair.

Instruction: Lectures and practical exercises in special ground radio repair, including radiotelegraphy, test and equipment and servicing methods, circuit analysis, frequency, and operation of radar, mobile, and ship radio. Credit Recommendation: Insufficient data for evaluation (6/74).

MC-1715-0069
SPECIAL ANTI-AIR WARFARE (AAW) BATTERYMAN

Course Number: None.
Location: Air Reserve Missile Training Detachment, Twentynine Palms, CA.
Length: 7 weeks (210 hours).
Exhibit Dates: 11/66-12/68.

Objectives: To train enlisted personnel in the special mission of missile technology.

Instruction: Lectures and practical exercises in the equipment and operation of the Hawk guided missile system. Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics and radio, 2 in communications and operation, and 1 in electronics analysis and operation, and 1 in fundamentals for application to telephone or telegraphy.

MC-1715-0070
RADIO TELEGRAPH OPERATOR

Course Number: None.
Location: Basic Electronics School, San Diego, CA.
Length: 18 weeks (630 hours).
Exhibit Dates: 7/56-12/72.

Objectives: To train personnel in radiotelegraph operators.

Instruction: Lectures and field exercises in the operation and maintenance of radio communications equipment. Topics include receiving, sending, and troubleshooting radio communications equipment, radio fundamentals, and map reading.

Credit Recommendation: In the vocational certificate category, 3 semester hours in typing, 2 in electronics on the basis of institutional evaluation (3/74); 3 in the lower-division baccalaureate/associate degree category, 1 semester hour in typing (3/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).

MC-1715-0071
CH-46A AN/ALQ-52(V) NAVIGATIONAL TACAN MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Jacksonville, NC.
Length: 3 weeks (120 hours).
Exhibit Dates: 11/68.

Objectives: To train enlisted personnel to maintain, modify, service, and operate a specific navigational system.

Instruction: Lectures and practical exercises in the operation and maintenance of a TACAN navigational system. Course includes primary power distribution, block diagram analysis, channel servo error operation, T/R RF theory of operation, video decoder, circuit analysis and theory, and troubleshooting procedures. Course is primarily directed to a specific navigational system and has limited general application.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical maintenance laboratory (6/74).
MC-1715-0073
TELEPHONE SWITCHBOARD REPAIR
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 4 weeks (1540 hours).
Exhibit Dates: 12/71-Present.
Objectives: To train enlisted personnel to install, operate, test, and maintain telephone switching equipment.
Instruction: Offers basic instruction in telephone operating theory, troubleshooting, and maintenance.
Credit Recommendation: In the vocational certificate category, 2 semester hours in telecommunications (67/4).

MC-1715-0072
REMOTE CONTROL SYSTEM REPAIR
Course Number: None.
Location: Ordinance School, Quantico, VA.
Length: 12 weeks (360 hours).
Exhibit Dates: 10/56-12/68.
Objectives: To train enlisted personnel to install, operate, test, and maintain remote control systems.
Instruction: Offers basic instruction in the operation of remote control systems and equipment.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics or digital communications (67/4).
MC-1715-0081
MOBILE DATA COMMUNICATIONS TERMINAL TECHNICIAN
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 11-14 weeks (418-532 hours).
Exhibit Dates: 7/75-Present.
Objectives: To train enlisted personnel in the operation and maintenance of specific military communication equipment.
Instruction: All-in-depth instruction on AN/FTC-5 mobile data communication terminals, with emphasis on performance testing and troubleshooting of the complete system.
Credit Recommendation: In the vocational certificate category, 72 semester hours in electronic/mechanical technology (3/76).

MC-1715-0082
TACTICAL AIR OPERATIONS CENTRAL TECHNICIAN (TAOC (AN/TYQ-2) TECHNICIAN)
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 11-14 weeks (418-532 hours).
Exhibit Dates: 7/75-Present.
Objectives: To train enlisted personnel in the installation, operation, and maintenance of specific military communication equipment.
Instruction: Provides instruction in the operation and maintenance of equipment and procedures associated with voice and data link communications.
Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics technology (2/76).

MC-1715-0085
MOBILE DIAL CENTRAL TECHNICIAN
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 5 weeks (180 hours).
Exhibit Dates: 7/75-Present.
Objectives: To train enlisted personnel in the repair and maintenance of telephone PBX equipment.
Instruction: Lectures and practical exercises covering the installation, operation, testing, fault identification, adjustment, and repair of PBX equipment.
Credit Recommendation: In the vocational certificate category, 3 semester hours in telephone technology (2/76).

MC-1715-0087
HIGH FREQUENCY COMMUNICATION CENTRAL OPERATOR
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 4 weeks (146 hours).
Exhibit Dates: 7/75-Present.
Objectives: To qualify enlisted personnel in the operation of specific military electronic equipment.
Instruction: Provides instruction in the operation, installation, and administration of communication equipment (AN/TSC-23).
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic technology (2/76).

MC-1715-0084
RD-35 MAGNETIC TAPE SUBSYSTEM
ACCELERATED
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 4 weeks (133 hours).

Exhibit Dates: 7/75-Present.
Objectives: To train enlisted personnel in the operation and maintenance of specific military communication equipment.
Instruction: Lectures and practical exercises in the construction, installation, and operation of third generation digital tape processing equipment; corrective and preventive maintenance procedures; logic diagrams; and microprogram listings.
Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in electronics engineering technology (2/76).

MC-1715-0002
RADIO CHIEF
Course Number: None.
Location: Communication-Electronics School, San Diego, CA.
Length: Version 1: 12 weeks (451 hours).
Version 2: 17 weeks (540 hours).
Version 3: 20-22 weeks (700-770 hours).
Objectives: To train enlisted personnel as radio chiefs.
Instruction: All Versions: Lectures and practical exercises in the duties of radio chiefs, including map reading, radio procedures, communications equipment, electronic fundamentals, supply, and maintenance.
Credit Recommendation: In the vocational certificate category, 4 semester hours in communications (electronics) (2/76); in the upper-division baccalaureate/associate degree category, 3 semester hours in management, 3 in radio communications (electronics) (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio communications (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio communications (7/74); in the upper-division baccalaureate category, credit in management and radio communications (electronics) on the basis of institutional evaluation (2/74).

MC-1717-0003
AMMUNITION OFFICER
Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 8 weeks (253-300 hours).
Exhibit Dates: 7/75-Present.
Objectives: To train junior officers to perform the duties of a specialist in the supply, storage, and transportation of all types of ammunition other than air-droppable types.
Instruction: Lectures and practical exercises in the construction, installation, and operation of specific types of ammunition; principles of supply, renovation, storage, transportation and destruction of small arms and artillery ammunition, hand grenades, mortars, land mines, and chemical and nuclear munitions.
MC-1721-0003

METALSMITH FOREMAN

Course Number: None.
Location: Engineer School Battalion, Cpl. Lejeune, NC.
Length: 19 weeks (538 hours).
Exhibit Dates: 10/56-12/68.
Objectives: To train experienced machinists with advanced training in welding, blacksmithing, sheet metalworking, and metal shop supervision.

Instruction: Lectures and practical exercises in advanced welding, blacksmithing, sheet metal working and supervision of metalworking activities, including mathematics, engineering, drafting, shop sketching and pattern layout, oxyacetylene and electric arc welding, and sheet metal work; safety regulations and fire drill.

Credit Recommendation: In the vocational certificate category. 6 semester hours in metalworking, metalworking, sheet metalwork welding, or metals processing (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in metalworking, metalworking, welding, or metals processing (5/74); in the upper-division baccalaureate category, credit in metalworking and welding on the basis of institutional examination (12/68).

MC-1723-0004

WEAPONS REPAIR SHOP MACHINIST

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 14 weeks (420 hours).
Exhibit Dates: 6/54-12/72.
Objectives: To train shop machinists in advanced machine shop techniques, and to qualify them for higher supervisory, mechanical, or instructional assignments.

Instruction: Lectures and practical exercises in advanced machine shop techniques, including shop instruments and practices, shop mathematics, blueprint reading, machine tools, machine shop practice, heat treatment of metals, and welding.

Credit Recommendation: In the vocational certificate category. 6 semester hours in machine tools or machine technology (5/74); in the lower-division baccalaureate/associate degree category. 2 semester hours in machine tools or machine technology (5/74).

MC-1723-0005

BASIC METALWORKER (BASIC METAL WORKER)

Course Number: None.
Location: Engineer School, Cpl. Lejeune, NC.
Length: Version 1: 6 weeks (208 hours).
Version 2: 5 weeks (200 hours).
Exhibit Dates: Version 1: 1/73-Present.
Objectives: To train enlisted personnel in basic welding and sheet metalworking tasks of the fleet marine force.

Instruction: Lectures and practical exercises in basic metalworking, including welding equipment and tools; fundamentals of metalworking; theory and technique of oxyacetylene, electric arc and inert gas welding; basic sheet metalworking; safety precautions; hand tools and machinery;
MC-1723-0006

REPAIR SHOP MACHINIST

Course Number: None.
Location: Ordnance School, Quantico, VA.
Length: 12-14 weeks (480-520 hours).
Exhibit Dates: 7/57-12/72.

Objectives: To train enlisted personnel as repair shop machinists.

Instruction: Lectures and practical exercises in applied mathematics, drafting interpretation and use of technical manuals, simple measuring instruments theory and interpretation and use of technical manuals; eases in applied mathematics; drawing introduction to metal fabrication; shop sketching; electric arc, and inert-gas welding equipment; heat treatment of metals; oxyacetylene, shaper, punching, drilling and riveting; sheet metal fabrication or metals processing (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in welding metalwork or metal processing (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in welding, metalwork or metal processing (5/74); in the upper-division baccalaureate category, 1 semester hour in welding, metalwork or metal processing (5/74).

MC-1728-0003

ADVANCED LEGAL SERVICES

Course Number: None.
Location: Schools Battalion, Marine Corps Base, Cpl. Pendleton, CA; Schools Battalion, Marine Corps Base, Cpl. Lejeune, NC.
Length: 2 weeks (70 hours).
Exhibit Dates: 5/74-Present.

Objectives: To provide senior enlisted personnel with an overview of the administration of legal assistant programs.

Instruction: Lectures and practical exercises in legal administration of investigations, appellee petitions, actions and reviews, administrative discharges, reporter procedures, and legal library techniques.

Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in paralegal training (11/75).

MC-1728-0004

LEGAL SERVICES MAN/REPORTER, PHASE I AND PHASE II

(BASIC LEGAL ADMINISTRATION) (LEGAL SERVICES MAN)

Course Number: None.
Location: Schools Battalion, Cpl. Pendleton, CA.
Length: 5 weeks (220 hours).
Exhibit Dates: 6/74-Present.

Objectives: To provide enlisted personnel with an introduction to court martial investigation, processing, and transcription of proceedings.

Instruction: Phase I consists of lectures and practical exercises in administrative duties, including legal correspondence; utilization of appropriate reference materials, maintenance of files and directives, employing proper grammar, spelling, punctuation, vocabulary, and sentence structure; and typing. Phase II includes appeals from nonjudicial punishment; preparation of charges and specifications; charge, sheets; convening orders; convening and supervisory authority actions; court martial orders; courts of inquiry; administrative discharges; legal assistance; overview of civil processes; pugitive articles; and forms usage and preparation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in paralegal elective (11/75).

MC-1729-0001

LEGAL SERVICES MAN/REPORTER, PHASE III (LEGAL SERVICES REPORTER SPCM (CLOSED MICROPHONE))

Course Number: None.
Location: Supply School, Cpl. Lejeune, NC.
Length: 4 weeks (133 hours).
Exhibit Dates: 6/74-Present.

Objectives: To provide enlisted personnel with introductory concepts in transcription of court martial proceedings.

Instruction: Phase III consists of lectures and practical exercises in the proper use of legal-service-reporting, procedures and processes, including proper use of recording and transcribing equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in secretarial program elective (11/75).

MC-1729-0002

ADVANCED STEWARDS

Course Number: None.
Location: Supply Schools, Cpl. Lejeune, NC.
Length: 12 weeks (378 hours).
Exhibit Dates: 1/59-12/73.

Objectives: To train stewards in advanced technical and management skills, and to provide them with refresher training in cooking and baking.

Instruction: Sound, basic instruction in all phases of food preparation and baking, with some emphasis on menu planning and meat processing, good section on supervision.

Credit Recommendation: In the vocational certificate category, 3 semester hours in baking (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in baking (12/73).

MC-1729-0003

BASIC BAKER

(BASIC SPECIALIST TRAINING BAKER)

Course Number: None.
Location: Supply Service School, Cpl. Lejeune, NC; Supply School, Cpl. Lejeune, NC.

Objectives: To train personnel in the principles and techniques of baking with large-sized/field equipment.

Instruction: The introduction and development of basic motor skills as related to baking. Management of materials only as related to task completion and not to the management of people. Training is done in laboratory as well as stationary or mobile operational conditions under constant supervision with frequent adjusting of performance. Basic introduction to baking techniques utilizing lecture, demonstration, and operational settings. Specific instruction in food sanitation, bakery principles and techniques as applied to the quantity production of bread, sweet dough, cakes, pies, and cookies, care and operation of equipment and operational procedures specific to military conditions.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic bakery preparation (4/76). Version 2: In the vocational certificate category, 3 semester hours in baking (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in baking (12/73); in the upper-division baccalaureate category, 3 semester hours in baking (12/73).

MC-1729-0004

INTERROGATION OF PRISONERS OF WAR

Course Number: None.
Location: Training School, Cpl. Lejeune, NC.
Length: 3-4 weeks (107 hours).
Exhibit Dates: 4/63-12/68.

Objectives: To train selected personnel in interrogation methods.

Instruction: Combat intelligence orientation; principles of interrogation; documents and reports; foreign language interrogations.

Credit Recommendation: Insufficient data for evaluation (11/73).

MC-1729-0005

LEGAL SERVICES MAN/REPORTER, PHASE III

Course Number: None.
Location: Marine Barracks, Cpl. Pendleton, CA.
Length: 4 weeks (133 hours).
Exhibit Dates: 6/74-Present.

Objectives: To train selected personnel as an elective in paralegal training (11/75).

Instruction: Lectures and practical exercises in legal administration of investigations, appellee petitions, actions and reviews, administrative discharges, reporter procedures, and legal library techniques.

Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in paralegal training (11/75).

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Marine Corps

1-55

Objectives: To provide enlisted personnel with introductory concepts in transcription of court martial proceedings.

Instruction: Phase III consists of lectures and practical exercises in the proper use of legal-service-reporting, procedures and processes, including proper use of recording and transcribing equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in secretarial program elective (11/75).
semiconductor hours in hotel, restaurant, and institutional management (12/73); in the upper-division baccalaureate category, 3 semester hours in institutional management (12/68).

MC-1729-0003

ADVANCED COOK

Course Number: None.
Location: Supply Schools, Cp. Lejeune, NC.
Length: 14 weeks (434 hours).
Exhibit Dates: 1/59-12/68.
Objectives: To provide cooks with the advanced technical and supervisory skills required to perform duties as chief cooks.
Instruction: Comparable to a volume food service course at the college level, with equal emphasis on food production and management of a food service operation.

Credit Recommendation: In the vocational certificate category, 4 semester hours in hotel, restaurant, and institutional management (12/73); in the lower-division baccalaureate/associate degree category, 4 semester hours in hotel, restaurant, and institutional management (12/73); in the upper-division baccalaureate category, 4 semester hours in hotel, restaurant, and institutional management (12/73).

MC-1729-0004

FOOD SERVICE STAFF NCO LEADERSHIP

Course Number: None.
Location: Supply Support Schools, Cp. Lejeune, NC.
Length: 8 weeks (256 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train advanced food service personnel in the principles and techniques of military food service installation management.
Instruction: Financial and accounting procedures, purchasing, storage, issue of food, food production and service management techniques, leadership skills in personnel management and training. Cost accounting, controls, accountability for expenditures and equipment, care and maintenance of equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in operational management (4/76).

MC-1729-0005

FOOD SERVICE NCO LEADERSHIP

Course Number: None.
Location: Supply Support Schools, Cp. Lejeune, NC.
Length: 11 weeks (372 hours).
Exhibit Dates: 7/72-Present.
Objectives: To train food service personnel in the leadership behavior essential to effective management and training techniques for a quantity food service operation.
Instruction: Leadership training for chief cooks, mess personnel, bakers, and salad preparers at the mid-management level to include communication, problem-solving and training skills and supervisory techniques. Also includes laboratory and operational exercises under supervision in the application of techniques taught.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food production management (4/76).

MC-1729-0006

Bakery NCO LEADERSHIP

Course Number: None.
Location: Service Support School, Cp. Lejeune, NC.
Length: 10 weeks (334 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train food service personnel in leadership behavior essential to effective management and training techniques for a large baking operation.
Instruction: Leadership training for bakery personnel at mid-management levels to include communication problem solving, and training skills and supervisory techniques. Also includes laboratory and operational exercises under supervision in the application of techniques taught using both modern stationary and mobile equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in quantity food production management (4/76).

MC-1729-0007

ADVANCED SPECIAL MESS TRAINING

Course Number: None.
Location: Service Support School, Cp. Lejeune, NC.
Length: 8 weeks (263-271 hours).
Exhibit Dates: 8/67-12/68.
Objectives: To train personnel to plan, prepare, and serve gourmet meals.
Instruction: Menu planning; preparation and service of gourmet meals; seating arrangements and military protocol; table setting; and service of gourmet meals; seating arrangements and military protocol; table setting; and service of gourmet meals.

Credit Recommendation: In the vocational certificate category, 2 semester hours in gourmet cookery (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in gourmet cookery (12/73); in the upper-division baccalaureate category, 2 semester hours in gourmet cookery (12/73).

MC-1729-0008

FOOD SERVICE MANAGEMENT

Course Number: None.
Location: Supply Schools, Cp. Lejeune, NC.
Length: 7 weeks (245 hours).
Exhibit Dates: 7/66-12/68.
Objectives: To train personnel in the management, organization, and administration of subsistence and food service facilities.
Instruction: Food service and subsistence management; accounting; supervision of meat processing facilities; nutrition and menu planning; field mess operations; disaster feeding.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in food service management (12/73); in the upper-division baccalaureate category, 4 semester hours in food service management (12/68).

MC-1729-0009

BASIC FOOD SERVICE

Course Number: None.
Location: Service Support School, Cp. Lejeune, NC.
Length: 9-11 weeks (305-365 hours).
Exhibit Dates: 5/66-Present.
Objectives: Using realistic environmental and definitive performance objectives based on task analysis, to teach the basic cook the fundamental technical behavior essential to his performance as a cook within a garrison or field messing facility.
Instruction: The introduction and development of basic motor skills as related to food preparation. Management of equipment, primarily as related to task completion and not to the management of people. Basic introduction to preparation techniques utilizing lecture, demonstration, laboratory and operational settings under constant supervision with frequent critique of performance. Specific instruction in operational mathematics, breads, cookies, cakes, pies, egg protein cooking, pasta preparation, salad dressings, meat, fish, and poultry preparation, soups, sauces and gravies, vegetables, appetizers, desserts, dining room preparation (cafeteria) and operational procedures specific to military conditions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic food preparation (4/76).

MC-1729-0010

ADVANCED FOOD SERVICE

Course Number: None.
Location: Service Support School, Cp. Lejeune, NC.
Length: 8 weeks (280 hours).
Exhibit Dates: 7/66-12/68.
Objectives: To train personnel in mess administration and management principles, and to provide them with a working knowledge of the latest techniques of food preparation and service.
Instruction: Operation of equipment; menu planning; formula conversion; portion control; cost accounting; sanitation; emphasis on meat processing, administration and management of both mess and field operations, and cooking techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in institutional (culinary) management (12/73); in the upper-division baccalaureate category, 4 semester hours in institutional (culinary) management (12/68).

MC-1729-0011

Bakery Management

Course Number: None.
Location: Supply Schools, Cp. Lejeune, NC.
Length: 4 weeks (140 hours).
Exhibit Dates: 1/66-12/68.
Objectives: To train commissioned officers to manage post or field bakeries.
Instruction: The course develops a knowledge of management skills with direct application to bakery operations. Included in the course are sanitation, preparation, cost accounting, and techniques used to judge the quality of food production.
Credit Recommendation: In the vocational certificate category, 2 semester hours in bakery management (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in bakery management (12/73); in the upper-division baccalaureate category, 2 semester hours in bakery management (12/68).

MC-1729-0012

ADVANCED BAKER

Course Number: None.
Location: Supply School, Cpl. Lejeune, NC.
Length: 8 weeks (278 hours).
Exhibit Dates: 7/66-12/68.
Objectives: To train sergeants to manage post and field bakeries.

Instruction: The course develops a knowledge of management skills with direct application to bakery operations. Included are sanitation, food preparation, cost accounting, and subjects used to enhance the ability to judge the quality of food production.

Credit Recommendation: In the vocational certificate category, 2 semester hours in bakery organization and management (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in bakery management (12/73); in the upper-division baccalaureate category, 2 semester hours in bakery organization and management (12/73).

MC-1729-0013

FOOD SERVICE

Course Number: None.
Location: Supply School, Cpl. Lejeune, NC.
Length: 12 weeks (415 hours).
Exhibit Dates: 3/64-12/68.
Objectives: To provide advanced, formal training in food service operations to personnel with basic on-the-job experience in food services.

Instruction: Fundamentals of mess administration and operation; cookery; meat cutting; baking; nutrition and menu planning; military leadership emphasizing supervisory abilities.

Credit Recommendation: In the vocational certificate category, 2 semester hours in bakery organization and management (12/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in bakery organization and management (12/73); in the upper-division baccalaureate category, 2 semester hours in bakery organization and management (12/73).

MC-1729-0014

STEWARD

Course Number: None.
Location: Supply School, Cpl. Lejeune, NC.
Length: 14-16 weeks (488-496 hours).
Exhibit Dates: 1/59-12/68.
Objectives: To provide basic instruction in food services, with emphasis on skills in preparing and serving food in garrison and mess.

Instruction: Basic food preparation and service; practical skill development in mess operations and dining room service for formal and informal meals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in institutional management (12/73); in the upper-division baccalaureate category, 3 semester hours in institutional management (12/73).

MC-1729-0015

FOOD SERVICE OFFICER

Course Number: None.
Location: Supply School, Cpl. Lejeune, NC.
Length: 7 weeks (192 hours).
Exhibit Dates: 3/67-12/68.
Objectives: To train food service officers in subsistence management.

Instruction: Lectures and practical exercises in the duties of food service officers and in subsistence management, including organization and administration of individual and consolidated mess systems; management of food, with emphasis on meat cutting, baking, food preparation, and serving; field mess operations, including rationing; and mobilization meals, including flight, troop train, and disaster feeding.

Credit Recommendation: In the vocational certificate category, 3 semester hours in food preparation; in food service management or human relationships, 3 in food and beverage cost control (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in food preparation, 3 in food service management or human relationships, 3 in food and beverage cost control (7/74); in the upper-division baccalaureate category, 3 semester hours in food service management (12/68).

MC-1729-0016

SPECIAL MESS TRAINING LEADERSHIP

Course Number: None.
Location: Service Support School, Cpl. Lejeune, NC.
Length: 10 weeks (344 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train cooks as senior cooks.

Instruction: Lectures and practical exercises in the duties of senior cook specialists, including management and leadership, menu planning, preparation of meals, and operation of field and post mess facilities and functions.

Credit Recommendation: In the vocational certificate category, 6 semester hours in food preparation (or 3 in food preparation and 3 in baking or 3 in catering); 3 in food management, 3 in personnel management, 3 in food and beverage purchasing (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in food preparation (or 3 in food preparation and 3 in baking or 3 in catering); 3 in food management, 3 in personnel management, 3 in food and beverage purchasing (7/74); in the upper-division baccalaureate category, 6 semester hours in food preparation, 3 in food management or personnel management (7/74).

MC-1729-0017

FROZEN FOOD SERVICE

Course Number: None.
Location: Service Support School, Cpl. Lejeune, NC.
Length: 5 weeks (196-213 hours).
Exhibit Dates: 12/65-12/72.
Objectives: To prepare food for special uses; packaging; ice making; storage; freezing; and handling.

Instruction: Lectures and practical exercises in the preparation and service of frozen food and beverages.

Credit Recommendation: In the vocational certificate category, 3 semester hours in frozen food service or baking and 3 in food preparation; in the lower-division baccalaureate/associate degree category, 3 semester hours in frozen food service or baking and 3 in food preparation; in the upper-division baccalaureate category, 3 semester hours in frozen food preparation, 3 in food management (7/74).

MC-1729-0018

SPECIAL MESS TRAINING

Course Number: None.
Location: Service Support School, Cpl. Lejeune, NC.
Length: 8-10 weeks (280-318 hours).
Exhibit Dates: 7/66-6/73.
Objectives: To provide advanced food service personnel with supervised operational training designed to perfect their skills and techniques as mid-level managers.

Instruction: Lectures and practical exercises in special mess training. Course includes dining room procedure, preparation of meals, and general officers' field mess training.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in food service management or to fulfill work-study requirement (4/76).

MC-1729-0019

FROZEN FOOD SERVICE

Course Number: None.
Location: Service Support School, Cpl. Lejeune, NC.
Length: 8-10 weeks.
Exhibit Dates: 8/67-6/73.
Objectives: To provide advanced food service personnel with supervised operational training designed to perfect their techniques and skills as upper-level managers.

Instruction: Rotation of training through various portions in management under supervision in operational installations. Similar to management training or work-study collegiate courses.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in food service management or to fulfill work-study requirement (4/76).

MC-1730-0001

REFRIGERATION SPECIALIST

Course Number: None.
Location: Engineer School Battalion, Cpl. Lejeune, NC.
Length: 14 weeks (430 hours).
Objectives: To provide training in refrigeration and air conditioning, including the preparation and service of food and the operation of organizational mess facilities, including sanitation and storage; kitchen equipment; stock control; principles of baking; function of ingredients; mixing procedures; preparation of breads, cakes, cookies and pies; relationships of foods; use of seasonings; meat, poultry, seafood, vegetable, soup and salad cookery; and field mess operations and equipment, including maintenance and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in food preparation (or 3 in introduction to food service or baking and 3 in food preparation), 3 in food management (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in food preparation (or 3 in introduction to food service or baking and 3 in food preparation), 3 in food management (7/74); in the upper-division baccalaureate category, 3 semester hours in food preparation, 3 in food management (7/74).
COURSE EXHIBITS

Exhibit Dates: 7/55-12/68.

Objectives: To train enlisted personnel to install, maintain, and make minor repairs of refrigeration and accessory equipment.

Instruction: Lectures and practical exercises in the installation and repair of refrigeration equipment. Course includes the theory of refrigeration and elements of electricity and the application to actual equipment; and the use of filters and regenerating piping.

Credit Recommendation: In the vocational certificate category, 15 semester hours in refrigeration theory—fundamentals of electricity, refrigeration controls repair, and troubleshooting (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in refrigeration theory—fundamentals of electricity, refrigeration controls repair, and troubleshooting (5/74).

MC-2101-0001

1. MOTOR VEHICLE OPERATOR
2. MOTOR VEHICLE OPERATORS

Course Number: None.

Location: Service Support School, Cp. Lejeune, NC.


Objectives: To train basic motor transport men in the operation of tactical motor vehicles and in the duties of military drivers.

Instruction: All Versions: Lectures and practical exercises in the operation of tactical and military vehicles, including driving techniques, operator responsibilities, traffic regulations, vehicle recovery, and special driving conditions, and principles of automotive vehicles. Version 1: Includes psychophysical evaluations and maintenance servicing.

Credit Recommendation: Version 1: In the vocational certificate category, 1 semester hour in automotive mechanics (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in automotive mechanics (4/74). Version 2: In the vocational certificate category, 2 semester hours in driver education programs (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in driver education programs (4/74).

Credit Recommendation: All Versions: Lectures and practical exercises in the operation of tactical and military vehicles, including driving techniques, operator responsibilities, traffic regulations, vehicle recovery, and special driving conditions, and principles of automotive vehicles. Version 1: Includes psychophysical evaluations and maintenance servicing.

Credit Recommendation: In the vocational certificate category, 1 semester hour in automotive mechanics (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in automotive mechanics (4/74). Version 2: In the vocational certificate category, 2 semester hours in driver education programs (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in driver education programs (4/74).

MC-2204-0001

DRILL INSTRUCTOR

Course Number: None.

Location: Recruit Training Regiment, San Diego, CA; Recruit Depot, Parris Island, SC.

Length: 5-9 weeks (195-381 hours).

Exhibit Dates: 1/59-Present.

Objectives: To provide students with theoretical and practical military instruction necessary to prepare them for appointment as commissioned officers.

Instruction: Lectures on leadership; communications, combat intelligence, military operations; drills, inspections, and ceremonies; and physical training and conditioning.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in business organization and management, 2 in leadership or group organization (12/68).

MC-2204-0004

MARINE WARRANT OFFICER, BASIC

Course Number: None.

Location: The Basic School, Quantico, VA.

Length: 10-11 weeks (340-410 hours).

Exhibit Dates: 1/59-Present.

Objectives: To broaden the general military proficiency of newly appointed warrant officers.

Instruction: Lectures and practical exercises in leadership techniques, military training, map reading, communication, infantry tactics and intelligence weapons, military law, and organization and staff functioning.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in advanced military science (12/68).

MC-2204-0005

WOMEN OFFICER TRAINING (JUNIOR)

Course Number: None.

Location: Marine Corps Schools, Quantico, VA.

Length: 5-6 weeks (211-264 hours).

Exhibit Dates: 6/55-12/68.

Objectives: To provide students with a basic theoretical and practical understanding of military service in the Marine Corps.

Instruction: Lectures on leadership; drill, command, inspection, and ceremonies; military operations; military customs, courtesies, traditions, and justice; communications; organization, mission and history of armed service.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in business organization and management, 2 in leadership or group organization (12/68).
MC-2204-0006  
MOUNTAIN LEADERSHIP TRAINING, WINTER  
Course Number: None.  
Location: Cold Weather Training Center, Bridgeport, CA.  
Length: 4 weeks (166 hours).  
Exhibit Dates: 1/59–12/68.  
Objectives: To train enlisted personnel to conduct small-unit operations in mountainous and cold weather environments.  
Instruction: Lectures and practical exercises in leadership, organization, functioning, and maintenance of an artillery battery and its weapons, including laying and referring, reconnaissance, selection and occupation of position, field firing exercises, and fire control equipment.  
Credit Recommendation: No credit because of the military nature of the course (12/68).

MC-2204-0007  
MOUNTAIN LEADERSHIP TRAINING, SUMMER  
Course Number: None.  
Location: Cold Weather Training Center, Bridgeport, CA.  
Length: 4 weeks (173 hours).  
Exhibit Dates: 1/59–12/68.  
Objectives: To train enlisted personnel to conduct small-unit operations in mountainous and cold weather environments.  
Instruction: Lectures and practical exercises in leadership, organization, functioning, and maintenance of an artillery battery and its weapons, including laying and referring, reconnaissance, selection and occupation of position, field firing exercises, and fire control equipment.  
Credit Recommendation: No credit because of the military nature of the course (12/68).

MC-2204-0008  
INFANTRY REPLACEMENT AND INDIVIDUAL COMBAT TRAINING  
Course Number: None.  
Location: Headquarters, Marine Corps Base, Pendleton, CA.  
Length: 6 weeks (169 hours).  
Exhibit Dates: 7/58–12/68.  
Objectives: To provide enlisted personnel with basic infantry training.  
Instruction: Lectures and practical exercises in individual combat training, including field fortifications, communications, amphibious training, weapons, and basic tactics.  
Credit Recommendation: No credit because of the military nature of the course (12/68).

MC-2204-0009  
1. WARRANT OFFICER CANDIDATE SCREENING  
   WARRANT OFFICER CANDIDATE (Warrant Officer Candidate)  
Course Number: None.  
Exhibit: All Version: Officer Candidates School, Quantico, VA. Version 2: Training and Test Regiment, Quantico, VA.  

MC-2204-0010  
FIELD ARTILLERY BATTERYMAN  
Course Number: Not available.  
Location: Artillery School, Pendleton, CA.  
Length: 4 weeks (138 hours).  
Exhibit Dates: 10/73–12/73.  
Objectives: To qualify enlisted personnel to perform as field artillery batterymen.  
Instruction: Lectures and practical exercises on the mission, organization, functioning and maintenance of an artillery battery and its weapons, including laying and referring, reconnaissance, selection and occupation of position, field firing exercises, and fire control equipment.  
Credit Recommendation: No credit because of the military nature of the course (5/74).

MC-2204-0011  
REDEYE GUNNER—PLATOON TRAINING (Advanced Course)  
Course Number: None.  
Location: Air Reserve Missile Training Detachment, Twentynine Palms, CA.  
Length: 3 weeks (132 hours).  
Exhibit Dates: 8/66–6/70.  
Objectives: To train enlisted personnel to perform as gunners on the Redeeye air defense weapon system.  
Instruction: Lectures and practical exercises in the operation and maintenance of the Redeeye missile system, including missile firing, identification of friendly and enemy aircraft, tactical employment of weapons, and air control and tactical doctrine.  
Credit Recommendation: No credit because of the military nature of the course (6/74).

MC-2204-0012  
REDEYE GUNNER—PLATOON TRAINING  
(REDEYE GUNNER/OPERATOR)  
Course Number: None.  
Location: Air Reserve Missile Training Detachment, Twentynine Palms, CA.  
Length: 4–9 weeks (135–321 hours).  
Exhibit Dates: 8/66–Present.  
Objectives: To train enlisted personnel to perform as gunners on the Redeeye air defense weapon system.  
Instruction: Lectures and practical exercises in the operation and maintenance of the Redeeye missile system, including missile firing, identification of friendly and enemy aircraft, tactical employment of weapons, air control and tactical doctrine, map reading, communications, compass operation, tracking and counterinsurgency, and search-and-secure procedures.  
Credit Recommendation: No credit because of the military nature of the course (5/74).

MC-2204-0013  
TAOC WEAPONS CONTROLLER/OPERATOR (WEAPONS CONTROLLER/OPERATOR)  
Course Number: None.  
Location: Communication-Electronics School, San Diego, CA.  
Length: 5–6 weeks (175–210 hours).  
Exhibit Dates: 5/66–12/73.  
Objectives: To train officers and enlisted personnel to operate tactical data systems.  
Instruction: Lectures and practical exercises in tactical data system introduction, universal computing introduction, advanced, simulated air exercises, advanced air control techniques and procedures, central operator hut operation and supervision, AN/TYA-9 target acquisition, and aircraft tracking and identification.  
Credit Recommendation: No credit because of the military nature of the course (12/68).

MC-2204-0014  
SEA DUTY INDOCTRINATION (SEA SCHOOL)  
Course Number: None.  
Length: 3–4 weeks (101–134 hours).  
Exhibit Dates: 7/58–Present.  
Objectives: To train enlisted Marines for duty with a ship's Marine detachment.  
Instruction: Lectures and practical exercises on duties and shipboard life of a ship's Marine detachment, including drills, inspections, ceremonies, administrative, navigation, damage control, and fire fighting, Marine standards, and gunnery training.  
Credit Recommendation: No credit because of the military nature of the course (7/58).

MC-2204-0015  
NONCOMMISSIONED OFFICERS (NCO) LEADERSHIP (SENIOR)  
Course Number: None.  
Location: Recruit Depot, Parris Island, SC.  
Length: 3 weeks (120 hours).  
Exhibit Dates: 1/63–12/68.  
Objectives: To train noncommissioned officers in effective leadership, tactics, and military techniques.  
Instruction: Lectures in drill, command, inspections, ceremonies, weapons, map reading, battle tactics, and techniques of military instruction.  
Credit Recommendation: No credit because of the military nature of the course (5/74).

MC-2204-0016  
NONCOMMISSIONED OFFICER (NCO) LEADERSHIP (JUNIOR)  
Course Number: None.  
Location: Recruit Depot, Parris Island, SC.  
Length: 3 weeks (128 hours).  
Exhibit Dates: 1/63–12/68.  
Objectives: To train noncommissioned officers in effective leadership, tactics, and military techniques.  
Instruction: Lectures in drill, command, inspections, ceremonies, weapons, map reading, battle tactics, and techniques of military instruction.  
Credit Recommendation: No credit because of the military nature of the course (5/74).
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COURSE EXHIBITS

Objectives: To train noncommissioned officers in effective leadership, tactics, and military techniques.

Instruction: Lectures in drill, command, inspections, ceremonies, weapons, map reading, battle tactics, and techniques of military instruction.

Credit Recommendation: No credit because of the military nature of the course (5/74).

MC-2204-0017

FIELD ARTILLERY OPERATIONS MAN

Course Number: None.
Location: Schools Battalion, Cpl. Pendleton, CA.

Length: 9 weeks (323 hours).

Exhibit Dates: 12/72-12/74.

Objectives: To train enlisted personnel to be artillery fire direction personnel and forward observers.

Instruction: Lectures and practical exercises in artillery registration, identification and correction computation, use and maintenance of gun direction computer, and firing procedures.

Credit Recommendation: No credit because of the military nature of the course (5/74).

MC-2204-0018

WOMAN MARINE NONCOMMISSIONED OFFICER (NCO) LEADERSHIP

Course Number: None.
Location: Woman Officer School, Quantico, VA; Woman Marine Training Detachment, Quantico, VA.

Length: 4 weeks (138-150 hours).

Exhibit Dates: 7/54-12/68.

Objectives: To provide women Marines with leadership training.

Instruction: Lectures in leadership training for women Marine noncommissioned officers. Course includes leadership, Marine Corps history, organization and management, military law, and physical training.

Credit Recommendation: In the vocational certificate category, 2 semester hours in leadership or human relations (6/74); in the lower-degree baccalaureate/associate degree category, 2 semester hours in leadership or human relations (6/74).

MC-2204-0019

AIRBORNE RADIO OPERATOR/LOADMASTER

Course Number: None.
Location: 2nd Marine Aircraft Wing, Cherry Point, NC.

Length: 20-22 weeks (686 hours).

Exhibit Dates: 12/72-Present.

Objectives: To train enlisted personnel as airborne radio operators/loadmasters.

Instruction: Lectures and practical exercises in the duties of an airborne radio operator/loadmaster. Topics include international Morse code, general operating procedures, airborne electronics, load weight and balance, voice operations, and ground and flight training.

Credit Recommendation: No credit because of the military nature of the course (6/74).

MC-2204-0020

INFANTRY WEAPONS ARMORER

Course Number: None.
Location: Ordnance School, Quantico, VA.

Length: 8 weeks (264 hours).

Exhibit Dates: 1/72-12/74.

Objectives: To train enlisted personnel to manage and organize armories.

Instruction: Lectures and practical exercises in the management of an infantry weapons armory. Course includes inspections, lubricants, parts, disassembly, assembly, and function of pistols, machine guns, submachine guns, mortars, flamethrowers, launchers, and shotguns.

Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-2204-0021

1. AMPHIBIOUS WARFARE
2. AMPHIBIOUS WARFARE
3. AMPHIBIOUS WARFARE
4. AMPHIBIOUS WARFARE
5. JUNIOR COURSE

(JUNIOR COURSE)

Course Number: None.
Location: Development and Education Command, Quantico, VA; Education Center, Quantico, VA.


Objectives: To train officers in amphibious operations.

Instruction: Lectures and practical exercises in command and staff operations; tactics and techniques of amphibious operations; counterinsurgency; nuclear, biological, and chemical warfare; automatic data processing; effective communications; amphibious organization, weapons, and equipment; and management.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the upper-degree baccalaureate category, 3 semester hours in general business (7/74). Version 3: In the upper-degree baccalaureate category, 3 semester hours in business organization and management, and credit in oral and written communications on the basis of institutional evaluation (12/68). Version 4: In the upper-degree baccalaureate category, 3 semester hours in business organization and management, and credit in oral and written communications on the basis of institutional evaluation (12/68).

MC-2204-0025

AMPHIBIOUS VEHICLE OFFICER ORIENTATION

Course Number: None.
Location: Tracked Vehicle Operations School, Cpl. Pendleton, CA.

Length: 4 weeks (148 hours).

Exhibit Dates: 7/58-12/68.

Objectives: To train officers to supervise amphibious vehicle operations.

Instruction: Lectures and practical exercises in the maintenance of amphibious vehicles; communications; tactics; gunnery operations; and night operations.

Credit Recommendation: No credit because of the military nature of the course (8/74).

MC-2204-0026

TANK/AMPHIBIAN VEHICLE OFFICER (RECRUIT)

Course Number: None.
Location: Schools Battalion, Cpl. Pendleton, CA.

Length: 3 weeks (110 hours).

Credit Recommendation: No credit because of the military nature of the course (7/74).
Institution: Lectures and practical exercises in tactical air operations, air interdiction control, weapons system characteristics, flight rules and regulations, ground controlled intercepts, and related air traffic control procedures.

Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-2204-0031
AIR CONTROL ELECTRONIC OPERATOR
Course Number: None.
Location: Air Command and Control Systems School, Quantico, VA.
Length: 4 weeks (152 hours).
Exhibit Dates: 4/75-Present.

Objectives: To train newly commissioned officers to provide knowledge and training necessary for officers to tactically employ nuclear, biological, and chemical weapons.

Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-2204-0032
ARTILLERY SCOUT OBSERVER
Course Number: None.
Location: Artillery School, Cp. Pendleton, CA.
Length: 5 weeks (194 hours).
Exhibit Dates: 3/73-12/73.

Objectives: To train enlisted personnel as artillery fire controlmen.

Instruction: Lectures and practical exercises in artillery mathematics, gunnery and survey, meteorological message, gun direction computer, and artillery field firing.

Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-2204-0033
FIELD ARTILLERY FIRE CONTROLMAN
Course Number: None.
Location: Artillery School, Cp. Pendleton, CA.
Length: 5 weeks (194 hours).
Exhibit Dates: 3/73-12/73.

Objectives: To train enlisted personnel as field artillery fire controlmen.

Instruction: Lectures and practical exercises in artillery mathematics, gunnery and survey, meteorological message, gun direction computer, and artillery field firing.

Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-2204-0034
AIR DEFENSE CONTROL OFFICER, AUTOMATED SYSTEM (MARINE TACTICAL DATA SYSTEM (MTDS) WEAPONS CONTROLLER)
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 8 weeks (283 hours).
Exhibit Dates: 12/71-Present.

Objectives: To train officers in the Marine Tactical Data System and Tactical Air Operations Central System.

Instruction: Lectures and practical exercises in principles and operation of the Marine Tactical Data System, Tactical Operations Central and radar systems, surveillance operator duties, assistant weapons controller and air traffic controller duties, and missile director and weapons controller duties.

Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-2204-0035
WOMAN OFFICER BASIC
Course Number: None.
Location: Marine Corps School, Quantico, VA.

Objectives: To train newly commissioned women officers in the duties and functions of company and staff officers.

Instruction: Lectures and practical exercises in military law, leadership, management and administration, military operations, officer assignment and classification, techniques of military instruction, logistics, and communication.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, credit in advanced military science and training, and in the upper-division baccalaureate category, 2-semester hours in business organization and management. Oh the basis of institutional evaluation, credit in advanced military science and in instructional methods (7/74).

MC-2204-0036
1. NUCLEAR AND CHEMICAL WEAPONS EMPLOYMENT (WEAPONS EMPLOYMENT)
2. NUCLEAR, BIOLOGICAL, AND CHEMICAL WEAPONS EMPLOYMENT
3. NUCLEAR, BIOLOGICAL, AND CHEMICAL WEAPONS EMPLOYMENT
4. NUCLEAR WEAPONS EMPLOYMENT (ATOMIC WEAPONS EMPLOYMENT)
Course Number: None.
Location: Marine Corps School, Quantico, VA.

Objectives: To provide knowledge and preparation necessary for officers to tactically employ nuclear and chemical weapons.

Instruction: Lectures and practical exercises in military, nuclear, and chemical weapons uses and effects, nuclear damage estimations, target analysis, chemical weapons employment, and tactical application of nuclear and chemical weapons.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/75).
MC-2204-0037
PLATOON LEADERS CLASS (JUNIOR)
Course Number: None.
Location: Officer Candidate School, Quantico, VA; Marine Corps School, Quantico, VA.
Length: 6-7 weeks (210-283 hours).
Exhibit Dates: 6/53-Present.
Objectives: To train officer candidates for service as Marine Corps officers.
Instruction: Lectures and practical experiences in leadership, infantry weapons, small unit tactics, and other general military subjects.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in advanced military science (7/74).

MC-2204-0039
NAVAL GUNFIRE OFFICER
Course Number: None.
Location: Educational Center, Quantico, VA.
Length: 11 weeks (305 hours).
Exhibit Dates: 6/56-12/68.
Objectives: To prepare officers in all phases of naval gunfire support, shore bombardment, and fire control with special emphasis on landing forces.
Instruction: Lectures and practical exercises in the characteristics of naval gunfire, fire support ships, equipment and matériel, gunnery, communications, organization, control and staff functions, operations planning, training, and familiarization with other service organizations.
Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-2204-0040
PLATOON LEADERS CLASS (SENIOR)
Course Number: None.
Location: Officer Candidate School, Quantico, VA; Marine Corps School, Quantico, VA.
Objectives: To prepare selected personnel to become commissioned officers.
Instruction: Lectures and practical exercises in drill, unit formation, command voice, inspections, parades and reviews, physical conditioning, leadership, weapons, code of conduct, small unit tactics, military law, guard duty, map reading, first aid, and indoctrination.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in advanced military science (7/74).

MC-2204-0041
AMPHIBIOUS VEHICLE COMPANY OFFICER
Course Number: None.
Location: Marine Corps Amphibious Vehicle Operations School, C.P., Pendleton, CA.
Length: 10 weeks (393 hours).
Exhibit Dates: 7/55-12/68.
Objectives: To train company grade officers in the tactical employment of amphibious tractor and armored amphibious units in combat.

MC-2204-0042
BASIC COURSE
(SPECIAL BASIC COURSE)
Course Number: None.
Location: Basic School, Quantico, VA.
Objectives: To train newly commissioned officers to assume company duties.
Instruction: Lectures and practical exercises in amphibious operations, communications, field engineering, infantry weapons, leadership, map and aerial photogaphy reading, military law, personnel administration, and infantry tactics.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in advanced military science at institutions which normally grant such credit (934-1054 hours). In the upper-division baccalaureate category, credit in advanced military science at institutions which normally grant such credit (7/74).

MC-2204-0043
SPECIAL INDOCTRINATION
Course Number: None.
Location: Basic School, Quantico, VA.
Length: 6 weeks (219-264 hours).
Exhibit Dates: 7/58-12/68.
Objectives: To provide intensive training in weapons and tactics related to employment of machine guns on the battlefield.
Instruction: Lectures and practical exercises in field artillery procedures, fire direction and navigation, and offensive and defensive tactics.
Credit Recommendation: No credit because of the military nature of the course (6/75).

MC-2204-0044
INFANTRY WEAPONS ARMORERS (ADVANCED)
Course Number: None.
Location: Ordinance School, Quantico, VA.
Length: 6-7 weeks (180-203 hours).
Exhibit Dates: 7/58-12/68.
Objectives: To train newly commissioned officers to make and supervise extensive repairs to infantry weapons.

MC-2204-0045
ARTILLERY OFFICER ORIENTATION
Course Number: None.
Location: Marine Corps School, Quantico, VA.
Length: 4-5 weeks (145-194 hours).
Exhibit Dates: 10/56-12/72.
Objectives: To train personnel in the duties of the artillery unit officer and the operations of a field artillery firing battery.
Instruction: Lectures and practical exercises in the organization of the field artillery unit, communication and equipment, surveying, and field direction procedures, equipment and materials of field artillery battery.
Credit Recommendation: No credit because of the military nature of the course (7/74).

MC-2204-0047
MACHINEGUNNER
Course Number: None.
Location: Infantry Training School, Cp. Pendleton, CA.
Length: 6 weeks (174 hours).
Exhibit Dates: 7/74-Present.
Objectives: To provide intensive training in weapons and combat skills.
Instruction: Lectures and practical exercises in 81mm mortar, 60mm mortar; offensive, defensive, and patrolling operations; land navigation; and offensive and defensive tactics.
Credit Recommendation: No credit because of the military nature of the course (6/75).

MC-2204-0048
MACHINEGUNNER
Course Number: None.
Location: Infantry Training School, C.P., Pendleton, CA.
Length: 5 weeks (167 hours).
Exhibit Dates: 7/74-Present.
Objectives: To provide intensive training in infantry machine gunnery.
Instruction: Lectures and practical exercises in general military subjects with emphasis on specialized training in weapons and tactics related to employment of machine guns on the battlefield.
Credit Recommendation: No credit because of the military nature of the course (6/75).

MC-2204-0049
ANTI-TANK ASSAULTMAN
Course Number: None.
Location: Infantry Training School, C.P., Pendleton, CA.
Length: 5 weeks (157 hours).
Exhibit Dates: 7/74-Present.
Objectives: To provide intensive training in infantry antitank assault weapons.
MC-2204-0050
OFFICER CANDIDATE SCHOOL
(PLATOON LEADERS (COMBINED JUNIOR/SNJOR))
(OFFICER CANDIDATE)
Course Number: None.
Location: Marine Corps School, Quantico, VA.
Length: 10-12 weeks (391-474 hours).
Exhibit Dates: 7/57-Present.
Objectives: To motivate and train selected personnel to become commissioned officers.
Instruction: Lectures and practical exercises in general military subjects with emphasis on specialized training in advanced weapons and tactics related to infantry anti-tank weapons employment on the battlefield.
Credit Recommendation: No credit because of the military nature of the course.

MC-2204-0051
RIFLEMAN
Course Number: None.
Location: Infantry Training School, Camp Pendleton, CA.
Length: 5 weeks (163 hours).
Exhibit Dates: 7/74-Present.
Objectives: To provide infantrymen with training in weapons and combat skills.
Instruction: Lectures and practical exercises in land navigation; supporting arms; detection of mines and booby traps; helicopter operations; tracked vehicles, technique of fire and combat firing positions; scouting and patrolling; and offensive and defensive tactics.
Credit Recommendation: No credit because of the military nature of the course.

MC-2204-0052
INFANTRY WEAPONS ARMORER (BASIC)
Course Number: None.
Location: Ordnance School, Quantico, VA.
Objectives: To train personnel to repair infantry weapons.
Instruction: Lectures and practical exercises in troubleshooting, disassembly, inspection, repair, reassembly and testing of rifles, pistols, grenade launchers, rocket launchers, and mortars; care and use of hand tools; and repair by component replacement.
Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in small arms repair (armorerc (5/75). Version 2: In the vocational certificate category, 1 semester hour, in small arms repair (armorerc (5/75).

MC-2204-0053
AIR CONTROL ELECTRONICS OPERATOR
Course Number: None.
Location: Communication-Electronics School, Twentynine Palms, CA.
Length: 4 weeks (132 hours).
Exhibit Dates: 7/74-Present.
Objectives: To train enlisted personnel as operators in the Tactical Air Operations Center (TAOC), AN/FTY-2.
Instruction: Lectures, demonstrations, and practical exercises in the operation of an air defense system, the Tactical Air Operations Center, long-range surveillance radars, and tactical aircraft; and operation of the Operator Group AN/FTY-9, with special emphasis on the Universal Console.
Credit Recommendation: No credit because of the military nature of the course.

MC-2204-0054
NAVY

NV-0101-0001
DISEASE VECTOR AND PEST CONTROL TECHNOLOGY
Course Number: B-00-13; B-00-14; B-000-12; B-000-13.
Location: Disease Vector Control Center, Alameda, CA; Disease Vector Control Center, Jacksonville, FL.
Length: 4 weeks (146 hours).
Exhibit Dates: 7/63-5/69.
Objectives: To provide enlisted personnel with a working knowledge of disease vector and pest control.
Instruction: Lectures and practical experience in the basic principles of disease vector and pest control, including basic entomology, operations of various types of insecticide dispersal equipment, control of arthropods and pest vertebrates, effects of weather on pest control, effects of insecticides, and sanitation.
Credit Recommendation: In the vocational certificate category, 2 semester hours in community sanitation and entomology (2/74); in the lower-division baccalaureate category, 2 semester hours in community sanitation and entomology (2/74); in the upper-division baccalaureate category, 2 semester hours in community sanitation (12/68).

NV-0202-0001
MEDICAL ILLUSTRATION TECHNICIAN, CLASS C
(MEDICAL ILLUSTRATION TECHNIC)
Course Number: B-414-0010; B-414-10.
Location: National Naval Medical Center, Bethesda, MD.
Length: 26 weeks (888 hours).
Exhibit Dates: 1/74-7/77.
Objectives: To train personnel as medical illustrators.
Instruction: Lectures and practical exercises in medical illustration, including graphic arts, microscopic drawing, advanced anatomy, and surgical drawing.
Credit Recommendation: In the vocational certificate category, 4 semester hours in anatomy, and credit in medical illustration techniques on the basis of institutional examination (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in anatomy, and credit in medical illustration techniques on the basis of institutional examination (12/68).

NV-0326-0002
NAVY ADVANCED MANAGEMENT
Course Number: P-00-3307.
Location: Defense Resources Management Center, McLean, VA; Navy Management Systems Center, Norfolk, VA.
Length: 2 weeks (68 hours).
Exhibit Dates: 6/73-Present.
Objectives: To acquaint officers with concepts and techniques of quantitative methods of management.
Instruction: Lectures, discussions, and simulations to cover functions of management; quantitative methods; risk and uncertainty; economic principles; model building; production analysis; sampling; planning, programming, and budgeting, and management information systems.
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in quantitative methods (6/75).

NV-0419-0001
OFFICERS EMBARKATION (BASIC)
Course Number: None.
Location: Naval Amphibious Base, Norfolk, VA.
Length: 4 weeks (139 hours).
Exhibit Dates: 9/66-Present.
Objectives: To train military personnel to prepare and execute plans for amphibious operations.
Instruction: Lectures in the basic techniques of loading amphibious vehicles, preparation of loading plans, characteristics of amphibious ships, mechanized embarkation, data systems, automated amphibious support, and logistical considerations.
Credit Recommendation: In the vocational certificate category, 3 semester hours in water transportation (1/74).

NV-0419-0002
STAFF EMBARKATION
Course Number: None.
Location: Naval Amphibious Base, Norfolk, VA.
Length: 3 weeks (102 hours).
Exhibit Dates: 9/66-Present.
COURSE EXHIBITS

Objectives: To train military personnel to prepare and execute plans for amphibious operations.

Instruction: Lectures in the basic techniques of loading amphibious vehicles, preparation of loading plans, characteristics of amphibious ships, mechanized embarkation, data systems, automated amphibious support, and logistical considerations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in water transportation (1/74).

NV-0419-0003
ENLISTED BASIC AMPHIBIOUS EMBARKATION (ENLISTED EMBARKATION (BASE))
Course Number: G-551-4409.
Location: Naval Amphibious Base, Little Creek, Norfolk, VA.
Length: 4 weeks (139-140 hours).
Exhibit Dates: 9/66-Present.
Objectives: To train military personnel to prepare and execute plans for amphibious operations.

Instruction: Lectures in the basic techniques of loading amphibious vehicles, preparation of loading plans, characteristics of amphibious ships, mechanized embarkation, data systems, automated amphibious support, and logistical considerations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in water transportation (1/74).

NV-0419-0004
EMBARKATION FOR AMPHIBIOUS OPERATIONS
Course Number: G-88-4410; H-88-3551.
Location: Naval Amphibious Base, Norfolk, VA; Naval Amphibious Base, San Diego, CA.
Length: 4 weeks (144 hours).
Exhibit Dates: 11/69-Present.
Objectives: To train U.S. and allied military officers to operate as embarkation-officers and combat cargo officers.

Instruction: Lectures in the theory of combat loading for amphibious operations, characteristics of amphibious vessels and vehicles, logistical considerations, and use of mechanized embarkation data system.

Credit Recommendation: In the vocational certificate category, 3 semester hours in water transportation (1/74).

NV-0419-0005
AMPHIBIOUS TRANSPORT/CARGO SHIP EMBARKATION
Course Number: G-88-4411; G-551-4418.
Location: Atlantic Naval Amphibious Base, Little Creek, VA.
Length: 2 weeks (65 hours).
Exhibit Dates: 9/72-Present.
Objectives: To train personnel in the preparation and execution of plans for the combat loading of the LPA or LKA for amphibious operations.

Instruction: Lectures and practical exercises on embarkation considerations; ship loading techniques; combat load-planning; preparation of loading plans; logistic considerations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in transportation or amphibious cargo handling (2/74).

NV-0419-0006
INTRODUCTION TO TRANSPORTATION MANAGEMENT
Course Number: None.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (65 hours).
Exhibit Dates: 4/71-Present.
Objectives: To provide military and civilian personnel with the basic principles of distribution and traffic management.

Instruction: Lectures in aspects of the American transportation system; the fundamentals of traffic management; military transportation management; development of transportation regulations; classification, rates, and tariffs; carrier facilities, services, and equipment.

Credit Recommendation: In the lower-division baccalaureate category, 4 semester hours in transportation management (1/74).

NV-0419-0007
TRANSPORTATION AND STORAGE OF HAZARDOUS MATERIAL
Course Number: A-8C-0023.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 6/71-Present.
Objectives: To provide military, civilian, and enlisted personnel with the knowledge and skills necessary to administer the storage and transportation of ammunition, explosives, and other hazardous material.

Instruction: Lectures in storage and transportation of hazardous materials, including military and commercial carrier operations, national, state, and local transportation regulations; traffic management and terminal service; airlift and sealift procedures; and organization and operation of a naval installations station.

Credit Recommendation: No credit because of the military nature of the course (2/74).

NV-0419-0008
1. TRANSPORTATION MANAGEMENT
2. FREIGHT TRANSPORTATION AND TRAFFIC MANAGEMENT
Course Number: A-8C-0017.
Location: Naval Supply Center, Oakland, CA.
Length: Version 1: 22 weeks (784 hours); Version 2: 22-38 weeks (733 hours).
Objectives: To train military officers and civilian personnel to operate as transportation managers.

Instruction: Lectures and practical exercises in the fundamentals of transportation management, including warehouse; operations management; marine terminal management; military traffic management; materials handling; hazardous material transportation and storage; preservation and packaging; personal property shipments; shipping and storage; transportation of hazardous materials; classification, rates, and tariffs; rail, air, motor, and pipeline transportation; quantitative aspects of distribution management.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 6 semester hours in transportation management (1/74). Version 2: In the upper-division baccalaureate category, 10 semester hours in transportation management and operation (12/68).

NV-0419-0009
TRANSPORTATION MANAGEMENT ADVANCED
Course Number: A-8C-0012.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 3/71-Present.
Objectives: To provide military and civilian management personnel with advanced instruction in transportation and physical distribution management.

Instruction: An advanced seminar in the concepts and problems of physical distribution management, including the fundamentals of policy and regulation, federal and military transportation procedures before regulatory agencies, the economics of transportation, labor relations, transportation, congestion, materials handling and warehousing, simulation, flowcharting, queuing theory, and transportation inventory modeling.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in transportation management (1/74).

NV-0419-0010
INTERMEDIATE TRANSPORTATION MANAGEMENT
Course Number: None.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 4/71-Present.
Objectives: To train military officers to operate as transportation managers at the intermediate level.

Instruction: Lectures in the legal and economic aspects of highway transportation management; freight classification, rates, and tariffs; handling and shipping of hazardous materials; warehouse operations; carrier modes; and other aspects of transportation management; case study preparation and presentation; current developments in motor transportation.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in transportation management (1/74).

NV-0419-0011
PERSONAL PROPERTY TRAFFIC MANAGEMENT
Course Number: A-8C-0022.
Location: Naval Supply Center; Oakland, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 3/71-Present.
Objectives: To train military, civilian, and enlisted personnel to ship household goods and other personal property.

Instruction: Lectures and practical exercises in personal property traffic management, including station orders, entitlements, shipments, entitlements under permanent and temporary change-of-station orders, personnel, personal property, shipment methods, comprehensive personal property problems, standard military transportation and movement procedures, claims procedures and investigations, and tours.
Traffic manager; principles of shiploading; harbors
Navy carrier selection and routing policy; railroad facilities; Mobile support; packaging, packing, and marking of shipping methods and equipment; preservation, motor carrier duties of marine terminal supervisor; terminal operations, and effective utilization of cargo space allocation, stevedoring and terminal, stevedoring and terminal cost estimating, and regulations.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in water transportation (7/74).

NV-0419-0013
AIR TRAFFIC MANAGEMENT
Course Number: A-5C-0024.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 3/71-Present.
Objectives: To train officers, civilians, and senior enlisted personnel to manage air traffic operations.
Instruction: Lectures and practical exercises in air traffic management. Course includes study of community relations and publicity techniques (including news writing, radio and television production, camera use, film processing and photography).
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in air traffic management (7/74).

NV-0419-0014
INTRODUCTION TO TRAFFIC AND TERMINAL MANAGEMENT
Course Number: None.
Location: Freight Transportation School, Oakland, CA.
Length: 4 weeks (120 hours).
Exhibit Dates: 9/55-12/68.
Objectives: To train personnel in the fundamentals of transportation, traffic, and terminal management.
Instruction: Lectures and practical exercises in the fundamentals of transportation, traffic, and terminal management, including transportation logistics, economics of transportation, bills of lading, commercial and government air shipments, cargo ships, port terminal facilities, ocean shipping, duties of traffic manager, principles of shipping, duties of marine terminal superintendent, motor carrier operations, materials-handling methods and equipment, preservation, packaging, packing, and marking of shipments, terminal facilities, mobile support, Navy carrier selection and routing policy, harbors and ports, U.S. Customs procedures, classification of rail and motor freight, state regulations, freight claims and procedures; rail-road -claim and damage prevention; and shipment of household effects.
Credit Recommendation: In the vocational certificate category, 2 semester hours in traffic management, household and personal property (6/74).

NV-0504-0001
INFORMATION OFFICER
Course Number: None.
Location: Journalists School, Great Lakes, IL.
Length: 4-5 weeks (120-150 hours).
Exhibit Dates: 8/54-12/62.
Objectives: To familiarize officers with the field of public relations so that they may carry out assignments of prime responsibility in the Navy's information program.
Instruction: Public relations and communication, civil and community relations, news release techniques, photo, picture, and radio news releases, case studies and practical problems, and information programs.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in journalism (6/76).

NV-0504-0002
RECRUITERS JOURNALISM, CLASS C-1
Course Number: Not available.
Location: Journalists School, Great Lakes, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 12/58-12/68.
Objectives: To train enlisted personnel to promote the armed services.
Instruction: Lectures and practical exercises in promotion techniques and use of media. Course includes study of community relations and publicity techniques (including news writing, radio and television production, camera use, film processing and photography).
Credit Recommendation: In the vocational certificate category, 2 semester hours in journalism (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in journalism (7/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in journalism (12/68).

NV-0504-0004
JOURNALISTS, CLASS B
Course Number: Not available.
Location: Journalists Class B School, Great Lakes, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 6/61-12/68.
Objectives: To train journalists as public information assistants.
Instruction: Lectures and practical exercises in duties of public information assistants, including basic photography, writing of news and feature stories for print and electronic media, editing, radio and television production, photo story preparation, and public relations (including community relations).
Credit Recommendation: In the vocational certificate category, 2 semester hours in journalism (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in journalism (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in journalism (12/68).

NV-0602-0001
RIVERINE/COASTAL ADVISOR TRAINING
Course Number: H-00-1001; H-000-1004.
Location: Inshore Operations Training Center, Mare Island, CA.
Length: 17 weeks (881-921 hours).
Exhibit Dates: 4/70-Present.
Objectives: To train officers and enlisted personnel to advise in all phases of riverine and coastal warfare units in the Republic of Vietnam.
Instruction: Lectures and practical exercises on overseas internal defense and development, including counterinsurgency, survival, medical indoctrination, weapons, engineering, maintenance, and repair, electronic equipment, communications, riverine/coastal warfare, and advanced tactical training, and Vietnamese language.
Credit Recommendation: In the upper-division baccalaureate category, credit in Vietnamese language on the basis of institutional examination (12/68).

NV-0701-0004
DENTAL TECHNICIAN, MAXILLOFACIAL PROSTHETIC
(DENTAL TECHNICIAN, MAXILLOFACIAL PROSTHETIC, CLASS C)
Course Number: D-33-11-18.
Location: National Naval Medical Center, Bethesda, MD.
Length: 20-24 weeks (725-784 hours).
Exhibit Dates: 6/55-Present.
Objectives: To train dental technicians in the techniques of maxillofacial prostheses.
Instruction: Lectures and laboratories in various maxillofacial prostheses, including ocular, somato, auricular, mammmary, and fixed facial prostheses.
Credit Recommendation: Insufficient data for evaluation (12/74).
### COURSE EXHIBITS

#### NV-0701-0002
**DENTAL OFFICER INSTRUCTION**

<table>
<thead>
<tr>
<th>Course Number: None</th>
<th>Location: Naval Schools Command, Newport, RI</th>
</tr>
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<tbody>
<tr>
<td>Length: 4 weeks (133 hours)</td>
<td>Exhibit Dates: 6/70-Present</td>
</tr>
</tbody>
</table>

**Objectives:** To provide dental officers with orientation training in essential military subjects.

**Instruction:** Lectures and practical exercises in administrative and organizational aspects of dental facilities, dental manifestations, and administrative aspects of dental facilities and officers.

**Credit Recommendation:** No credit because of the military nature of the course (2/74).

#### NV-0701-0003
**DENTAL TECHNICIAN, PROSTHETIC, ADVANCED, CLASS B**

<table>
<thead>
<tr>
<th>Course Number: B-331-17</th>
<th>Location: Naval Medical Center, San Diego, CA, Naval Medical Center, Bethesda, MD</th>
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<tbody>
<tr>
<td>Length: 24 weeks (960 hours)</td>
<td>Exhibit Dates: 6/55-Present</td>
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</tbody>
</table>

**Objectives:** To train military personnel to teach dental criteria.

**Instruction:** Lectures in the fundamentals of teaching dental criteria, including English and speech, personnel management, laboratory and office management, and the administrative aspects of dental facilities and officers.

**Credit Recommendation:** No credit because of the limited technical nature of the course (2/74).

#### NV-0701-0004
**DENTAL TECHNICIAN RESEARCH ASSISTANT, CLASS C**

<table>
<thead>
<tr>
<th>Course Number: B-331-19, B-331-29</th>
<th>Location: Dental School, Bethesda, MD, Naval Research Institute, Great Lakes, IL</th>
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<tr>
<td>Length: 52 weeks (1950 hours)</td>
<td>Exhibit Dates: 1/65-1/67</td>
</tr>
</tbody>
</table>

**Objectives:** To provide instruction in the basic skills and knowledge of dental research procedures.

**Instruction:** Lectures and practical exercises in administration, experimental pathology, nutrition, biochemistry, microbiology, experimental surgery, and experimental animal care.

**Credit Recommendation:** 4 semester hours in dental assisting on the basis of institutional examination (12/68).

#### NV-0701-0005
**DENTAL TECHNICIAN, GENERAL, ADVANCED, CLASS B**

<table>
<thead>
<tr>
<th>Course Number: B-331-16</th>
<th>Location: Naval Dental Center, San Diego, CA, Naval Dental Center, Great Lakes, IL, Naval Dental Center, Bainbridge, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length: 24 weeks (960 hours)</td>
<td>Exhibit Dates: 6/55-Present</td>
</tr>
</tbody>
</table>

**Objectives:** To provide enlisted personnel with a basic foundation of dental work.

**Instruction:** Lectures and practical experience in the basic principles of denture work, including applied anatomy, dental laboratory procedures, mounting and setting of teeth, construction of casts from impressions, construction of base plates, bite rims, and occlusal planes, and processing, finishing, and polishing.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in basic denture work on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic denture work on the basis of institutional examination (2/74); and in the upper-division baccalaureate category, 3 semester hours in basic denture work on the basis of institutional examination (2/74).

#### NV-0701-0006
**DENTAL TECHNICIAN, BASIC, CLASS A**

<table>
<thead>
<tr>
<th>Course Number: Version 1: B-330-10, Version 2: None</th>
<th>Location: Dental Technician's School, San Diego, CA, National Naval Medical Center, Bethesda, MD</th>
</tr>
</thead>
</table>

**Objectives:** To train enlisted personnel to assist dental technologists and to qualify for the dental technician rating.

**Instruction:** Lectures and practical experience in basic sciences, preventive dentistry, dental administration, radiography, and dental assisting.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in dental assisting on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in dental assisting on the basis of institutional examination (2/74); and in the upper-division baccalaureate/associate degree category, 3 semester hours in dental assisting on the basis of institutional examination (2/74).

#### NV-0701-0007
**DENTAL TECHNICIAN, PROSTHETIC, CLASS C**

<table>
<thead>
<tr>
<th>Course Number: B-331-16</th>
<th>Location: Naval Dental Center, San Diego, CA, Naval Dental Center, Great Lakes, IL, Naval Dental Center, Bainbridge, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length: 24 weeks (960 hours)</td>
<td>Exhibit Dates: 6/55-Present</td>
</tr>
</tbody>
</table>

**Objectives:** To provide enlisted personnel with a basic foundation of dental work.

**Instruction:** Lectures and practical experience in the basic principles of denture work, including applied anatomy, dental laboratory procedures, mounting and setting of teeth, construction of casts from impressions, construction of base plates, bite rims, and occlusal planes, and processing, finishing, and polishing.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in basic denture work on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic denture work on the basis of institutional examination (2/74); and in the upper-division baccalaureate category, 3 semester hours in basic denture work on the basis of institutional examination (2/74).

#### NV-0701-0009
**CLASS B GENERAL DENTAL TECHNICIAN**

<table>
<thead>
<tr>
<th>Course Number: None</th>
<th>Location: National Naval Medical Center, Bethesda, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length: 24 weeks (900 hours)</td>
<td>Exhibit Dates: 3/61-10/70</td>
</tr>
</tbody>
</table>

**Objectives:** To train enlisted personnel to perform the duties of a dental assistant, with emphasis on office management procedures.

**Instruction:** Lectures and practical experience in dental office management, including typing, accounting, dental records and reports, clinical supervision, first aid for mass casualties, and administrative procedures.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in dental assisting on the basis of institutional examination (2/74).

#### NV-0702-0001
**TISSUE CULTURE TECHNICIAN, CLASS C**

<table>
<thead>
<tr>
<th>Course Number: B-311-14</th>
<th>Location: National Naval Medical Center, Bethesda, MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length: 16 weeks (640 hours)</td>
<td>Exhibit Dates: 12/63-12/68</td>
</tr>
</tbody>
</table>

**Objectives:** To train enlisted personnel as research assistants in tissue culture biological research.

**Instruction:** Lectures and practical exercises in tissue culture research assisting, including basic biology and chemistry, preparing, maintaining, and transferring cells; nutrient fluids preparation; short- and long-term tissue culture; replica culture technique; photomicroscopy, and laboratory apparatus usage and maintenance.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in histology, 2 in medical laboratory technology, 9 in tissue culture technology, and credit in histologic technology on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in histology, 2 in medical laboratory technology, 9 in tissue culture technology, 2 in medical laboratory technology, and credit in histologic technology on the basis of institutional examination (2/74); and in the upper-division baccalaureate category, 3 semester hours in histology, 2 in medical laboratory technology, 9 in tissue culture technology, and credit in histologic technology on the basis of institutional examination (2/74).
**NV-0702-0002**

**MEDICAL TECHNOLOGY TECHNICIAN, CLASS C**

(MEDICAL TECHNOLOGY)

**Course Number:** B-311-24; B-311-0025

**Location:** Naval Hospital, Great Lakes, IL

**Length:** 50-52 weeks (2392 hours).

**Exhibit Dates:** 3/72-Present.

Objectives: To train medical technicians to perform and supervise advanced laboratory procedures in all phases of blood bank operations.

**Instruction:** Lectures and clinical application of diagnostic microbiology, parasitology, mycology, serology, hematology, molecular biology, quality control, blood banking, pathologic techniques, automated procedures, histochemistry, urinalysis, and instrumentation, including analyzers, flame photometers, osmometers, gas chromatographs, electrophoresis apparatus, and sequential multiple analyzers.

**Credit Recommendation:**

Version 1: In the vocational certificate category, 15 semester hours in microbiology (including bacteriology, parasitology, and mycology), 10 in hematology, 5 in clinical microbiology and venapuncture, 8 in serology and blood banking, 12 in clinical chemistry, 3 in pathology and histology, and additional credit toward MLT or MT on the basis of national proficiency examination (2/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in microbiology (including bacteriology, parasitology, and mycology), 10 in hematology, 5 in clinical microbiology and venapuncture, 8 in serology and blood banking, 12 in clinical chemistry, 3 in pathology and histology, and additional credit toward MLT or MT on the basis of national proficiency examination (2/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in microbiology (including bacteriology, parasitology, and mycology), 10 in hematology, 5 in clinical microbiology and venapuncture, 8 in serology and blood banking, 12 in clinical chemistry, 3 in pathology and histology, and additional credit toward MLT or MT on the basis of national proficiency examination (2/74).

Version 2: In the vocational certificate category, 12 semester hours in bacteriology and blood chemistry, 7 in hematology, 6 in clinical microbiology and venapuncture, and additional credit toward MLT on the basis of national proficiency examination (2/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in bacteriology and blood chemistry, 7 in hematology, 6 in clinical microbiology and venapuncture, and additional credit toward MLT on the basis of national proficiency examination (2/74).

**NV-0702-0003**

1. **MEDICAL LABORATORY TECHNICIAN, ADVANCED**
   - **BLOOD AND CLINICAL LABORATORY TECHNIC**

   **Course Number:** B-311-0018; B-311-18; B-311-19

   **Location:** Health Sciences Education and Training Command, Bethesda, MD; School of Health Sciences, San Diego, CA

   **Length:** 26 weeks (1040 hours).

   **Exhibit Dates:** 1/76-Present.

   Objectives: To train personnel to perform advanced laboratory procedures and to assist in all phases of blood bank operations.

   **Instruction:** All Versions: Lectures in bacteriology, serology and blood banking, hematology, parasitology, blood and clinical chemistry, urinalysis and venapuncture techniques.

   **Version 2:** Includes histopathology.

   **Credit Recommendation:**

   Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in urinalysis techniques, 3 in parasitology and 1 in laboratory organization (7/77); in the upper-division baccalaureate category, 12 semester hours in blood banking and serology, 6 in immunohematology, 6 in microbiology, and 6 in hematology (9/77).

   Version 2: In the vocational certificate category, 12 semester hours in bacteriology and blood chemistry, 7 in hematology, 6 in clinical microbiology and venapuncture, and additional credit toward MLT on the basis of national proficiency examination (2/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in bacteriology and blood chemistry, 7 in hematology, 6 in clinical microbiology and venapuncture, and additional credit toward MLT on the basis of national proficiency examination (2/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in bacteriology and blood chemistry, 7 in hematology, 6 in clinical microbiology and venapuncture, and additional credit toward MLT on the basis of national proficiency examination (2/74).

   **NV-0702-0004**

   **UROLOGICAL TECHNICIAN (UROLOGIC TECHNICIAN, CLASS C)**

   **UROLOGIC TECHNICIAN, CLASS C**

   **Course Number:** B-300-0025; B-300-25; B-300-26; B-300-27; B-300-28

   **Location:** National Naval Medical Center, Bethesda, MD; Naval Hospital, Oakland, CA; Naval School, Portsmouth, VA; School of Health Science, San Diego, CA.

   **Length:** 26 weeks (1040 hours).

   **Exhibit Dates:** 1/55-Present.

   Objectives: To train technicians to assist medical officers in the examination and treatment of urological patients.

   **Instruction:** Lectures and practical exercises in mathematics of analytical chemistry, quantitative analysis, instrumention, organic chemistry, enzyme chemistry, stereochemistry, toxidology, and preparation of standards and solutions.

   **Credit Recommendation:** In the vocational certificate category, 5 semester hours in medical laboratory technology or chemistry (2/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in medical laboratory technology or chemistry (2/74); in the upper-division baccalaureate category, credit in chemistry on the basis of institutional examination (12/68).

   **NV-0702-0005**

   **TISSUE BANK TECHNICIAN, CLASS C**

   (Tissue Bank Technician)

   **Course Number:** Not available.

   **Location:** National Naval Medical Center, Bethesda, MD.

   **Length:** 26 weeks (1040 hours).

   **Exhibit Dates:** 1/76/Present.

   Objectives: To train personnel to perform tissue banking procedures.

   **Instruction:** Lectures and practical exercises in basic medical laboratory procedures, including bacteriology, hematology, blood processing, serology, biochemistry, urinalysis, pathology, and parasitology.

   **Credit Recommendation:** In the vocational certificate category, 2 semester hours in biology, 2 in chemistry, 2 in bacteriology (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in biology, 2 in chemistry, 2 in bacteriology (7/74); in the upper-division baccalaureate category, 2 semester hours in biology, 2 in chemistry, 2 in bacteriology (7/74).

   **NV-0702-0006**

   **CLINICAL CHEMISTRY TECHNICIAN, CLASS C**

   (Clinical Chemistry Technician)

   **Course Number:** B-311-15-12; B-311-15-13

   **Location:** National Naval Medical Center, Bethesda, MD.

   **Length:** 12 weeks (480 hours).

   **Exhibit Dates:** 12/63-Present.

   Objectives: To train enlisted personnel to conduct quantitative and qualitative analytical tests on clinical laboratory samples.

   **Instruction:** Lectures and practical exercises in mathematics of analytical chemistry, quantitative analysis, instrumentation, organic chemistry, enzyme chemistry, stereochemistry, toxidology, and preparation of standards and solutions.

   **Credit Recommendation:** In the vocational certificate category, 3 semester hours in medical laboratory technology or chemistry (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in medical laboratory technology or chemistry (2/74); in the upper-division baccalaureate category, credit in chemistry on the basis of institutional examination (12/68).

   **NV-0702-0008**

   **CLINICAL LABORATORY ASSISTANT TECHNIC**

   **Course Number:** B-311-10; B-311-11; B-311-12; B-311-13

   **Location:** Naval School, Portsmouth, VA; Naval School, Brooklyn, NY; Naval School, Great Lakes, IL; Naval School, Oakland, CA.

   **Length:** 12 weeks (480 hours).

   **Exhibit Dates:** 7/64-Present.

   Objectives: To train enlisted personnel in basic medical laboratory procedures.

   **Instruction:** Lectures and practical exercises in basic medical laboratory procedures, including bacteriology, hematology, blood processing, serology, biochemistry, urinalysis, pathology, and parasitology.

   **Credit Recommendation:** In the vocational certificate category, 2 semester hours in biology, 2 in chemistry, 2 in bacteriology (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in biology, 2 in chemistry, 2 in bacteriology (7/74); in the upper-division baccalaureate category, 2 semester hours in biology, 2 in chemistry, 2 in bacteriology (7/74).
NV-0702-0009  
**CYTOTECHNOLOGIST**  
*Course Number:* B-311-0036.  
*Location:* Naval Medical Center, Bethesda, MD; School of Health Sciences, San Diego, CA.  
*Length:* 52 weeks (1938 hours).  
*Exhibit Dates:* 1/72-Present.  
*Objectives:* To train individuals competent to prepare, examine, and evaluate slides of cellular materials for diagnostic purposes.  
*Instruction:* Topics cover cytology specimen preparation including techniques for collection fixation and preparation of cellular materials; examination and evaluation of cellular materials obtained from a variety of tissue sites and diagnostic determinations.  
*Credt Recommendation:* Insufficient data for evaluation (2/74).

NV-0703-0003  
**NEUROPSYCHIATRY TECHNICIAN, CLASS C (NEUROPSYCHIATRY TECHNIC)**  
*Course Number:* B-302-45; B-302-46; B-302-47.  
*Location:* National Naval Medical Center, Bethesda, MD; Version 2: Naval Hospital, Oakland, CA; Naval Hospital, Philadelphia, PA.  
*Length:* 16 weeks (640 hours).  
*Exhibit Dates:* 1/57-12/65.  
*Objectives:* To train enlistee personnel to assist in the care and treatment of neuropsychiatric patients.  
*Instruction:* Lectures in neuropsychiatric problems; practical training in first aid, including injuries of mental patients; ward service; clinical experience; special therapies, and general psychiatric nursing.  
*Credt Recommendation:* Insufficient data for evaluation (2/74).

NV-0703-0001  
1. OB/GYN NURSE PRACTITIONER  
2. OB/GYN NURSE CLINICIAN  
*Course Number:* Version 1: B-6F-0012.  
Version 2: B-6F-012; B-6F-12.  
*Location:* Version 1: Regional Medical Center, Portsmouth, VA; Version 2: Selected Naval Hospitals, United States.  
*Objectives:* To train nurse corps officers to assist physicians in obstetrical and gynecological ambulatory health care.  
*Instruction:* Lectures and clinical practice in endocrinology, obstetrics, gynecology, oncology, neonatology, embryology, pharmacology, psychological counseling, radiology, medical and legal aspects of obstetrics and gynecology, family planning counseling and techniques.  
*Credt Recommendation:* Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in histologic techniques (slide preparation) (8/77); in the upper-division baccalaureate category, 26 semester hours in diagnosis and evaluation of cellular material (8/77).

NV-0703-0004  
**OPERATING ROOM TECHNICIAN, CLASS C (OPERATING ROOM TECHNIC)**  
*Course Number:* Version 1: B-301-0033.  
Version 2: B-301-30; B-301-33; B-301-34; B-301-36; B-301-38.  
*Location:* National Naval Medical Center, Bethesda, MD; Naval Regional Medical Center, Oakland, CA; School of Health Sciences, Detachments, Portsmouth, VA; School of Health Sciences, San Diego, CA; Naval Hospital, Chelsea, MA; Naval Hospital, Great Lakes, IL.  
*Objectives:* To train personnel in the preparation and maintenance of operating rooms for surgery and participation in surgical procedures.  
*Instruction:* Practical clinical experience in preparation of supplies and instruments for sterilization, operating room and splint techniques, operating room nursing principles, and supply management.  
*Credt Recommendation:* Version 1: In the vocational certificate category, 2 semester hours in operating room techniques and 16 in clinical application of operating room techniques (8/77). Version 2: In the vocational certificate category, 2 semester hours in medical laboratory technology, 8 in operating room nursing and procedures on the basis of institutional examination, additional credit in operating room nursing and procedures on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in biology, 1 in medical laboratory technology, 8 in operating room nursing and procedures on the basis of institutional examination, 2 in clinical "administration, and additional credit in operating room nursing and procedures on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 2 semester hours in biology, 1 in medical laboratory technology.  
*Credt Recommendation:* Version 1: Insufficient data for evaluation (2/74).  

NV-0703-0005  
1. HOSPITAL CORPSMAN, BASIC  
2. BASIC HOSPITAL CORPS SCHOOL, CLASS A  
(HOSPITAL CORPSMAN, CLASS A)  
3. BASIC HOSPITAL CORPS SCHOOL, CLASS A  
4. BASIC HOSPITAL CORPS SCHOOL, CLASS A  
5. BASIC HOSPITAL CORPS SCHOOL, CLASS A  
*Course Number:* B-300-0010; B-300-10; B-300-11.  
*Location:* Hospital Corps School, Great Lakes, IL. School of Health Sciences, San Diego, CA.  
*Objectives:* To train enlisted personnel in the basic principles and techniques of patient care and first aid procedures.  
*Instruction:* All Versions: Lectures and clinical experience in the field of biological, medical, and chemical safety; and trauma management and treatment. Version 1: 10-week course does not include clinical experience.  
*Credt Recommendation:* Version 1: Insufficient data for evaluation (2/74).  
Version 2: In the vocational certificate category, 3 semester hours in anatomy and physiology, first aid and minor surgery; hygiene and sanitation; pharmacology; toxicology; medical laboratory and patient care techniques; infectious diseases; and medical care of the elderly.  
*Credt Recommendation:* Version 2: Insufficient data for evaluation (2/74).  

NV-0703-0002  
**OPERATING ROOM TECHNIC AND MANAGEMENT**  
*Course Number:* None.  
*Location:* Long Beach Hospital, Long Beach, CA.  
*Length:* 26 weeks (1040 hours).  
*Exhibit Dates:* 8/72-12/72.  
*Objectives:* To prepare nurses as surgical assistants and operating room supervisors.  
*Instruction:* Lectures and clinical experience in surgical environment; sterilization, disinfection, and antisepsis; management of surgical supplies, instruments, and equipment; manual and instrument techniques in the operating room; and standards and controls in the operating room.
hygiene, 2 in pharmacology, 8 in nursing techniques (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 2 in health and hygiene, 2 in pharmacology, 8 in nursing techniques (2/74); in the upper-division baccalaureate category, 3 semester hours in anatomy and physiology, 2 in health and hygiene, 2 in pharmacology, 8 in nursing techniques (2/74). Version 4: The vocational certificate category, 3 semester hours in anatomy and physiology, 2 in health and hygiene, 2 in pharmacology, 8 in nursing techniques (2/74). Location: Naval Hospital, San Diego, CA. All Versions: National Naval Medical Center, Bethesda, MD; School of Health Sciences, San Diego, CA. Length: Version 1: (Phase I) 28 weeks (1120 hours); (Phase II) 16 weeks (640 hours). Version 2: 28 weeks (1120 hours). Version 3: 21 weeks (714 hours). Version 4: 26 weeks (880 hours).


Objectives: To train enlisted personnel to perform duties as physical and occupational therapy assistants.

Instruction: All Versions: Lectures and clinical exercises in anatomy; physiology; physics; psychology and psychiatry; principles of rehabilitation; massage; electrotherapy; radiation therapy; and neurology, hydrotherapy and therapeutic exercise. Version 1: In the upper-division baccalaureate/associate degree category, 3 semester hours in orthopedic appliance technology on the basis of institutional examination, 3 in anatomy and physiology, 3 in machine tools, 3 in industrial arts (2/74); in the upper-division baccalaureate category, 3 semester hours in orthopedic appliance technology on the basis of institutional examination, 3 in anatomy and physiology, 3 in machine tools, 3 in industrial arts (12/68).

NV-0704-0002

1. PHYSICAL AND OCCUPATIONAL THERAPY TECHNICIAN, PHASES I AND II

2. PHYSICAL AND OCCUPATIONAL THERAPY TECHNICIAN, CLASS C

(Physical and Occupational Therapy Technician)

PHYSICAL THERAPY TECHNICIAN, CLASS C

PHYSICAL THERAPY TECHNICIAN, CLASS C (Physical Therapy Technician)

OCCUPATIONAL THERAPY TECHNICIAN, CLASS C

OCCUPATIONAL THERAPY TECHNICIAN, CLASS C (Occupational Therapy Technician)

Credit Recommendation: All Versions: In the vocational certificate category, 2 semester hours in anatomy and physiology, 2 in physical therapy assisting, physical therapy, occupational therapy assisting, or occupational therapy on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy, 1 in physiology, 2 in physical science, 2 in psychology, and 4 in applied art, or credit in physical therapy assisting, physical therapy, occupational therapy assisting, or occupational therapy on the basis of institutional examination (2/74). Version 3: In the vocational certificate category, 2 semester hours in anatomy, 1 in physiology, and 3 in physical science, or credit in physical therapy assisting, physical therapy, occupational therapy assisting, or occupational therapy on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy, 1 in physiology, 2 in physical science, 2 in psychology, and 4 in applied art, or credit in physical therapy assisting, physical therapy, occupational therapy assisting, or occupational therapy on the basis of institutional examination (2/74). Version 4: In the vocational certificate category, 2 semester hours in anatomy, 1 in physiology, and 3 in physical science, or credit in physical therapy assisting, physical therapy, occupational therapy assisting, or occupational therapy on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 2 semester hours in anatomy, 1 in physiology, 2 in physical science, 2 in psychology, and 4 in applied art, or credit in physical therapy assisting, physical therapy, occupational therapy assisting, or occupational therapy on the basis of institutional examination (2/74).

NV-0704-0003

OCCUPATIONAL THERAPY TECHNICIAN, CLASS C

OCCUPATIONAL THERAPY TECHNICIAN, CLASS C (Occupational Therapy Technician)

NV-0704-0003
1-70

COURSE EXHIBITS

therapy; and craft instruction, including textile painting, leatherwork, ceramics, metalwork, weaving, woodwork, and minor crafts.

Credit Recommendation: In the vocational certificate category, 2 semester hours in anatomy, 1 in physiology, 1 in physics, 2 in psychology, 6 in applied arts and credit in occupational therapy on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy, 1 in physiology, 1 in physics, 2 in psychology, 6 in applied arts and credit in occupational therapy on the basis of institutional examination (2/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in algebra, 6 in physics, 6 in psychology, and 5 in hematology (7/74); in the lower-division baccalaureate category, 3 semester hours in algebra, 6 in physics, 6 in biology, and 3 in hematology (7/74); in the upper-division baccalaureate category, 3 semester hours in algebra, 6 in physics, 6 in biology, and 3 in hematology (7/74). Version 2: In the vocational certificate category, 4 semester hours in general chemistry, 3 in mathematics, and 1 in radioisotope technology; in the lower-division baccalaureate/associate degree category, 4 semester hours in general chemistry, 3 in mathematics, 8 in radioisotope technology, 4 in physical science, and additional credit in radioisotope technology on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 2 semester hours in general chemistry (12/68).

NY-0705-0003

1. X-RAY TECHNICIAN
   2. X-RAY TECHNIQUE: (X-RAY TECHNICIAN, CLASS C)
   (X-RAY TECHNICIAN)

   Course Number: All Versions: B-1310-0026.
   Version 1: B-1310-26; B-1310-27; B-1310-28.
   Version 2: B-1310-29; B-1310-30; B-1310-31; B-1310-33; B-1310-34.
   Location: All Versions: School of Health Sciences Department, Portsmouth, VA; School of Health Sciences, San Diego, CA; Naval Medical Center, Bethesda, MD; Naval Hospital, Oak Park, IL; Naval Hospital, Chelsea, MA; Naval Hospital, Great Lakes, IL; Naval Hospital, Oakland, CA; Naval Hospital, Philadelphia, PA.

   Objectives: To train technicians to operate medical x-ray equipment, to produce and interpret diagnostic radiographs, to assist in the application of radiation therapy, and to assist in fluoroscopic examinations.

   Instruction: Lectures on mathematics and electricity, clinical application of radiologic and fluoroscopic techniques; photodensitometry and radiation safety, film, screen, and film processing procedures; and radiation therapy.

   Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in mathematics, 8 in anatomy, 8 in radiation physics and electronics, 8 in radiologic techniques, 3 in radiation safety, 3 in radiobiology, 3 in nuclear medicine technology, 3 in special procedures, and 1 in ethics for a total of 43 semester hours (8/77). Version 2: In the vocational certificate category, 12 semester hours in radiologic technology; 2 in radiation therapy, 3 in physical science and mathematics, and additional credit in radiologic technology on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in radiologic technology, 2 in radiation therapy, 3 in physical science and mathematics, and additional credit in radiologic technology on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 12 semester hours in radiologic technology, 2 in radiation therapy, 5 in physical science and mathematics, and additional credit in radiologic technology on the basis of institutional examination (2/74).

NY-0705-0004

NUCLEAR MEDICINE TECHNICIAN

(NUCLEAR MEDICINE TECHNICIAN)

Course Number: B-322-0010.
Location: Submarine Medical Center, Groton, CT.
Length: 12 weeks (355-398 hours).
Exhibit Dates: 1/63-7/70.

Objectives: To train enlisted personnel in radiation monitoring and surveys.

Instruction: Lectures and practical exercises in radiation monitoring and surveys, including radiological administration, mathematics, physics, reactor plant technology, radiobiology, and dosimetry.

Credit Recommendation: In the vocational certificate category, 6 semester hours in algebra, 6 in physics, and credit in nuclear medical technology, radiology or occupational safety and health on the basis of institutional examination (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in algebra, 6 in physics, and credit in nuclear medical technology, radiology, occupational safety and health on the basis of institutional examination (7/74).

NY-0705-0005

SUBMARINE TENDER RADIOLOGICAL CONTROLS (ENLISTED)

Course Number: F-000-034.
Location: Submarine School, Groton, CT.
Length: 5 weeks (150 hours).
Exhibit Dates: 9/72-7/73.

Objectives: To train enlisted personnel in submarine tender radiological control theory.

Instruction: Lectures and practical exercises in submarine tender radiological control theory, including types of radiation; units of radiation and radioactivity; radiation detection and shielding; airborne radioactivity surveys; contamination control; decontamination; submarine tender nuclear support facilities and systems; computing statistics and applications; and radiological work practices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in radiology (7/74); in the upper-division baccalaureate category, 2 semester hours in radiology (12/68).

NY-0706-0001

OPTICIAN (GENERAL) TECHNICIAN, CLASS C

Course Number: B-300-20.
Location: National Naval Medical Center, Bethesda, MD.
Length: 24-40 weeks (960 hours).
Exhibit Dates: 1/63-7/70.
Objectives: To train personnel in the fitting, adjusting and dispensing of spectacles.

Instruction: Lectures and practical application of optometric anatomy and physical and geometric optics.

Credit Recommendation: In the vocational certificate category, 15 semester hours in anatomy and physiology, additional credit on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 20 semester hours in optical technology (2/74); in the upper-division baccalaureate/associate degree category, 20 semester hours in optical technology (2/74); in the upper-division baccalaureate/associate degree category, 20 semester hours in optical technology (2/74).

NV-0707-0001
1. PREVENTIVE MEDICINE TECHNICIAN, CLASS C
   (PREVENTIVE MEDICINE TECHNICIAN)
2. ENVIRONMENTAL SANITATION TECHNICIAN
   (ENVIRONMENTAL SANITATION TECHNICIAN)

Course Number: 8.300-1.7.
Location: Naval Hospital, Oakland, CA.


Objectives: To train enlisted personnel to assist medical officers in epidemiological and sanitation work.

Instruction: Lectures and practical exercises in bacteriology, immunology, mathematics, statistics, environmental sanitation, and environmental sanitation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in speech and communications or general business, 2 in bacteriology, 2 in microbiology, 2 in statistics, 6 in environmental sanitation (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in speech and communications or general business, 2 in bacteriology, 2 in microbiology, 2 in statistics, 6 in environmental sanitation (2/74); in the upper-division baccalaureate category, 2 semester hours in speech and communications or general business, 2 in bacteriology, 2 in microbiology, 2 in statistics, 6 in environmental sanitation (2/74); in the upper-division haccalaureate category, 2 semester hours in speech and communications or general business, 2 in bacteriology, 2 in microbiology, 2 in statistics, 6 in environmental sanitation (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and physiology, additional credit on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 2 semester hours in anatomy and physiology, 2 in typing, 4 in aviation medicine technology, and additional credit on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and physiology, 2 in typing, 4 in aviation medicine technology, and additional credit on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 2 semester hours in anatomy and physiology, 2 in typing, 4 in aviation medicine technology, and additional credit on the basis of institutional examination (2/74).
SUBMARINE MEDICINE TECHNICIAN, CLASS C

**NV-0709-0007**

**Course Number:** B-300-12

**Location:** Submarine Medical Center, New London, CT

**Length:** 2 years (365 hours)

**Exhibit Dates:** 1/55-12/65

**Objectives:** To train technicians in the administration of medical care aboard submarines.

**Instruction:** Lectures and practical exercises in medical diagnosis and treatment procedures, anatomy, physiology, pharmacology, and laboratory procedures, minor surgery and first aid, and hygiene and sanitation.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in first aid and hygiene, 3 in nursing, 3 in medical laboratory technology, 12 in health care science, and additional credit in nursing, medical laboratory technology, or health care science on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in first aid and hygiene, 3 in nursing, 3 in medical laboratory technology, 12 in health care science, and additional credit in nursing, medical laboratory technology, or health care science on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 3 semester hours in first aid and hygiene (12/68).

**NV-0709-0008**

1. **ADVANCED HOSPITAL CORPSMAN (INDEPENDENT DUTY TECHNICIAN)**

2. **MEDICAL SERVICES TECHNICIAN, CLASS C**

3. **ADVANCED HOSPITAL CORPSMANN (HOSPITAL CORPSMAN, ADVANCED)**

**Course Number:** Version 1: B-300-0016; Version 2: B-300-0019; All Versions: B-300-15B-300-16

**Location:** School of Health Sciences, San Diego, CA; Naval Hospital, Portsmouth, VA

**Length:** Version 1: 40 weeks (1600 hours); Version 2: 36 weeks (1350 hours); Version 3: 20-26 weeks (800-1040 hours)

**Exhibit Dates:** Version 1: 4/76-Present; Version 2: 3/72-3/76; Version 3: 1/55-2/72

**Objectives:** To provide medical service technicians with advanced training in the principles and techniques of medical treatment, including patient care, first aid, emergency procedures, preventive medicine, industrial safety, and administrative duties.

**Instruction:** Lectures and practical exercises in advanced medical and surgical conditions, diagnostics and treatment procedures, material processing and control, pharmacy calculations and pharmacy, medical laboratory technology, and industrial hygiene, nuclear and biological defense, fiscal management, effective speaking, teaching methods, personnel management, and administrative techniques.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 2 in first aid, 3 in pharmacology, 1 in clinical laboratory, 1 in business administration, 3 in English, 2 in psychology, and additional credit in nursing or physician assisting on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 2 in first aid, 3 in pharmacology, 1 in clinical laboratory, 1 in business administration, 3 in English, 2 in psychology, and additional credit in nursing or physician assisting on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 2 semester hours in anatomy and physiology, 2 in first aid, 3 in pharmacology, 1 in clinical laboratory, 1 in business administration, 3 in English, 2 in psychology, and additional credit in nursing or physician assisting on the basis of institutional examination (2/74).
I. OTOLARYNGOLOGY TECHNICIAN

2. EYE, EAR, NOSE AND THROAT

TECHNICIAN, CLASS C

Course Number: Version 1: B-300-0024.
Version 2: B-300-21; B-300-24; B-300-22; B-300-23.

Location: All Versions: National Naval Medical Center, Bethesda, MD; School of Hospital Medicine, San Diego, CA; Naval Hospital, Oakland, CA; Naval Hospital, Philadelphia, PA.


Objectives: To train personnel to assist medical officers in the care and treatment of patients for ear, nose, and throat conditions.

Instruction: All Versions: Lectures on the medical and surgical conditions of ear, nose and throat; audiometry; emergencies; nursing care; and operating room procedures. Topics also include care and conditions of the eye.

Credit Recommendation: Version 1: In the vocational certificate category, 4 semester hours in otolaryngology operating room techniques (B/77); in the lower-division baccalaureate/associate degree category, 2 semester hours in otolaryngology anatomy (B/77); in radiology and radiography, 9 in audiology and audiometry, and 6 in diagnostic and therapeutic techniques (B/77).

Version 2: In the vocational certificate category, 12 semester hours in health care technology, 3 in nursing, 3 in anatomy and physiology, and additional credit in health care technology on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in anatomy and physiology, or electrocardiographic and respiratory technology, and additional credit on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 12 semester hours in anatomy and physiology, or electrocardiographic and respiratory technology, and additional credit on the basis of institutional examination (2/74).

NY-0709-0011

ELECTROENCEPHALOGRAPHY TECHNICIAN,
CLASS C

Course Number: All Versions: B-302-40; B-302-43.
Version 2: B-302-41; B-302-42; B-302-44.

Location: All Versions: National Naval Medical Center, Bethesda, MD; Naval Hospital, San Diego, CA; Naval Hospital, St. Albans, NY; Naval Hospital, Bethesda, MD; Naval Hospital, Chelsea, MA; Naval Hospital, Oakland, CA.

Length: 16 weeks (640 hours).


Objectives: To train personnel in electroencephalographic technology.

Instruction: Lectures and clinical application of patient-interviewing and -handling approaches, summarization of nervous system, clinical neurological, psychiatry and medicine, neurosurgery, basic electricity and electronics, EEG instrumentation, and clinical electroencephalography.

Credit Recommendation: Insufficient data for evaluation (2/74).

NY-0709-0013

DERMATOLOGY TECHNICIAN, CLASS C

Course Number: B-300-29.

Location: Naval Hospital, Philadelphia, PA.

Length: 16-20 weeks (640 hours).

Exhibit Dates: 12/57-Present.

Objectives: To train enlisted personnel to assist medical officers in the care of medical officers of patients with skin disorders.

Instruction: Lectures and laboratory instruction in dermatology assisting, including laboratory techniques, basic bacteriology, serology, hematology, pathology, mycology, and parasitology; common dermatoses diagnosis, medical and surgical therapies, operating room techniques; and special dermatologic treatment procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in epidermology, 2 in medical laboratory technology, 12 in dermatology technology on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in epidermology, 2 in medical laboratory technology, 12 in dermatology technology on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 4 semester hours in epidermology, 2 in medical laboratory technology, 12 in dermatology technology on the basis of institutional examination (2/74).

NY-0709-0015

FIELD MEDICAL SERVICE TECHNICIAN,
(FIELD MEDICAL SERVICE OFFICER)

Course Number: B-300-13; B-300-14.

Location: Field Medical Service School, C. Lejeune, NC; Field Medical Service School, C. Pendleton, CA.

Length: 3-7 weeks (120-280 hours).

Exhibit Dates: 1/55-Present.

Objectives: To train medical personnel in combat survival and field medical and dental practices.

Instruction: Lectures and practical exercises in combat survival and field medical and dental practices. Course includes physical conditioning, the corpsman in the field, field first aid, dental care and procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in first aid (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in first aid (7/74); in the upper-division baccalaureate category, 2 semester hours in first aid (7/74).

NY-0709-0001

NAVY SCHOOL OF HOSPITAL ADMINISTRATION

Course Number: None.

Location: National Naval Medical Center, Bethesda, MD.

Length: 12-40 weeks (940-1337 hours).

Exhibit Dates: 4/57-12/68.

Objectives: To provide advanced instruction in the theory and practice of hospital administration for Medical Service Corps officers.

Instruction: Instruction includes accounting, business mathematics, English, fundamentals of instruction, office management, speech, financial management, food service management, law, maintenance management, personnel management, principles of organization, records management, security management, special services, and supply management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in general business (6/75); in the upper-division baccalaureate category, 11 semester hours in general business (6/75).

NY-0709-0003

PHARMACY TECHNICIAN, CLASS C

(Pharmacy Technician)

Course Number: Version 1: B-312-0025.
Version 2: B-312-24; B-312-25.
Version 3: B-312-24; B-312-25.
COURSE EXHIBITS

Location: School of Health Sciences, San Diego, CA; School of Health Sciences Detachment, Portsmouth, VA.

Length: Version 1: 23 weeks (805 hours); Version 2: 16 weeks (710 hours); Version 3: 32 weeks (1200 hours).


Objectives: To train technicians to assist medical and pharmacy officers in the compounding and dispensing of pharmaceutical products.

Instruction: Lectures in principles of pharmacy, pharmacological calculations, administrative, organic, and pharmaceutical chemical; basic pharmacology, drug interaction and toxicology; practical experience in compounding and dispensing pharmacy, and pharmacy administration.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in pharmacy, 1 in pharmacy management, 2 in typography, 3 in organic chemistry, 2 in principles of pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy orientation, 1 in typing, 3 in organic chemistry, 2 in principles of pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy administration, 2 in pharmacy management, 5 in pharmacy, 1 in pharmacy administration (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in pharmaceutical mathematics, 2 in inorganic chemistry, 3 in organic chemistry, 2 in principles of pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy orientation, 1 in typing, 5 in basic pharmacy, and pharmacy administration (2/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in pharmaceutical mathematics, 2 in inorganic chemistry, 3 in organic chemistry, 3 in pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy orientation, 1 in typing, 3 in inorganic chemistry, 2 in principles of pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy orientation, 1 in typing, 3 in inorganic chemistry, 2 in principles of pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy administration (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in pharmaceutical mathematics, 2 in inorganic chemistry, 3 in organic chemistry, 3 in pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy orientation, 1 in typing, 3 in inorganic chemistry, 2 in principles of pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy orientation, 1 in typing, 3 in inorganic chemistry, 2 in principles of pharmacy, 4 in compounding and dispensing pharmacy, 1 in pharmacy administration (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in health sciences (6/75).

NV-0799-0005

DRUG AND ALCOHOL PROGRAM ADVISOR

Course Number: A-000-0055.

Location: Training Center, San Diego, CA; Training Center, Charleston, SC; Training Center, Pearl Harbor, HI; Training Center, Rota, Spain; Training Center, Norfolk, VA; Training Center, Treasure Island, CA.

Length: 2 weeks (55 hours).

Exhibit Dates: 9/74-Present.

Objectives: To train command designated officers and senior petty officers to perform as drug and alcohol program advisors.

Instruction: Lectures and discussions of polices concerning drugs and alcohol; physiological and psychological effects; planning and administering prevention-programs; identifying, utilizing, and understanding resources both internal and external to the Navy.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in health sciences (6/75).

NV-0801-0001

NUCLEAR, BIOLOGICAL AND CHEMICAL DEFENSE (SHIPBOARD)

Course Number: J-2G-420; J-780-420.

Location: Fleet Training Center, Norfolk, VA.

Length: 2 weeks (70 hours).

Exhibit Dates: 5/68-Present.

Objectives: To train personnel in hazard detection and decontamination of personnel and material.

Instruction: Lectures and practical exercises in nuclear, biological, and chemical defense at sea, including nature of nuclear radiation, ionization and its effects, fire, radio detection and measuring equipment, effects of nuclear detonations and minimizing measures, radioactive contamination and decontamination procedures, accidental contamination of nuclear ordnance containing plutonium, and chemical and biological agents, features, effects, defense, and countermeasures.

Credit Recommendation: No credit because of the limited technical nature of the course (12/68).

NV-0801-0004

NBC DEFENSE FOR PETTY OFFICERS

Course Number: Not available.

Location: Version 1: Damage Control Training Center, Philadelphia, PA; Version 2: Damage Control School, Treasure Island, CA.

Length: Version 1: 3 weeks (90 hours); Version 2: 5/68-Present.

Objectives: To train personnel to perform as advanced damage controlmen strikers.

Instruction: Lectures and practical exercises in nuclear, biological, and chemical defense at sea, including classification, detection, and decontamination of BW/CW agents and nuclear radiation; operation and maintenance of radioc equipment, maintenance of protective clothing and masks; training of personnel in monitoring and decontamination procedures for repair parties; nuclear warfare defense; and NBC warfare defense organization.

Credit Recommendation: No credit because of the limited technical nature of the course (5/74).

NV-0801-0005

DRUG ABUSE EDUCATION SPECIALIST

Course Number: A-000-0053.

Location: Training Center, San Diego, CA.

Length: 5 weeks (200 hours).

Exhibit Dates: 10/73-Present.

Objectives: To provide instruction in the development, implementation, evaluation, and revision of command drug and alcohol education and prevention programs.

Instruction: Lectures, discussions, and practical exercises in organization and administration of drug abuse education programs, including history of abuse, behavioral patterns, problem identification, and rehabilitation techniques. Methods of instruction include communications techniques such as group therapy and role playing.

Credit Recommendation: In the vocational certificate category, 3 semester hours in medical technology (5/74).

NV-0801-0003

DISASTER RECOVERY, TRAINING I AND II

Course Number: None.

Location: Naval Construction Battalion Center, Port Hueneme, CA; Naval Construction Battalion Center, Davisville, RI; Naval Construction Battalion Center, Gulfport, MS.

Length: 4 weeks.

Exhibit Dates: 6/66-12/68.

Objectives: To train personnel to cope with the effects of a disaster.

Instruction: Lectures and practical exercises on disaster control, including fundamentals of nuclear energy, effects of nuclear weapons, fallout, biological and chemical warfare, nuclear accidents, protective equipment, communications, radioc equipment, biological sampling, chemical detection, radiological surveys and decontamination, biological and chemical decontamination, and first aid.

Credit Recommendation: No credit because of the limited technical nature of the course (12/68).

NV-0801-0004

NBC DEFENSE FOR PETTY OFFICERS

Course Number: Not available.

Location: Version 1: Damage Control Training Center, Philadelphia, PA; Version 2: Damage Control School, Treasure Island, CA.

Length: Version 1: 3 weeks (90 hours); Version 2: 5/68-Present.

Objectives: To train personnel to perform as advanced damage controlmen strikers.

Instruction: Lectures and practical exercises in nuclear, biological, and chemical defense at sea, including classification, detection, and decontamination of BW/CW agents and nuclear radiation; operation and maintenance of radioc equipment, maintenance of protective clothing and masks; training of personnel in monitoring and decontamination procedures for repair parties; nuclear warfare defense; and NBC warfare defense organization.

Credit Recommendation: No credit because of the limited technical nature of the course (5/74).
Course: Nuclear Weapons Disposal Advanced Refresher  
Course Number: A-4E-0025; A-431-0015  
Location: Explosive Ordnance Disposal School, Indian Head, MD.  
Length: 2 weeks (165 hours).  
Exhibit Dates: 10/70-Present.  
Objectives: To train qualified explosive ordnance disposal personnel in new methods, new equipment, and advanced disposal procedures and safety precautions in explosive ordnance disposal operations.  
Credit Recommendation: No credit because of the military nature of the course (5/74).

Course: Surface Explosive Ordnance Disposal (EOD) Advanced Refresher  
Course Number: A-4E-0025; A-431-0015  
Location: Explosive Ordnance Disposal School, Indian Head, MD.  
Length: 2 weeks (165 hours).  
Exhibit Dates: 10/70-Present.  
Objectives: To train qualified explosive ordnance disposal personnel in new methods, new equipment, and advanced disposal procedures and safety precautions in explosive ordnance disposal operations.  
Credit Recommendation: No credit because of the military nature of the course (5/74).

Course: Nuclear Weapons Technical (CVA)  
Course Number: J-4E-9142; J-644-9142  
Location: Nuclear Weapons Training Group, Atlantic, Norfolk, VA.  
Length: 3 weeks (115 hours).  
Exhibit Dates: 3/73-Present.  
Objectives: To train W-Division personnel in the special administrative, technical, and operational procedures specific to CVA shops with a nuclear weapons capability.  
Credit Recommendation: No credit because of the military nature of the course (5/74).

Course: Radiographic Safety Officer  
Course Number: A-4G-0018  
Location: Welding Class C School, San Diego, CA.  
Length: 2 weeks (65 hours).  
Exhibit Dates: 2/68-Present.  
Objectives: To train personnel to perform as radiographic safety officers and to supervise radiographers.  
Credit Recommendation: No credit because of the military nature of the course (5/74).
1-76 COURSE EXHIBITS

NV-0802-0007
NUCLEAR WEAPONS DISPOSAL
Course Number: A-431-0013.
Location: Explosive Ordnance Disposal School, Indian Head, MD.
Length: 6 weeks (121-126 hours).
Exhibit Dates: 9/72-Present.
Objectives: To train officers and enlisted personnel in nuclear ordnance disposal procedures.
Instruction: Lectures and practical exercises in nuclear ordnance disposal procedures, including weapon identification, principles of operation, location of safety devices and components, radiation hazards and packaging, and personnel decontamination operations.
Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-0802-0008
ABC WARFARE DEFENSE AFFLOAT
Course Number: Not available.
Length: 5 weeks (32-40 hours).
Exhibit Dates: 12/59-12/68.
Objectives: To train officers in atomic, biological, and chemical warfare defense affloat.
Instruction: Lectures and practical exercises on ABC warfare defense affloat, including atomic, biological, and chemical warfare; effects on personnel, ships and equipment; methods to reduce or negate these effects; casualty minimization; requirements of shipboard ABC-damage control; radiological detection; nuclear weapon accidents, protection and decontamination; disaster recovery; shipboard organization; and anti-personal biological warfare.
Credit Recommendation: No credit because of the specialized nature of the course (12/68).

NV-0802-0009
"CVA/CVS AIR LAUNCHED WEAPONS SUPERVISOR (CV/CVS LAUNCHED WEAPONS)
Course Number: C-646-3103.
Location: Air Maintenance Training Detachment, Jacksonville, FL.; Air Maintenance Training Detachment, Norfolk, VA.; Air Maintenance Training Detachment, Mayport, FL.; Air Maintenance Training Detachment, North Island, CA.; Air Maintenance Training Detachment, Alameda, CA.
Length: 2-4 weeks (120-160 hours).
Exhibit Dates: 8/67-Present.
Objectives: To train personnel in the complete sequence of air launched weapons handling.
Instruction: Lectures and practical exercises in procedures and safely precautions in receiving, service inspection, stowage, storage, breakout, assembly, fuzing, and reporting and recording of air-launched weapons. Topics include ammunition, pyrotechnics, aircraft munitions, and guided missiles.
Credit Recommendation: In the vocational certificate category, 1 semester hours in explosives (5/74).

NV-0802-0010
FALLOUT SHELTER ANALYSIS
Course Number: A-4A-0015.
Location: Civil Engineer Corps Officers School, Port Hueneme, CA.
Length: 3-4 weeks (120-160 hours).
Exhibit Dates: 5/72-Present.
Objectives: To provide personnel with an understanding of the strategic, nuclear threat and the rationale and importance of a fallout shelter system.
Instruction: Lectures and practical exercises in nuclear energy and the effects of nuclear weapons, fallout radiation shielding, computer applications, and shelter planning and utilization.
Credit: No credit because of the limited technical nature of the course (5/74).

NV-0803-0001
AMPHIBIOUS RECONNAISSANCE
Course Number: G-2E-4610; G-010-4610; H-2E-3923; H-030-3923.
Location: Landing Force Training Command, Norfolk, VA.; Naval Amphibious Base, San Diego, CA.
Length: 3-4 weeks (181-191 hours).
Exhibit Dates: 5/69-Present.
Objectives: To train officers and enlisted personnel to conduct amphibious reconnaissance patrols.
Instruction: Lectures in map reading, scouting and patrolling techniques, hydrography, and underwater skills, with emphasis on physical conditioning and swimming.
Credit Recommendation: In the vocational certificate category, credit in physical education and swimming on the basis of institutional examination (5/76).

NV-0803-0002
1. ADVANCED NAVAL PARACHUTIST, CLASS C1
2. ADVANCED NAVAL PARACHUTIST, NP-II, CLASS C
(NAVAL PARACHUTIST, ADVANCED, CLASS C)
Course Number: C-602-202.
Location: Air Technical, Training Center, Lakhurst, NJ.
Objectives: To provide selected Navv and Marine Corps personnel with knowledge and skills to accomplish delayed stable fall parachute descents utilizing advanced glide surface parachutes and high-altitude oxygen equipment.
Instruction: Lectures and practical exercises to include advanced parachute theory, equipment and parachute operations, pack assembly, altitude target accuracy, extended delayed opening descents, safety checks of parachute equipment, and emergency actions.
Credit Recommendation: No credit because of the limited technical nature of the course (5/74).

NV-1002-0001
"BUILDING—TOOL AND EQUIPMENT MAINTENANCE (BU "C")
Course Number: A-712-0010.
Location: Construction Training Center, Gulfport, MS, Construction Training Center, Port Hueneme, CA, Construction School, Davisville, RI.
Length: 10-12 weeks (320-360 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train personnel to maintain, recondition, and repair tools and machinery.
Instruction: Lectures and practical exercises in preventive maintenance, reconditioning and repair of all types of carpenter, shop machinery, including all powered hand tools for the builder construction trade, non-powered edge and non-edge hand tools for the construction trade; woodworking and sawmill sharpening equipment; two-man saw mill; splice hand; saw blades; and sanding and drive belts, coordinate stocking and procurement.
Credit Recommendation: In the vocational certificate category, semester hours in industrial arts/tool and equipment repair (7/76); in the lower-division baccalaureate/associate degree category, 3 semester hours in industrial arts/tool and equipment repair (7/76).

NV-1115-0001
INTERMEDIATE MAINTENANCE LEVEL DATA ANALYSIS, CLASS C
Course Number: None.
Location: Naval School, Norfolk, VA.; Naval School, San Diego, CA.
Length: 3 weeks (102 hours).
Exhibit Dates: 6/69-Present.
Objectives: To train officers and enlisted personnel to apply statistical analysis to data collection in accounting and maintenance systems.
Instruction: Lectures in basic applied statistical analysis, including mathematics review, frequency distribution, dispersion, confidence estimation, trends, control charts, man-hour accounting, and computer equipment usage.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in introductory statistics (2/74); in the lower-division baccalaureate category, 1 semester hour in introductory statistics (2/74).

NV-1115-0002
1. MANAGEMENT ANALYSIS, CLASS C
2. MANAGEMENT ANALYSIS, CLASS O
Course Number: Version 1: C-7E-2010. Version 2: None.
Location: Air Technical, Training Center, Memphis, TN.
Length: 6 weeks (240 hours).
Objectives: To provide naval officers experienced in maintenance management with training in statistical analysis and maintenance data presentation.
Instruction: Lectures and laboratory in statistical methods, inference, data presentation, and management concepts and problems.
Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in basic statistics (6/75),
the lower-division baccalaureate/associate degree category, 3 semester hours in basic statistics (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic statistics (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic statistics (2/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in basic statistics (2/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in basic statistics (2/74).
1-78 COURSE EXHIBITS

theory, 6 in music performance, and an additional 3 to 6 semester hours in music performance or an equivalent course in the basis of performance audition (4/74).

NV-1303-0001

1. MACHINIST'S MATE, CLASS A (900-PSI)
   (MACHINIST'S MATE, CLASS A 1200-PSI)

2. MACHINIST'S MATURE, CLASS A

3. MACHINIST'S MATE, CLASS A

Course Number: A-651-0015

Location: Service Schools Command, Great Lakes, IL


Objectives: To qualify nonrated personnel as machinist's mates, class A.

Instruction: All Versions: Lectures and practical exercises in the duties of machinist's mates, class A, including refrigeration, auxillary plant operation, lubrication, and propulsion systems. Version 1: Self-paced instruction includes nomenclature, operation, system diagrams, and maintenance of the 600-PSI or 1200-PSI propulsion systems and supporting auxiliary equipment.

Version 2: Topics include pump maintenance, and pneumatics and hydraulics. Algebra, thermodynamics, trigonometry, and chemistry covered in nuclear power plants. Instruction includes basic principles of steam engineering; temperature and pressure measuring instruments; heating, ventilation, and insulation; valves, pipes, tubing, and fittings; pumps and accessories; principal piping systems; logs, records, and computerized telephone and circuit; damage control and survival at sea, and distilling plants.

Credit Recommendation: Version 1: In the baccalaureate/associate degree category, 2 semester hours as technical electives in automotive or mechanical programs and 6 in steam plant repair and maintenance. Version 2: In the vocational certificate category, 8 semester hours as a technical elective in mechanical, mechanical, and 3 additional semester hours in science for students completing the nuclear option (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours as a technical elective in mechanical, mechanical, and 3 additional semester hours in science for students completing the nuclear option (7/74); in the vocational certificate category, 8 semester hours as a technical elective (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours as a technical elective (7/74).

NV-1304-0001

INTRODUCTION TO OCEAN ENGINEERING

Course Number: A-A-0025

Location: Naval School Civil Engineer Corps Offices, Port Hueneme, CA

Length: 2 weeks (40 hours).

Exhibit Dates: 7/70-Present.

Objectives: To provide students with a general knowledge of ocean engineering.

Instruction: Lectures in problems and techniques of ocean engineering, including physical and geological oceanography, legal aspects, and diving.

Credit Recommendation: In the vocational certificate category, 2 semester hours in ocean engineering (12/73); in the lower-division, baccalaureate/associate degree category, 6 semester hours in oceanography (12/73); in the upper-division baccalaureate category, 2 semester hours in marine science (12/73).

NV-1304-0002

AIR-OCEAN ENVIRONMENT COURSE, CLASS C

Course Number: None.

Location: Air Technical Training Center, Lakehurst, NJ

Length: 4 weeks (160-280 hours).

Exhibit Dates: 2/65-Present.

Objectives: To provide enlisted personnel with a basic understanding of the physical and chemical aspects of oceans, and the principles of underwater sound.

Instruction: Lectures and practical experiences in the fundamentals of underwater acoustics, physical oceanography, observational equipment and procedures, and environmental analysis and prediction.

Credit Recommendation: In the vocational certificate category, 6 semester hours in marine sciences (12/73); in the lower-division baccalaureate/associate degree category, 12 semester hours in oceanography (12/73); in the lower-division baccalaureate category, 6 semester hours in ocean engineering (12/73).

NV-1304-0003

AVIATION ANTISUBMARINE WARFARE (AASW) FOR NAVAL FLIGHT OFFICERS, P3C

Course Number: E-2D-0072; E-2D-072

Location: Fleet Aviation Specialized Operational Training Group, Pacific, Moffett Field, CA

Length: 4 weeks (82-105 hours).

Exhibit Dates: 9/72-Present.

Objectives: To train naval flight officers to operate equipped VP squadrons and to teach tactics and weaponry of antisubmarine warfare.

Instruction: Lectures in the procedures for antisubmarine warfare, including oceanography, underwater acoustics, AASW tactical procedures, AASW sensors and associated equipment, current electronic warfare concepts and requirements, and mission procedures. Includes mathematical treatment of acoustic and oceanographic principles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in oceanography (4/74); in the lower-division baccalaureate category, 2 semester hours in oceanography (4/74).

NV-1304-0004

AEROGRAPHER'S MATE, CLASS A

Course Number: C-420-2010

Location: Air Technical Training Center, Lakehurst, NJ

Length: 14-18 weeks (510-717 hours).

Exhibit Dates: 3/56-Present.

Objectives: To train enlisted personnel to perform as aerographer's mates.

Instruction: Lectures and practical exercises in meteorology, including atmospheric pressure, heat, humidity, and the atmospheric surface observations of temperature; barometric pressure, wind, precipitation, and sky conditions; upper-air observations; synoptic codes; oceanography; instrumentation, charts, logs; weather map analysis; and basic weather map analysis.

Credit Recommendation: In the vocational certificate category, 3 semester hours in weather forecasting or meteorology (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in weather forecasting or meteorology (5/74); in the upper-division baccalaureate category, 3 semester hours in weather forecasting or meteorology (12/68).

NV-1304-0005

AEROGRAPHER'S MATE, CLASS B

Course Number: Version 1: C-420-2011

Version 2: C-420-11

Location: Air Technical Training Center, Lakehurst, NJ


Objectives: To train aerographer's mates in meteorology, air observation, and supervision and preparation of weather, and oceanographic forecasts.

Instruction: All Versions: Lectures and practical exercises in meteorology, air observation, and supervision and preparation of weather, and oceanographic forecasts, including various chart analyses, satellite meteorology, instruments, oceanography, map analysis, and forecasting under various conditions. Version 2: Includes atmospheric conditions, tropical meteorology, numerical weather prediction, management, mathematics, and physics applicable to meteorology, and flight observation.

Credit Recommendation: Version 1: In the vocational certificate category, 12 semester hours in weather forecasting or meteorology (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in weather forecasting or meteorology (5/74); in the upper-division baccalaureate category, 3 semester hours in weather forecasting or meteorology (5/74).

Version 2: In the vocational certificate category, 12 semester hours in weather forecasting or meteorology (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in weather forecasting or meteorology (5/74); in the upper-division baccalaureate category, 6 semester hours in weather forecasting or meteorology (12/68).

NV-1304-0006

METEOROLOGICAL SATELLITE, CLASS C

Course Number: Not available.

Location: Air Technical Training Center, Lakehurst, NJ

Length: 4 weeks (140 hours).

Exhibit Dates: 8/66-12/68.

Objectives: To train aerographer's mates in the operation and use of meteorological satellites.

Instruction: Lectures and practical exercises in the operation of automatic picture
transmission terminal ground equipment and the interpretation and application of the received data, including equipment and procedure, operational satellite system, data collection and processing, operation of APT terminal ground equipment, extraction and use of APT data, synoptic application, and operational use of APT equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

**NV-1401-0001**

**Disbursing Clerk (Pay Records Maintenance) Class C**

Course Number: A-542-0012

Location: Naval School Command, Norfolk, VA.

Length: 2 weeks (60 hours).


Objectives: To provide enlisted personnel with the knowledge and skills involved in the maintenance of pay records.

Instruction: Lectures and practical exercises in the use of the calculator, computation of pay; items of pay and allowances; types of deductions and collections; and corrections, opening, closing, and transmitting of pay records.

Credit Recommendation: In the vocational certificate category, 1 semester hour in clerical procedures (2/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in clerical procedures (2/74).

**NV-1401-0002**

**Disbursing Clerks, Class A**

Course Number: A-542-0011

Location: Naval Schools Command, Newport, RI.; Naval Schools, Supply, San Diego, CA.

Length: 9–11 weeks (330–360 hours).

Exhibit Dates: 12/59–12/68.

Objectives: To train enlisted personnel to perform the duties of naval disbursing clerks.

Instruction: Lectures and practical experiences in basic naval funds disbursement procedures; accounting; pay and allowances; income tax; savings deposits; vouchers; public funds; and typing and correspondence.

Credit Recommendation: In the vocational certificate category, 6 semester hours in clerical procedures (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in clerical finance (2/74); in the upper-division baccalaureate category, credit in typing on the basis of instructional examination (12/68).

**NV-1401-0003**

**Automated Supply and Accounting Systems Afloat (AN)/UYK-5(V)**

Course Number: A-18B-0019.

Location: Supply Corps School, Athens, GA.

Length: 2 weeks (65 hours).

Exhibit Dates: 7/72–Present.

Objectives: To train supply officers in automated supply systems afloat.

Instruction: Lectures and practical exercises in automated supply systems afloat, including systems operations; automatic data processing functions not related to supply and accounting, and resources utilization.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

**NV-1402-0001**

**Data Processing Technician, Class C: Systems Analysis and Design (DATA PROCESSING SYSTEMS ANALYSIS, CLASS C)**

Course Number: A-532-0019; A-532-019.

Location: Service School Command, San Diego, CA.

Length: 4 weeks (110–114 hours).

Exhibit Dates: 12/68–Present.

Objectives: To provide experienced programmers with basic training in systems analysis and design.

Instruction: Lectures and practical experience in data processing systems analysis, including data communication concepts; data gathering and data analysis; system requirements specification; system design fundamentals; technical and economic feasibility study; manpower planning; systems operation; conversion, evaluation, and maintenance planning; and program evaluation and review techniques.

Credit Recommendation: In the vocational certificate category, 2 semester hours in business systems analysis (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in business systems analysis (2/74); in the upper-division baccalaureate category, 2 semester hours in business systems analysis (2/74).

**NV-1402-0002**

1. AN/USQ-20 BASIC PROGRAMMING

2. NTDS BASIC PROGRAMMER (OPERATIONAL)

Course Number: K-2G-1020.

Location: Fleet Anti-Air Warfare Training Center, San Diego, CA.

Length: Version 1: 6 weeks (233 hours).


Objectives: To teach military or civilian personnel with previous programming experience the use of the CS-1 compiler system language.

Instruction: Lectures and practical exercises on principles and concepts, programming techniques, and data design operations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computer programming (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 2 semester hours in computer programming (2/74).

**NV-1402-0004**

**NTDS Intermediate Programmer Course (CS-1)**

Course Number: K-2G-1026.

Location: Fleet Combat Directions Systems Training Center, San Diego, CA.

Length: 3 weeks (86–90 hours).

Exhibit Dates: 3/66–Present.

Objectives: To teach military or civilian personnel with previous programming experience the use of the CS-1 compiler system language.

Instruction: Lectures and practical exercises on principles and concepts, programming techniques, and data design operations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computer programming (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 2 semester hours in computer programming (2/74).

**NV-1404-0005**

**NTDS Data Utilization**

Course Number: J-2G-352.

Location: Fleet Combat Directions Systems Training Center Atlantic, Dam Neck, VA.

Length: 3 weeks (105 hours).

Exhibit Dates: 2/73–Present.

Objectives: To train personnel in the basic principles of programming and operating the NTDS unit computer.

Instruction: Practical application of principles of programming, basics of digital computers, flowcharting, unit computer assembler programming techniques.

Credit Recommendation: Version 1: In the vocational certificate category, 4 semester hours in computer programming (2/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 4 semester hours in computer programming (12/68).

**NV-1402-0006**

**NTDS Data Utilization (NTDS: Evaluator/Supervisor)**

Course Number: K-2G-1010.

Location: Fleet Combat Directions Training Center, San Diego, CA.

Length: 3–4 weeks (104–136 hours).

Exhibit Dates: 12/68–Present.

Objectives: To train personnel in the operation of the naval technical data system.

Credit Recommendation: No credit because of the limited technical nature of the course (2/74).
IBM SYSTEM 360 COMPUTER SYSTEM PROGRAMMING (COBOL LANGUAGE), CLASS C

Course Number: A-532-0015
Location: Data Processing Technician Class C School, San Diego, CA
Length: 4 weeks (102 hours)
Exhibit Dates: 7/71-Present
Objectives: To teach data processing technicians the concepts and techniques of coding programs in COBOL.

Instruction: Lectures and practical exercises in flow charting, design of programs, and debugging programs.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in computer programming (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74).

NV-1402-0011

DIGITAL FUNDAMENTALS (COMPUTER BASICS CLASS C ELECTRONICS)

Course Number: None
Location: Electronics Technician School, Great Lakes, IL
Length: 8 weeks (240 hours)
Exhibit Dates: 10/62-12/68
Objectives: To train personnel in computer basics.

Instruction: Lectures and practical exercises in digital, analog, and hybrid computer fundamentals and concepts, including fundamentals of digital computers and data processing techniques, number systems, programming, Boolean algebra, arithmetic operations, control, magnets, semiconductors, logic, analog computer fundamentals, analog components and mathematical applications, algebra, hybrid computer fundamentals, conversion techniques, and digital differential analyzer.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics, 2 in analog circuits (4/74); in the upper-division baccalaureate category, 6 semester hours in data processing principles, 2 in analog circuits (4/74); in the upper-division baccalaureate category, 6 semester hours in computing science (12/68).

NV-1402-0012

DIGITAL AND ANALOG COMPUTER FUNDAMENTALS (COMPUTER BASICS CLASS C ELECTRONICS)

Course Number: None
Location: Electronics Technician School, Great Lakes, IL
Length: 8 weeks (420 hours)
Exhibit Dates: 10/62-12/68
Objectives: To train personnel in computer basics.

Instruction: Lectures and practical exercises in digital, analog, and hybrid computer fundamentals and concepts, including fundamentals of digital computers and data processing techniques, number systems, programming, Boolean algebra, arithmetic operations, control, magnets, semiconductors, logic, analog computer fundamentals, analog components and mathematical applications, algebra, hybrid computer fundamentals, conversion techniques, and digital differential analyzer.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer programming (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74).

NV-1402-0013

DIGITAL, ANALOG, AND HYBRID COMPUTER FUNDAMENTALS (COMPUTER BASICS CLASS C ELECTRONICS)

Course Number: None
Location: Electronics Technician School, Great Lakes, IL
Length: 16 weeks (480 hours)
Exhibit Dates: 10/62-12/68
Objectives: To train personnel in computer basics.

Instruction: Lectures and practical exercises in digital, analog, and hybrid computer fundamentals and concepts, including fundamentals of digital computers and data processing techniques, number systems, programming, Boolean algebra, arithmetic operations, control, magnets, semiconductors, logic, analog computer fundamentals, analog components and mathematical applications, algebra, hybrid computer fundamentals, conversion techniques, and digital differential analyzer.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics, 2 in analog circuits (4/74); in the upper-division baccalaureate category, 6 semester hours in data processing principles, 2 in analog circuits (4/74); in the upper-division baccalaureate category, 6 semester hours in computing science (12/68).

NV-1402-0014

COMPUTER PROGRAMMING ORIENTATION

Course Number: K-2G-1021
Location: Fleet Anti-Air Warfare Training Center, San Diego, CA
Length: 4 weeks (120 hours)
Exhibit Dates: 10/65-12/68
Objectives: To teach military, civilian, and contractor personnel the basic principles of programming the NTDSS digital computer, the CS-1 compiling system, and the concepts of modular programming.

Instruction: Lectures on the basics of digital computer principles of programming, NTDSS digital computer; principles of operation and programming techniques; compiling language (CS-1); modular programming.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer programming (2/74); in the lower-division baccalaureate category, 3 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 3 semester hours in computer programming (2/74).

NV-1402-0015

BASIC PROGRAMMING ORIENTATION FOR MIDDLE MANAGEMENT

Course Number: K-532/0001
Location: Fleet Anti-Air Warfare Training Center, San Diego, CA
Length: 4 weeks (56 hours)
Exhibit Dates: 11/71-Present
Objectives: To train management personnel in the basic principles of digital computer programming in machine code, direct code, and source language, and in the operational characteristics of the NTDSS format computer.
Objectives: To train enlisted personnel and officers in the field of maintenance data analysis.

Instruction: Lectures on graphic presentations, maintenance data documentations, data extraction, algebra, time series, descriptive and inferential statistics, control charts, work measurement, linear correlation, and analytical projection.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in business statistics (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 3 semester hours in business statistics (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business statistics (2/74); in the upper-division baccalaureate category, 3 semester hours in business statistics (2/74); Version 2: In the vocational certificate category, 4 semester hours in business statistics (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in digital computer concepts (2/74); in the upper-division baccalaureate category, 2 semester hours in digital computer concepts (3/72).

NV-1402-0019

AN/USQ-20 MACHINE LANGUAGES PROGRAMMING

Course Number: K-532-0002

Location: Fleet Anti-Air Warfare Training Center, San Diego, CA

Length: 5 weeks (142 hours).

Objectives: To train military and civilian personnel to write, execute, and interpret computer programs at two levels: CP-6428 machine code instructions; CMS-2 direct code.

Instruction: Lectures and practical exercises in arithmetic of computers, programming techniques, machine instruction for CP-6428; CMS-2 direct codes; hardware; practical programming.

Credit Recommendation: In the vocational certificate category, 4 semester hours in computer programming (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 3 semester hours in computer programming (2/74).

NV-1402-0020

DD963 BASIC CIRCUIT CONCEPTS FOR GAS TURBINE CONTROLS, CLASS C1

Course Number: A-652-0134

Location: Service School Command, Great Lakes, IL

Length: 2 weeks (90 hours).

Objectives: To provide a basic understanding of analog devices and logic circuit operations for computer control systems.

Instruction: Major areas of instruction include external circuit analysis to identify analog-computer systems components, interpretation of basic logic circuit diagrams in terms of Boolean expressions and Veitch diagrams, testing and troubleshooting basic logic circuits and combinations.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in computer logic (9/77).

NV-1402-0021

BASIC PROGRAMMING CONCEPTS, CLASS C

Course Number: A-532-0012

Objectives: To train enlisted personnel and officers in the field of maintenance data analysis.

Instruction: Lectures on graphic presentations, maintenance data documentations, data extraction, algebra, time series, descriptive and inferential statistics, control charts, work measurement, linear correlation, and analytical projection.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in business statistics (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 3 semester hours in business statistics (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in business statistics (2/74); in the upper-division baccalaureate category, 3 semester hours in business statistics (2/74); Version 2: In the vocational certificate category, 4 semester hours in business statistics (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in digital computer concepts (2/74); in the upper-division baccalaureate category, 2 semester hours in digital computer concepts (3/72).

NV-1402-0024

CENTRAL NAVIGATION COMPUTER (PROCESSOR II)

Course Number: A-193-0248; F-193-090

Location: FBM Submarine Training Center, Charleston, SC

Length: 3 weeks (90 hours).

Objectives: To train navigation electronics technicians to perform advanced maintenance on the CP-898 (CNC) computer.

Instruction: Lectures and practical exercises in circuitry timing, troubleshooting, and logic analysis on CP-898 (CNC) computer ship evaluation, breakpoint feature, keyboard/keyset communication, monitor clock memory lockout and computer mode features, interrupts, jumps, program faults.
COURSE EXHIBITS

shift instructions, repeat, multiply, divide, square root, and floating-point instructions. Course is highly specialized; however, many of the concepts studied also apply to commercial computers.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computers or computer science (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computers or computer science (3/74); in the upper-division baccalaureate category, 2 semester hours in computer or computer science (3/74).

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NV-1402-0025
CENTRAL NAVIGATION COMPUTER (PROCESSOR I)

Course Number: A-159-0247, F-193-089
Location: FBM Submarine Training Center, Charleston, SC
Length: 2 weeks (60 hours)
Exhibit Dates: 11/72-Present
Objectives: To train navigation electronics technicians to maintain and repair central navigation computer.

Instruction: Lectures and practical exercises in functional operation and circuit analysis of computer power circuitry, functional operation and logic analysis of timing and control, main memory, and NDRO memory circuits; timing considerations and logic analysis of processor A, indirect sequences, and all read-and-store class instructions. Course is highly specialized; knowledge acquired by student is applicable only to special-purpose military computers.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

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NV-1402-0026
CENTRAL NAVIGATION COMPUTER (INPUT/OUTPUT)

Course Number: A-193-0249; F-193-091
Location: FBM Submarine Training Center, Charleston, SC
Length: 3 weeks (90 hours)
Exhibit Dates: 11/72-Present
Objectives: To train navigation electronics technicians to maintain CP-890/ U-14 navigation computers.

Instruction: Lectures and practical exercises in functions of the CNC input/output controllers and the function of all input/output circuits; essential events and their timing relationships for all input/output operations; and logic circuits for instruction executions. Course is highly specialized; however, much of the material is applicable to commercial computers.

Credit Recommendation: In the vocational certificate category, 4 semester hours in computers or computer science (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computers or computer science (3/74); in the upper-division baccalaureate category, 2 semester hours in computers or computer science (3/74).

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NV-1402-0027
DIGITAL PRINCIPLES AND TECHNIQUES (ELECTRONICS, TECHNICIAN, CLASS C1)

Course Number: A-100-0019, A-100-0021
Location: Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA
Length: 5 weeks (168-200 hours)
Exhibit Dates: 7/70-Present
Objectives: To provide enlisted personnel with training in digital computer fundamentals.

Instruction: Lectures and practical exercises in computer block diagrams, number systems, binary, octal, and hexadecimal arithmetic; Boolean algebra; logic equation simplification; digital counters and registers; input/output devices; storage devices; and Bi-Train-Six programming.

Credit Recommendation: In the vocational certificate category, 2 semester hours in digital principles and techniques and 1 in logic laboratory (11/72); in the lower-division baccalaureate/associate degree category, 2 semester hours in digital principles and techniques and 1 in logic laboratory (11/77).

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NV-1402-0028
AN/UYYK-5(V) (3-M SYSTEM) OPERATOR, CLASS C

Course Number: A-531-011
Location: Naval Training Center, San Diego, CA
Length: 3-6 weeks (90-180 hours)
Exhibit Dates: 12/68-Present
Objectives: To train data processing technicians to operate AN/UYYK-5(V) computer systems.

Instruction: Lectures and practical exercises in computer concepts, number systems, machine language instruction, system operation, and maintenance, procedures.

Credit Recommendation: In the vocational certificate category, credit in computer operation on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer operation on the basis of institutional examination (12/68).

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NV-1402-0029
IOIC MAINTENANCE OFFICER

Course Number: D-7E-010
Location: Reconnaissance Attack Squadron Three, Albany, GA
Length: 6 weeks (240 hours)
Exhibit Dates: 5/69-Present
Objectives: To train warrant officers who have backgrounds in digital data systems and electronics in processing to operate and administer the Integrated Operational Intelligence Center (IOIC) and to supervise the maintenance of associated equipment.

Instruction: Lectures and practical exercises in the function, operation, and supervision of the Integrated Operational Intelligence Center, including IOIC systems cross-training, maintenance administration, basic computer concepts, software and basic EDP equipment operation, functions of data systems technicians, and field operational briefings.

Credit Recommendation: In the vocational certificate category, 1 semester hour in data processing (4/74); in the lower-division baccalaureate/associate degree category, credit in data processing on the basis of institutional examination (4/74).

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NV-1402-0030
UNIVAC 1218/1418/190-CP-789/UYYK-5(V) SYSTEM PROGRAMMING COURSE (COBOL LANGUAGE), CLASS C

Course Number: A-532-0014; A-7E-0014
Location: Data Processing Technician, Class C Schofield, San Diego, CA
Length: 4 weeks (96 hours)
Exhibit Dates: 6/71-Present
Objectives: To train data processing technicians in program coding concepts and techniques in COBOL for the AN/UYK-5(V) computer system.

Instruction: Lectures and practical exercises in COBOL history, basic elements, program structure and divisions, verbs, and tape programming; data descriptions; procedural verbs; table handling; special tape functions; and programming applications.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer programming (4/74); in the upper-division baccalaureate category, 2 semester hours in computer programming (4/74).

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NV-1402-0031
PROGRAMMING, NTDs OPERATIONAL (OFFICER AND ENLISTED)

Course Number: J-532-0375; J-7E-3752
Location: Fleet Anti-Air Warfare Training Center, Dam Neck, VA
Length: 3 weeks (105 hours)
Exhibit Dates: 10/72-Present
Objectives: To train experienced programmers in modular programming techniques.

Instruction: Lectures in data design, message handling, automatic scaling, coding rules and documentation, and practical exercises in data design setups, programming, debugging techniques, and module documenting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in computer programming (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in computer programming (4/74); in the upper-division baccalaureate category, 1 semester hour in computer programming (4/74).

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NV-1402-0032
NTDS EVALUATOR/SUPERVISOR (USER)

Course Number: Not available
Location: Air Technical Training Center, glync, GA
Length: 3 weeks (112 hours)
Exhibit Dates: 5/71-Present
Objectives: To train officer and enlisted personnel in Naval Tactical Data System (NTDS) operations.

Instruction: Lectures and laboratories in NTDS familiarization; digital computers and programming; system equipment operation; input functions and user functions; mockup training; simulation exercises in input, user, and mock warfare; and related systems and functions, including on-line and off-line programming and airborne tactical data system operation.
NV-1402-0035  
**Storage and Retrieval DP Operator and Programmer**  
(OIOC Storage and Retrieval Operator/Officer Course)  

Course Number: D-150-017.  
Location: Naval Intelligence Processing System Training Facility, Albany, GA  
Reconnaissance Attack Squadron Three, Albany, GA  
Length: 10/411 weeks (385-400 hours).  
Exhibit Dates: 7/69-Present.  

**Objectives:** To train data processing technicians in data base storage, retrieval, and associated equipment utilization.  

**Instruction:** Lectures and practical exercises in computer programs and control panel wiring, electronic data processing equipment operation, electrical accounting machines, file maintenance procedures, basic intelligence and data base, CSDS operations and programming, photographic interpretation and equipment operation, NAR programs, and information retrieval and library maintenance support system operation.  

**Credit Recommendation:** In the upper-division baccalaureate/associate degree category, 1 semester hour in computer principles (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer principles (12/68).

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**NV-1402-0034**  
**Data Base Management—LCC**  

1. **AMPHIBIOUS SUPPORT INFORMATION SYSTEM LANGUAGE—OPERATOR**  
   (LCC: Amphibious Support Information System Operator)  
   (Course Number: Version 1: K-221-0042; K-000-0042. Version 2: K-221-1012.)  
   Location: Fleet Anti-Air Warfare Training Center, San Diego, CA.  
   Length: Version 1: 2 weeks (62 hours).  
   Version 2: 3 weeks (88 hours).  
   Exhibit Dates: Version 1: 2/75-Present.  
   **Objectives:** To train personnel to operate and supervise data base information systems.  
   **Instruction:** Lectures in amphibious support information system operation; block diagram analysis, data base generation, message structure, QUEST language, command and control mockup demonstrations, and system control operator functions.  
   **Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in data processing principles (6/77). Version 2: In the vocational certificate category, 1 semester hour in data processing principles (4/74), in the lower-division baccalaureate/associate degree category, 1 semester hour in data processing principles (4/74); in the upper-division baccalaureate category, 1 semester hour in data processing principles (4/74).

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**NV-1402-0036**  
**Airborne Tactical Data System Operations, Class O**  

Course Number: Not available.  
Location: Naval Air Technical Training Center, Glynn, GA.  
Length: 12-19 weeks (480-744 hours).  
Exhibit Dates: 10/65-Present.  

**Objectives:** To train officers to operate the airborne tactical data system.  

**Instruction:** Lectures and practical exercises in the operation of the airborne tactical data system, including data link systems, aircraft systems, system sensors, operational equipment, and airborne training.  

**Credit Recommendation:** No credit because of the military nature of the course (4/74).
ment, GDS operations and programming; and ITIC management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in data processing principles (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in data processing principles (4/74); in the upper-division baccalaureate category, 3 semester hours in data processing principles (4/74).

NY-1402-0044
RA-SC AN/ASB-12 VERTAN AND DIGITAL TEST EQUIPMENT INTERMEDIATE MAINTENANCE
(A-5A RA-SC AN/ASB-12 VERTAN AND DIGITAL TEST EQUIPMENT) [Course Number: C-111-3742]
Location: Air Maintenance Training Detachment, Albany, GA; Air Maintenance Training Detachment, Sanford, FL.
Length: 10 weeks (400 hours).
Exhibit Dates: 7/74-Present.
Objectives: To train enlisted personnel with previous technical training to modify, troubleshoot, and maintain the digital computer portion of the AN/ASB-12 bomb direct selecting equipment.

Instruction: Lectures and practical exercises in the maintenance of the AN/ASB-12 vertan and digital test equipment, including digital techniques, numbering systems, digital logic circuits, Boolean algebra, Verizon computer, universal section, shop test equipment familiarization, general-purpose section, DDA section, Verizon inputs/output, digital test equipment, and Verizon computer.

Credit Recommendation: In the vocational certificate category, 8 semester hours in digital computer principles (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in digital computer principles (6/74); in the upper-division baccalaureate category, 3 semester hours in digital computer principles (12/68).

NY-1402-0045
STOREKEEPER, CLASS C (UNIFORMED) [APPARATUS AND AUTOMATED PROCEDURES FOR TENDERS AND REPAIR SHIPS]
Course Number: A-551-0050; A-551-0051; A-551-0052; A-551-0053.
Location: Storekeeper Class C School, Newburgh, NY; Storekeeper Class C School, Port Hueneme, CA; Storekeeper Class C School, San Diego, CA; Storekeeper Class C School, Norfolk, VA.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/71-Present.
Objectives: To train enlisted personnel to operate the Uniform U-1500 computer supply and fiscal system.

Instruction: Lectures and practical exercises in Uniform U-1500 computer supply and fiscal system operation, including tape and card files, transactions and record document identifiers, card form identification, data processing, reporting and returns, and return analysis.

Credit Recommendation: No credit because of the limited technical nature of the course (7/71).

NY-1402-0046
AN/UYK-7 CMS-2 (Y) COMPILER LANGUAGE PROGRAMMING
Course Number: K-2E-0043; K-532-0043.
Location: Fleet Combat Direction Systems Training Center, San Diego, CA.
Length: 6 weeks (173 hours).
Exhibit Dates: 2/74-Present.
Objectives: To train students to write, execute, and interpret computer programs using the AN/UYK-7 CMS-2 programming language.

Instruction: Lectures, homework, and practical exercises in introduction to computers and programming; AN/UYK-7 hardware familiarization; AN/UYK-7 machining code, direct code, and the Ultra assembler language; and AN/UYK-7 CMS-2 compiler language.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in computer programming (6/75).

NY-1403-0001
NEUROPSYCHIATRIC CLERICAL TECHNICIAN
Course Number: None.
Location: Naval Hospital, Bethesda, MD.
Length: 16 weeks (640 hours).
Exhibit Dates: 1/62-12/68.
Objectives: To train enlisted personnel as neuropsychiatric clerical technicians.

Instruction: Lectures and practical exercises in neuropsychiatric terminology and nomenclature, special regulations, vital statistics, and consultation and clinical management.

Credit Recommendation: In the vocational certificate category, credit in medical record administration, social work, or hospital administration on the basis of institutional examination (7/74); in the lower-division baccalaureate/associate degree category, credit in medical record administration, social work or hospital administration on the basis of institutional examination (7/74); in the upper-division baccalaureate category, credit in medical record administration, social work, or hospital administration on the basis of institutional examination (7/74).

NY-1404-0001
POSTAL CLERK, CLASS A
Course Number: None.
Location: Service School Command, San Diego, CA; Service School Command, Bainbridge, MD.
Length: 3-5 weeks (90-150 hours).
Exhibit Dates: 9/62-Present.
Objectives: To provide enlisted personnel with the technical training necessary to perform duties in the Naval postal service.

Instruction: Lectures and practical exercises in typing, operational procedures, and on-the-job training in the operation of the Navy post office.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).
COMMUNICATIONS OFFICER (SHORE COURSE)
Course Number: Not available.
Location: Communication Officers School, Newport, RI.
Length: 8 weeks (246 hours).
Exhibit Dates: 7/57-12/68.
Objectives: To train officers in communications procedures.
Instruction: Lectures and practical exercises in communications procedures, including message preparation, message types and format, communications systems, electronic communications equipment, administrative procedures, broadcasting, circuits, watch requirements, special communications situations, cryptography, electronic warfare, cryptography and special codes, postal services, commercial communications, and security and censoring procedures in communications.
Credit Recommendation: No credit because of the limited technical nature of the course (12/68).

NAVAL AMPHIBIOUS COMMUNICATIONS
Course Number: H-4-C-22.5.
Location: Amphibious School, Coronado, CA.
Length: 2 weeks (48 hours).
Exhibit Dates: 3/57-12/68.
Objectives: To provide background and knowledge of amphibious operation.
Instruction: Lectures and practical exercises in amphibious operations including amphibious concepts and organization, administrative procedures, communication equipment and systems, and security.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

DYNALEC AUTOMATIC TELEPHONE SYSTEM MAINTENANCE, CLASS C1
Course Number: A-623-0047.
Location: Service School Command, Great Lakes, IL.
Length: 6 weeks (180 hours).
Exhibit Dates: 8/76-Present.
Objectives: To train telephone system technicians in the operation, adjustment, and maintenance of the 100 and 150 line automatic dial telephone system.
Instruction: Lectures in subsystems related to an automatic dial telephone system including automatic switchboards, crossbar switching, manual switchboards, and troubleshooting, and maintenance techniques for the telephone system.
Credit Recommendation: In the vocational certificate category, 2 semester hours in telephone system operation (9/77).

SHIP’S SERVICEMEN RECORDKEEPER
Course Number: A-823-0010; A-823-0001.
Location: Naval School, San Diego, CA; Naval School, Norfolk, VA.
Length: 3 weeks (90 hours).
Exhibit Dates: 12/71-Present.
Objectives: To train enlisted personnel to perform as ship’s store recordkeepers.
Instruction: Lectures on procurement and receipt of ship’s stores, stock, inventory control, and records and returns.
Credit Recommendation: No credit because of the limited nature of the course (2/74).

AVIATION STOREKEEPER, CLASS A
Course Number: C-551-2010.
Location: Air Technical Training Center, Memphis, TN; Air Technical Training Center, Jacksonville, FL.
Length: 10-11 weeks (384-440 hours).
Exhibit Dates: 10/57-6/77.
Objectives: To train enlisted personnel to perform as aeronautical aviation storekeepers.
Instruction: Lectures and practical exercises in aeronautical aviation storekeeping, including operation of adding machines, calculators, and typewriters; finance and accounting procedures; materials handling and storage; correspondence, receipt and issue procedures; and item identification.
Credit Recommendation: In the vocational certificate category, 2 semester hours in typing, 2 in inventory supervision (6/74); in the lower division, baccalaureate/associate degree category, 2 semester hours in typing (6/74); in the lower division, baccalaureate/
NV-1405-0005
NAVY PURCHASE

Course Number: Not available.
Location: 'Bureau of Supplies and Accounts', Washington, DC.
Length: 4 weeks (114 hours).
Exhibit Dates: 2/6-12/68.
Objectives: To train enlisted personnel to handle the duties of a purchaser of goods and services.

Instruction: Lectures in purchasing practices and procedure. Course includes formal advertising, negotiation (contract administration, office administration, and future trends in purchasing.

Credit Recommendation: In the vocational certificate category, 1 semester hour in purchasing (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in purchasing (6/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in materials management (6/74).

NV-1405-0008
MARINE AVIATION SUPPLY, CLASS C

Course Number: Not available.
Location: Version 1: Air Technical Training Center, Memphis, TN.
Version 2: Air Technical Training Center, Memphis, TN.
Version 3: Air Technical Training Center, Jacksonville, FL.

Length: Version 1: 10 weeks (1400 hours).
Version 2: 10 weeks (384 hours).
Version 3: 6 weeks (240 hours).
Exhibit Dates: Version 1: 8/70-Present.
Version 3: 10/57-10/65.

Objectives: To train enlisted personnel in aviation supply procedures.

Instruction: Lectures and practical exercises in aviation supply procedures, including correspondence, typing, material classification and cataloging, technical publications, allowance lists, requisitioning, stock records and transactions, supply organization, mechanized procedures, management reports, and procurement procedures.

Credit Recommendation: Version 1: In the vocational certificate category, 1 semester hour in typing; 3 in property accounting (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typing; 3 in property accounting (6/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in typing; 3 in property accounting (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typing; 3 in property accounting (6/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in typing; 3 in property accounting (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typing; 3 in property accounting (6/74).

NV-1405-0009
JOINT AVIATION SUPPLY AND MAINTENANCE
MATERIAL MANAGEMENT

Course Number: A-8B-0020.
Location: Supply Corps School, Athens, GA.
Length: 3 weeks (105 hours).
Exhibit Dates: 6/72-Present.

Objectives: To train commissioned officers in aviation material management.

Instruction: Lectures in supply and maintenance material management. Course includes fund accounting, stock control, storage, shipping, aviation fuels management, maintenance support, supply organization, and a general review of naval aviation.

Credit Recommendation: In the vocational certificate category, 1 semester hour in inventory management (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in inventory management (6/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in inventory management (6/74).

NV-1405-0010
AVIATION ORDNANCE OFFICERS
(MANAGEMENT), CLASS O
(AOM(O))

Course Number: Not available.
Location: Air Technical Training Center, Jacksonville, FL.
Length: 4 weeks (160 hours).
Exhibit Dates: 9/66-Present.

Objectives: To train limited-duty line, and aviation ordnance officers in ordnance management.

Instruction: Lectures and practical exercises in the duties of aviation ordnance officers, including aviation ordnance management, supply, standard Navy maintenance and material management system, safety and security, procurement and control management, and maintenance data collection and processing.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in supply management (12/68).

NV-1405-0011
SUPPLY ASHORE REFRESHER

Course Number: A-8B-0025.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 7/71-Present.

Objectives: To train reserve officers to operate and manage supply activities ashore.

Instruction: Lectures and practical exercises in the operation and management of supply activities ashore. Course includes supply ashore operations and management, supply control and distribution, and distribution management within the military system.

Credit Recommendation: No credit because of the military nature of the course (7/74).

NV1405-0013

1. STOREKEEPERS (REPAIR PARTS), CLASS C
2. STOREKEEPERS (REPAIR PARTS), CLASS C (SUPPLY STOREKEEPERS (REPAIR PARTS), CLASS C-1)

Course Number: Not available.
Location: Storekeepers Class C School, Newport, RI.
Length: Version 1: 3 weeks (90 hours).
Version 2: 5 weeks (150 hours).
Exhibit Dates: Version 1: 12/66-12/68.

Objectives: To train enlisted personnel to be storekeepers.

Instruction: Lectures and practical exercises in storekeeping, including appropriations, accounting, supplies procurement, storage, inventory control, supply systems, yards and docks supply system, electronics supply system, and introduction...
to ship's machinery and repair parts supply system.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74). Version 2: In the upper-division baccalaureate category, 3 semester hours in supply management and 1 in personnel administration (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in supply management and 1 in personnel administration (7/74); in the upper-division baccalaureate category, 3 semester hours in supply management and 2 in personnel administration (12/68).

NV-1405-0016

BASIC QUALIFICATION COURSE OF THE SUPPLY CORPS

Course Number: A-88-0012.

Location: Supply Corps School, Athens, GA.

Length: 10 weeks (350 hours).

Exhibit Dates: 8/67-12/74.

Objectives: To prepare newly commissioned women officers to assume supply and disbursing duties during a period of mobilization.

Instruction: Lectures and practical exercises in supply management, personnel management, food service, retail operations, disbursing, and computer operations.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in supply management (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in supply management and 1 in personnel administration (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in supply management and 1 in personnel administration (7/74). Version 2: In the vocational certificate category, 3 semester hours in supply management, personnel management, food service, retail operations, disbursing, and computer operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours in personnel administration (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in supply management and 1 in personnel administration (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in supply management and 1 in personnel administration (7/74); in the upper-division baccalaureate category, 3 semester hours in supply management and 2 in personnel administration (12/68).

NV-1405-0017

STOREKEEPER SUPPLY ABOARD

COURSE Number: A-551-0010; A-551-0011

Location: School Command, Norfolk, VA; School Command, Newport, RI; School Command, San Diego, CA.

Length: 5 weeks (150 hours).

Exhibit Dates: 6/64-6/65.

Objectives: To train selected enlisted personnel as storekeepers aboard ship.

Instruction: Training in the use of technical and administrative publications, catalogs, and allowance lists; acquisition, control, and issue of stores, financial accounting, stores storage and security requirements determination, stores management organization, pricing and profit policies, inventory procedures, food service, sales, controls, and records.

Credit Recommendation: In the vocational certificate category, 2 semester hours in supply management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74).

NV-1405-0018

CARRIER GASOLINE AND INERT GAS SYSTEMS

COURSE Number: Not available.

Location: Air Material Center, Philadelphia, PA.

Length: 6 weeks (240 hours).

Exhibit Dates: 9/56-12/68.

Objectives: To train personnel in the operation and maintenance of carrier gasoline and inert gas systems.

Instruction: Lectures and practical exercises in carrier gas systems maintenance and operation; carrier inert gas system operation and maintenance; high-capacity aviation fuel system operation and maintenance. Course covers receiving and dispensing bulk quantities of liquid and gaseous materials; measuring liquid flow; and operating principles of inert gas storage systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in materials handling (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in materials handling (7/74); in the upper-division baccalaureate category, 1 semester hour in materials handling (7/74).

NV-1406-0001

INSTRUCTOR TRAINING, CLASS C

INSTRUCTOR TRAINING, CLASS C

Instructor: Supply Corps School, Athens, GA.

Credit Recommendation: In the vocational certificate category, 4 semester hours in instructional methods (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in instructional methods (7/74); in the upper-division baccalaureate category, 2 semester hours in instructional methods (12/68).

NV-1406-0002

TECHNICAL TRAINING, CLASS A

Technical: Air Technical Training Center, Memphis, TN.

Length: 14 weeks (560 hours).

Exhibit Dates: 6/56-12/68.

Objectives: To train enlisted personnel to teach basic physics and electricity.

Instruction: Lectures and practical experience in the fundamentals of physics and electricity, special electrical devices, basic equipment, operational procedures for instrument flight, basic teaching principles, and supervised practice teaching.

Credit Recommendation: In the vocational certificate category, 3 semester hours in instrumental methods (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in instrumental methods (7/74); in the upper-division baccalaureate category, 2 semester hours in instructional methods, and credit in electricity on the basis of institutional examination (12/68).
COURSES EXHIBITS

1-887

NY-1406-0003
Academic Instructor Training.
Course Number: C-570-2010.
Location: Naval Air Technical Training Center, Millington, Memphis, TN.
Length: 3 weeks (104 hours).
Objectives: To provide enlisted personnel with a working knowledge of the basic principles of program writing.
Instruction: Lectures and laboratory experiences in basic principles of program writing, learning objectives, the program instructional process, editing, and supervised program writing.
Credit Recommendation: In the vocational certificate category, 4 semester hours in programmed instruction techniques (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in instruction techniques (12/68).

NY-1406-0004
1. Instructor, Class C (Career Information and Counseling).
2. Personnelman, Class C (Career Information and Counseling).
Course Number: Version 1: A-012-0011; A-500-010; A-500-011; A-500-012.
Location: Naval School, San Diego, CA; Naval School, Norfolk, VA.
Length: 3 weeks (90 hours).
Objectives: To prepare officers to perform career counseling.
Instruction: Lectures in the basic principles of personnel classification, 2 semester hours in counseling and personnel classification (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in counseling and personnel classification (1/74); in the upper-division baccalaureate degree category, 2 semester hours in counseling and personnel classification (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in counseling and personnel classification (1/74); in the upper-division baccalaureate degree category, 2 semester hours in counseling and personnel classification (1/74); in the upper-division baccalaureate degree category, 2 semester hours in counseling and personnel classification (1/74); in the upper-division baccalaureate category, 2 semester hours in instruction techniques (12/68).
Credit Recommendation: In the vocational certificate category, 2 semester hours in counseling and personnel classification (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in counseling and personnel classification (1/74); in the upper-division baccalaureate degree category, 2 semester hours in counseling and personnel classification (1/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in counseling and personnel classification (1/74); in the upper-division baccalaureate degree category, 2 semester hours in counseling and personnel classification (1/74); in the upper-division baccalaureate category, 2 semester hours in instruction techniques (12/68).

NY-1406-0005
Institutional Programs (Class C).
Course Number: C-570-2010.
Location: Naval Air Technical Training Center, Millington, Memphis, TN.
Length: 3 weeks (104 hours).
Objectives: To provide enlisted personnel with a working knowledge of the basic principles of program writing.
Instruction: Lectures and laboratory experiences in basic principles of program writing, learning objectives, the program instructional process, editing, and supervised program writing.
Credit Recommendation: In the vocational certificate category, 3 semester hours in programmed instruction techniques (1/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in programmed instruction techniques (12/68).

NY-1406-0006
Programmed Instruction Writer (Programmed Instruction Techniques).
Course Number: Version 1: A-012-0036; A-570-0014; A-570-0015; A-570-0016.
Location: Naval Training School, Great Lakes, IL; Naval Training School, San Diego, CA; Naval Training School, Norfolk, VA.
Length: 3 weeks (90-120 hours).
Objectives: To train military and civilian personnel in the development and use of programmed instructional materials.
Instruction: Lectures in the basic principles of programmed instruction, task analysis, developing and writing training objectives, writing programs, and editing and reviewing.
Credit Recommendation: In the vocational certificate category, 3 semester hours in programmed instruction techniques (1/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in programmed instruction techniques (1/74); in the upper-division baccalaureate category, 4 semester hours in instruction techniques (12/69).

NY-1406-0007
Television Instructors.
Course Number: A-012-0025.
Location: Naval School, Washington, DC.
Length: 2 weeks (80 hours).
Objectives: To train instructors in the basic principles of television teaching.
Instruction: Lectures in application and contribution of closed-circuit television, television systems and characteristics, equipment, and personnel techniques in television teaching and preparation and demonstration of practice television lessons.
Credit Recommendation: In the vocational certificate category, 2 semester hours in teaching (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in teaching (2/74); in the upper-division baccalaureate category, 4 semester hours in teaching (12/68).

NY-1406-0008
Instructors, Class C-1 (Instructor Basic).
(School Administration Course G).
Location: Instructor Training School, Newport, RI; Instructor Training School, Great Lakes, IL; Naval Training School, San Diego, CA; Instructor Training School, New London, CT; Instructor Training School, Norfolk, VA.
Length: Version 1: 3-5 weeks (100-150 hours). Version 2: 4 weeks (120 hours).
Objectives: To train enlisted personnel as instructors.
Instruction: Lectures in counseling, methods and techniques of instruction, training aids, lesson planning, test construction, evaluation of students, and practice teaching under simulated conditions.
Credit Recommendation: Version 1: In the upper-division baccalaureate category, 4 semester hours in instructional methods (1/74); Version 2: In the vocational certificate category, 4 semester hours in instructional methods (1/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in instructional methods (1/74); in the upper-division baccalaureate category, 2 semester hours in instructional methods (12/68).

NY-1406-0010
Recruit Procurement, Class C.
Location: Personnel Men, Class C School, Bainbridge, MD; Personnel Men, Class C School, San Diego, CA.
Objectives: To train selected noncommissioned officers for assignment to general recruiting duty.
Instruction: Lectures in administrative procedures, recruiting directives, techniques, methods, and approaches; interviewing and public speaking; fundamentals of typewriting; and techniques of fingerprinting.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in public speaking and additional credit in typing on the basis of institutional examination (12/75). Version 2: In the vocational certificate category, 2 semester hours in typing (12/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in typing (12/74); in the upper-division baccalaureate category, credit in verbal communication on the basis of institutional examination (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in public speaking; in personnel procurement (2/74); in the upper-division baccalaureate category, credit in oral and written communication on the basis of institutional examination (12/68).

NY-1406-0011
Supervision and Management, Class C.
Course Number: C-012-2011.
Location: Naval Air Technical Training Center, Memphis, TN.
Length: 2 weeks (80 hours).
Objectives: To provide training supervisors with basic instruction in the principles and techniques of supervision and in the methods used to improve and evaluate training and instruction.
Instruction: Lectures in the basic principles and techniques of supervision and in basic instruction-evaluation methods, Including a survey of learning processes, pro-
grammed instruction, conference leadership, fundamentals of instructional supervision, management functions, and observation and counseling of trainees.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 1 semester hour in training or supervision (2/74); in the upper-division baccalaureate category, 1 semester hour in training or supervision (2/74).

**NV-1406-0012**

1. MANAGEMENT ENGINEERING (FLEET WORK STUDY)

**Course Number:** S-500-0029; A-500-029; A-7C-015.

**Location:** Manpower and Material Analysis Center, Atlantic, Norfolk, VA.

**Length:** Version 1: 6 weeks (256 hours). Version 2: 6 weeks (173 hours).


**Objectives:** To train officer, enlisted, and civilian personnel in method study and work measurement.

**Instruction:** Lectures and practical exercises on method study and work measurement, including introduction to work and method study, progress charting, introduction to the critical examination sheet, part and network scheduling, operational sequence diagrams, and work measurement; time study; rating; activity sampling; synthesis; data and analytical estimating; multiple activity charting, and methods time measurement.

**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in work study analysis (6/75). Version 2: In the vocational certificate category, 3 semester hours in work study analysis (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in work study analysis (6/74); in the upper-division baccalaureate category, 3 semester hours in work study analysis (6/74).

**NV-1406-0017**

**SCHOOL ADMINISTRATION, COURSE G**

**Course Number:** A-7B-0010; A-7B-0011; A-7B-0012.

**Location:** Instructor's, Class C-1 School, Great Lakes, IL; Instructor's, Class C-1 School, San Diego, CA; Instructor's, Class C-1 School, Norfolk, VA.

**Length:** 2 weeks (54 hours).

**Exhibit Dates:** 7/70-Present.

**Objectives:** To train Navy School administrators and/or prospective administrators in the principles and procedures of school management, supervision, and evaluation.

**Instruction:** Lectures and practical exercises in the principles and procedures of school administration, including group guidance and individual guidance and counseling.

**Credit Recommendation:** In the vocational certificate category, 1 semester hour in educational methods (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in educational methods (7/74); in the upper-division baccalaureate category, 1 semester hour in educational methods (7/74).

**NV-1406-0018**

1. INTERVIEWING AND CLASSIFICATION

2. PERSONNELMAN, CLASS C-1.

**INTERVIEWING AND CLASSIFICATION**

**Course Number:** A-500-0013.

**Location:** Personnelman Class C School, San Diego, CA.

**Length:** Version 1: 6 weeks (240 hours). Version 2: 8-10 weeks (240 hours).


**Objectives:** To provide enlisted naval personnel with the technical knowledge required to perform duties as job classifiers and interviewers.

**Instruction:** Course covers vocational counseling and testing, survey of occupational titles, recording work experience, public speaking, and interviewing techniques.

**Credit Recommendation:** Version 1: In the vocational certificate category, 3 semester hours in job evaluation (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in job evaluation (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in job evaluation (7/74); in the upper-division baccalaureate category, 3 semester hours in personnel classification (12/68).

**NV-1407-0001**

**YEOMAN SCHOOL, CLASS B**

**(CLASS B YEOMAN SCHOOL)**

**Course Number:** None.

**Location:** Service Schools Command, Bainbridge, MD; Service Schools Command, San Diego, CA.

**Length:** 13-14 weeks (390-420 hours).

**Exhibit Dates:** 9/56-12/68.

**Objectives:** To train enlisted personnel to meet the professional qualifications for advancement to yeoman first class and chief yeoman.

**Credit Recommendation:** No credit because of the limited technical nature of the course (7/74).

**NV-1407-0002**

**LEGAL CLERK AND COURT REPORTING**

**Course Number:** A-512-010.

**Location:** Naval Justice School, Newport, RI.

**Length:** 5-7 weeks (170-239 hours).

**Exhibit Dates:** 1/69-Present.

**Objectives:** To provide enlisted personnel with training in court reporting and legal clerkship.

**Instruction:** Practical experience in military justice documentation and recording, closed-microphone court reporting, and transcription.

**Credit Recommendation:** No credit because of the military nature of the course (3/74).

**NV-1407-0003**

**STENOGRAPHY, CLASS C**

**Course Number:** Not available.

**Location:** Yeoman Class C School, Bainbridge, MD.

**Length:** 6 weeks (210 hours).

**Exhibit Dates:** 1/61-12/68.

**Objectives:** To train petty officers in high-speed shorthand and touch typing.

**Instruction:** Lectures and practical exercises in stenography and typewriting, including vocabulary and speed exercises in Gregg shorthand, high-speed dictation, oral and written transcription, oral reporting equipment, mechanics of English, and typing.

**Credit Recommendation:** In the vocational certificate category, 6 semester hours in stenography and typing (7/74); in the upper-division baccalaureate category, credit in stenography and typing on the basis of institutional examination (12/68).

**NV-1408-0001**

**DISBURSING CLERK, CLASS C (FINANCIAL RETURNS)**

**Course Number:** A-542-0014.

**Location:** Naval School's Command, Norfolk, VA.

**Length:** 2 weeks (60 hours).

**Exhibit Dates:** 11/71-Present.

**Objectives:** To train rated and nonrated disbursing clerks to prepare Navy and DoD reports and financial returns.

**Instruction:** Lectures and practical exercises in the preparation of collection and disbursement vouchers; reports of disbursement and collections; foreign currency reports; and deposit schedules.

**Credit Recommendation:** No credit because of the limited technical nature of the course (2/74).

**NV-1408-0002**

**DISBURSING CLERK, CLASS C (TRAVEL PAYMENTS)**

**Course Number:** A-542-0013.
COURSE EXHIBITS

NV-1408-0003
DEFENSE MANAGEMENT SYSTEMS
Course Number: P-00-3306.
Location: Naval Postgraduate School, Monterey, CA.
Length: 4 weeks (105 hours).
Exhibit Dates: 1/70-12/73.
Objectives: To train officers with an introduction to the basic principles of management.
Instruction: Lectures in resource management, program budgeting, management accounting, systems analysis, marginal analysis, and cost effectiveness; emphasis placed on the analytical aspects of management, including required courses, systems analyses, cost effectiveness, and marginal analysis.
Credit Recommendation: In the vocational certificate category, 3 semester hours in management (12/68).

NV-1408-0004
STATION MANAGEMENT SYSTEMS
Course Number: None.
Location: Naval Postgraduate School, Monterey, CA.
Length: 4 weeks (84 hours).
Exhibit Dates: 1/70-12/73.
Objectives: To train officers in the principles and methods of shore station management.
Instruction: Lectures in general management theory, qualitative reasoning, statistics, economics, systems analysis and cost analysis, and resources management systems implementation and operation.
Credit Recommendation: In the vocational certificate category, 2 semester hours in principles of management (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in principles of management (2/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in principles of management (12/68).

NV-1408-0005
DATA ANALYSIS (SHIP'S 3-M SYSTEM)
CLASS C
Course Number: A-500-0017.
Location: Naval Schools Command, Norfolk, VA.
Length: 5 weeks (173 hours).
Exhibit Dates: 2/72-12/73.
Objectives: To train officers and petty officers to perform statistical analysis of machine generated data and to present their findings in a report designed to facilitate management decision making.
Instruction: Lectures in statistical analysis and its application to management organizations, including frequency, probability, and sampling distributions; hypothesis testing; dispersion, trend analysis, and linear correlation and regression.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel administration (2/74); in the upper-division baccalaureate category, 1 semester hour in personnel administration (2/74).

NV-1408-0006
GROUP VIII ER/E9 ADVANCED MANAGEMENT
(SUBJECT VIII E-E/7 MANAGEMENT)
Course Number: A-710-0001, A-710-0002.
Location: Civil Engineer Corps Officers School, Fort Hueneme, CA.
Length: 6 weeks (167 hours).
Exhibit Dates: 7/72-6/74.
Objectives: To provide officers with an introduction to management principles, including facilities, utilities, personnel and housing; construction and labor management; planning, scheduling and networking; military budgeting activities, and field exercises in construction project planning.
Credit Recommendation: In the upper-division baccalaureate/associate degree category, 3 semester hours in construction management or technology (3/76).

NV-1408-0007
MANAGEMENT AND SUPERVISION OF NAVAL PERSONNEL
Location: Fleet Training Center, Norfolk, VA; Service School Command, Great Lakes, IL; Service School Command, San Diego, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 3/72-1/73.
Objectives: To provide petty officers and junior officers with a knowledge of modern management methods.
Instruction: Lectures on management of communications processes, motivation and human behavior, personnel management, and leadership.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of supervision or management (6/75).

NV-1408-0008
INSTRUCTOR, CLASS C-1 ADMINISTRATION AND COUNSELING
Course Number: A-7C-013; A-7Q-014.
Location: Instructor Class C-1 School, Norfolk, VA; Instructor Class C-1 School, San Diego, CA.
Length: 2 weeks (40 hours).
Exhibit Dates: 7/71-1/73.
Objectives: To train officers to manage shipboard operations.
Instruction: Lectures in human relations, counseling techniques, personnel management, personal financial management, drug abuse counseling, and responsibilities of division management personnel.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel administration (2/74); in the upper-division baccalaureate category, 1 semester hour in personnel administration (2/74).

NV-1408-0011
WARRANT OFFICER INDOCTRINATION
(SUBJECT Warrant Officer Indoc..trination)
Course Number: A-00-0047.
Location: Officer Indoctrination School, Newport, RI.
Length: 5-7 weeks (163-245 hours).
Exhibit Dates: 2/72-12/73.
Objectives: To instruct the newly appointed, surface-designated warrant officer in the responsibilities of his role as an officer.
Instruction: Lectures and practical exercises in the duties of a surface-designated warrant officer, including military law, management unit objectives, orientation, indoctrination, technical objectives, technological objectives, management by objective, division organization, aids to navigation, and BUTTERCUP drill.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in administration or management (5/74); in the upper-division baccalaureate category, 2 semester hours in administration or management (5/74).

NV-1408-0012
ENGINEERING AID, CLASS C, PLANNING AND ESTIMATING
(EAC'S PLANNING AND ESTIMATING)
(COURSE EXHIBITS GROUP RATINGS, CLASS C)
Course Number: A-412-0012.
Location: Construction, Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS; Construction School, Davisville, RI.
Length: 8 weeks (240-243 hours).
Exhibit Dates: 10/64-6/71.
Objectives: To train petty officers to plan and estimate construction projects.
Instruction: Lectures and practical exercises in mathematics, blueprint reading, specifications, resource publications, drafting, estimating procedures, estimating various trades, material procurement, and project planning and scheduling.
Credit Recommendation: In the vocational certificate category, 8 semester hours in planning and estimating construction projects (7/76); in the lower-division baccalaureate/associate degree category, 4 semester hours in planning and estimating construction projects (7/76); in the upper-division baccalaureate category, 2 semester hours in planning and estimating construction projects (7/76).

NV-1408-0013
CIVIL ENGINEER CORPS OFFICER
BASIC—CONTRACT ADMINISTRATION SPECIALTY
Location: Civil Engineer Corps Officer's School, Port Hueneme, CA.
Credit Recommendation: Version 1: 4 semester hours in business organization and management, 2 in public works administration or facilities management (3/76); Version 2: 2 in the lower-division baccalaureate/associate degree category, 4 semester hours in business organization and management, 2 in public works engineering (12/68).

NV-1408-0015
CIVIL ENGINEER CORPS OFFICER

Location: Civil Engineer Corps Officer's School, Port Hueneme, CA.

Objectives: To train officers to perform construction/administration duties in the Civil Engineer Corps.

Instruction: Version 1: Lectures in Naval financial management, budgeting, fund control, financing for public works activities, facilities management, public works administration, labor relations, disaster control, principles of management, project planning, scheduling, and resource planning. Also included are lectures and workshops in construction/administration duties in the Civil Engineer Corps.

Credit Recommendation: Version 1: 4 semester hours in business organization and management, 2 in public works administration or facilities management (3/76); Version 2: 2 in the lower-division baccalaureate/associate degree category, 4 semester hours in business organization and management, 2 in public works engineering (12/68).

NV-1408-0014

CIVIL ENGINEER CORPS OFFICER

Location: Civil Engineer Corps Officer's School, Port Hueneme, CA.

Objectives: To train officers to perform public works management duties in the Civil Engineer Corps.

Instruction: Version 1: Lectures in Naval financial management, budgeting, fund control, financing for public works activities, facilities management, public works administration, labor relations, disaster control, principles of management, project planning, scheduling, and resource planning. Also included are lectures and workshops in facilities management, including financial, maintenance, and equipment management, utilities and energy management, environmental and social topics including an extensive simulation exercise. Version 2: Lectures in public works management, including funding for financial management, principles of budgeting, financing for public works activities, fund control, facilities management, and finance problems, maintenance, utilities, and transportation management, and introduction to contract and labor, contract procedures, specifications, fund control, financial management, and industrial relations.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 2 semester hours in principles of management, administration, and organization, and in public works administration or facilities management (3/76); Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in business organization and management, 2 in public works administration (5/74); in the upper-division baccalaureate category, 4 semester hours in business organization and management, 2 in public works engineering (12/68).

NV-1408-0016
PERSONNEL MANAGER, CLASS C, NAVAL

Course Number: Not available.
Location: Personnel Manager, Class C School, San Diego, CA.
Length: 4 weeks (120 hours).
Exhibit Dates: Not available.

Objectives: To train personnel in naval management analysis.

Instruction: Lectures and practical exercises in the technical elements of recruiting, classification and interviewing, enlisted classification, training analysis, and career information and counseling, including introduction to manpower utilization, naval occupational analysis, work simplification and improvement, management/manpower survey methods, navy shipboard manpower survey reports and written communication, and source data automation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in management and manpower analysis (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in management and manpower analysis (6/74); in the upper-division baccalaureate category, 2 semester hours in management and manpower analysis (12/68).

NV-1408-0017
SHORE FACILITIES PLANNING

Course Number: A-4A-0017.
Location: Naval Construction Battalion Center, Port Hueneme, CA.
Length: 2 weeks (63 hours).
Exhibit Dates: 2/64-12/66.

Objectives: To provide officers and civilian personnel with training in shore facilities planning and administration.

Instruction: Lectures and practical exercises in shore facilities planning, construction, and administration including environmental enhancement, financing facilities projects, military construction program, capital resources management, influence of nuclear weapons on facilities planning and design, organization, planning and operations, planning considerations and criteria, and applications.

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

NV-1408-0018
METHODS ENGINEERING

Course Number: None.
Location: Bureau of Supplies and Accounts, Washington, DC.
Length: 7 weeks (280 hours).
Exhibit Dates: 8/59-12/68.

Objectives: To provide officers and civilian personnel with training in modern industrial engineering techniques.

Instruction: Lectures and practical exercises in process charting, motion study, operational analysis, layout study, methods/time measurement, work sampling, and engineered time standards.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in methods engineering (2/74).

NV-1408-0019
AVIATION STOREKEEPER, CLASS B

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 10 weeks (400 hours).
Exhibit Dates: 9/71-Present.

Objectives: To train enlisted personnel to be aviation storekeepers.

Instruction: Lectures and practical exercises in supervision fundamentals, personnel administration, procurement office administration, correspondence and filing, automatic data processing, inventory management, aviation accounting and finance, and aviation maintenance.

Navy

1-91
Credit Recommendation: In the vocational certificate category, 4 semester hours in office administration (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in office administration (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in office administration (7/74).

NV-1408-0020

CHAPLAIN SCHOOL ADVANCED

Course Number: A-5G-0011
Location: Naval Education and Training Center, Newport, RI.

Length: 37-39 weeks (859-1246 hours).

Exhibit Dates: 1/58-12/59.

Objectives: To train senior chaplains to perform supervisory and managerial roles.

Instruction: Lectures and practical exercises in the supervisory and managerial responsibilities in the armed services. Course includes managerial behavior, organizational behavior, styles of management, supervisory skills, organizational ethics, current theological trends, oral communication, religious education, pastoral counseling, and contemporary ministry.

Credit Recommendation: In the upper-division baccalaureate category, 15 semester hours in managerial behavior, 10 in organizational behavior, 2 in speech communication, 16 in theology (8/74).

NV-1408-0021

MEDICAL ADMINISTRATIVE TECHNICIAN, CLASS C

(MEDICAL ADMINISTRATIVE TECHNICIAN (DENTAL))

(MEDICAL ADMINISTRATIVE TECHNIC (DENTAL))

Course Number: B-513-0010; B-513-0011; B-513-0012; B-513-0013.
Location: Hospital Corps School, San Diego, CA; Naval Hospital, Portsmouth, VA.

Length: 30-42 weeks (1,125-1,319 hours).

Exhibit Dates: 6/55-12/71.

Objectives: To train personnel to prepare, maintain, and account for medical supplies, equipment, and staff and patient personnel records.

Instruction: Lectures and practical exercises in personnel management, leadership, clerical procedures, food service, business English composition, effective speaking, office management, accounting principles, and material management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in personnel management, 3 in typing, 3 in business English, 3 in speech, 3 in office management, and 3 in principles of accounting (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management, 3 in typing, 3 in business English, 3 in office management, 3 in speech, and 3 in principles of accounting (7/74); in the upper-division baccalaureate category, 15 semester hours in institutional management, and credit in typing, speech, and instructional methods on the basis of institutional examination (12/68).

NV-1408-0022

BASIC SUBMARINE OFFICER (SUBMARINE OFFICER BASIC)

Course Number: F-00-014; A-2E-0028.
Location: Submarine School, Groton, CT.

Length: 24 weeks (936-938 hours).

Exhibit Dates: 1/66-Present.

Objectives: To qualify selected officers and enlisted personnel for the designation, "Qualified in Submarines."

Instruction: Lectures and practical exercises to teach the student the duties and responsibilities of an officer of the deck of a submarine; the principles and procedures of submerged ship control so that he will be able to perform as a diving officer; navigation; submarine damage control; principles of submarine design, construction, and operation; weapons; fire control maintenance; FBM weapon systems; submarine tactics; and engineering.

Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in management (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in management (8/74); in the upper-division baccalaureate category, 2 semester hours in naval engineering and 2 in engineering management (12/68).

NV-1408-0023

NAVY EXCHANGE MANAGEMENT

Course Number: A-BF-010.
Location: U.S. Navy Ship's Store Office, Brooklyn, NY.

Length: 6 weeks (100 hours).

Exhibit Dates: 1/66-Present.

Objectives: To train officers in the management of Navy exchanges.

Instruction: Lectures and practical exercises in principles of personnel, retailing and services management, retail display, accounting, and financial methods.

Credit Recommendation: In the vocational certificate category, 2 semester hours in business management (2/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in business management (2/74).

NV-1409-0001

PERSONNELMAN, CLASS A

Course Number: A-500-0014; A-500-0015; A-500-0026.
Location: Service School Command, Bainbridge, MD; Service School Command, San Diego, CA; Naval Training Center, Orlando, FL; Naval Training Center, Meridian, MS.


Objectives: To train enlisted personnel to perform as yeomen.

Instruction: All Versions: Lectures and practical exercises in the duties of a yeoman striker, including fundamentals of typewriting, advanced typewriting, office etiquette and efficiency, publications, classified material, filing, correspondence, personnel accounting, officer records, captain's office, executive officer's office, enlisted service record, shipboard department offices and associated records, and legal records and procedures. Version 1: Instruction is self-paced beginning 1975. Instruct in typing is provided for students who enter the course as nonqualified typists. Exams is on manual records and forms.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in typing for students entering the course as nonqualified typists (3/74). Version 2: In the vocational certificate category, 2 semester hours in typing (3/74). In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel administration (3/74).

NV-1409-0002

YEOMAN, CLASS A

Course Number: A-510-0012.
Location: Naval School, Bainbridge, MD; Naval School, Meridian, MS; Naval School, San Diego, CA; Naval School, Orlando, FL.


Objectives: To train enlisted personnel to perform as yeomen.

Instruction: All Versions: Lectures and practical exercises in the duties of a yeoman striker, including fundamentals of typewriting, advanced typewriting, office etiquette and efficiency, publications, classified material, filing, correspondence, personnel accounting, officer records, captain's office, executive officer's office, enlisted service record, shipboard department offices and associated records, and legal records and procedures. Version 1: Instruction is self-paced beginning 1975. Instruct in typing is provided for students who enter the course as nonqualified typists. Exam is on manual records and forms.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in typing for students entering the course as nonqualified typists (3/74). Version 2: In the vocational certificate category, 2 semester hours in typing (3/74). In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel administration (3/74).

NV-1409-0003

AVIATION MAINTENANCE ADMINISTRATION MAN, CLASS A

Course Number: C-516-2010.


Objectives: To provide enlisted Navy and Marine Corps personnel with training in clerical and administrative procedures.

Instruction: Lectures and practical exercises in office procedures, aeronautical publications, naval maintenance and material management systems, aircraft and equipment accounting, aircraft logs and records, and maintenance administration.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in typing (2/74); in the
lower-division baccalaureate/associate degree category, 3 semester hours in typing (2/74). Version 2: In the vocational certificate category, 3 semester hours in typing (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typing (2/74). Version 3: In the vocational certificate category, 3 semester hours in typing (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typing (2/74). Version 4: In the vocational certificate category, 3 semester hours in typing (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typing (2/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional examination (12/68).

NV-1409-0004

AIRBORNE COMMUNICATOR

Course Number: E-201-0010; E-201-10.
Location: Fleet Aviation Specialized Operational Training Group, Pacific, Moffett Field, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 8/72-Present.
Objectives: To train personnel to perform as airborne communications personnel.
Instruction: Lectures and practical exercises in airborne communications, including message format and drafting, standard military communication procedures, naval communication procedures, emergency communication procedures, radio control procedures, airborne teletype operation and procedures, fleet air broadcast procedures, teletype preflight, message and operating procedures, and relay procedures.
Credit Recommendation: In the vocational certificate category, credit in typing on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, credit in typing on the basis of institutional examination (6/74).

NV-1409-0005

MARINE AVIATION SUPPLY (MANUAL), CLASS C

Course Number: C-551-2011.
Location: Air Technical Training Center, Memphis, TN.
Length: 6 weeks (240 hours).
Exhibit Dates: 3/72-Present.
Objectives: To train personnel in aviation supply.
Instruction: Lectures and practical exercises on marine aviation supply, including fundamentals of the squadron material control unit, typing and correspondence, item identification and management codes, material identification, allowance lists, procurement, fundamentals of the group supply department, organization of group supply, functions of the SRS and CCS/SSS, and aviation supply in operation.
Credit Recommendation: In the vocational certificate category, 1 semester hour in typing (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in typing (6/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional examination (2/74).

NV-1409-0006

STOREKEEPER SCHOOL, CLASS A

Course Number: A-551-0014.
Location: Storekeeper, Class A School, Newport, RI; Storekeeper, Class A School, San Diego, CA.
Length: 12 weeks (360 hours).
Exhibit Dates: 7/55-12/68.
Objectives: To train enlisted personnel to be storekeepers.
Instruction: Lectures and practical exercises in typing and processing naval storeroom records.
Credit Recommendation: In the vocational certificate category, 3 semester hours in typing (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typing (2/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional examination (12/68).

NV-1409-0007

COMMUNICATIONS YEOMAN, CLASS A

Location: Version 1: Communications Yeoman, Class A School, Norfolk, VA.
Version 2: Radioman, Class A School, Bainbridge, MD.
Length: 6 weeks (178-179 hours).
Exhibit Dates: 7/64-12/68.
Objectives: To train enlisted personnel to perform clerical, voice operator, and teletypewriter operator duties.
Instruction: Lectures and practical exercises in the performance of clerical, voice operator, and teletypewriter operator duties, including defense communication systems, Navy communication, communication security, equipment, teletypewriter procedure, voice procedure, maintenance and material management, and communication watch standing.
Credit Recommendation: In the upper-division baccalaureate category, credit in typing on the basis of institutional examination (12/68).

NV-1409-0008

MARINE AVIATION OPERATIONS CLERICAL, CLASS C

Course Number: C-517-2010.
Location: Air Technical Training Center, Memphis, TN.
Length: Version 1: 5-6 weeks (188-240 hours). Version 2: 5 to 6 weeks (210 hours).
Version 2: 4/64-4/68.
Objectives: To train enlisted personnel as aviation operations clerks.
Instruction: All Versions: Lectures and practical exercises in aviation operations, including airfield operations, squadron operations, office methods, and operational tasks. Version 2: Topics include basic typing, flight records and reports, aviator's individual flight log, records and reports, aviation pay records and reports, security of classified information, aircraft mishap reporting procedures, organization and standards of an airfield, flight information planning publications, NOTAMS, weather sequence reports, aircraft clearance, standard directives system, operation and care of office machines, reproduction of directives, and correspondence.
Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in typing (7/74). Version 2: In the upper-division baccalaureate category, credit in typing on the basis of institutional examination (12/68).

NV-1511-0001

COUNTERINSURGENCY/SELF-PROTECTION/ SERE

Course Number: H-00-5222; H-00-5222.
Location: Amphibious School, San Diego, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel in Pacific area country orientation, survival, weapons, and counterinsurgency operations.
Instruction: Lectures and practical exercises in the history of insurgent movements, counterinsurgency fundamentals, communist organization, and goals; guerrilla and counterguerrilla operations; psychological operations, area cultures, and political orientations; basic language training, fieldcraft, and weapons training.
Credit Recommendation: In the upper-division baccalaureate category, 1 semester hour in political science (3/74).

NV-1511-0002

1. COLLEGE OF NAVAL WARFARE
2. SCHOOL OF NAVAL WARFARE
3. SCHOOL OF NAVAL WARFARE (NAVAL WARFARE COURSE)
4. NAVAL WARFARE COURSE

Course Number: P-00-1101.
Location: Naval War College, Newport, RI.
Objectives: To develop understanding in the science of naval warfare, international relations, and interservice operations, with emphasis on applications to future naval warfare, in order to prepare officers for higher command positions.
Instruction: Version 1: Lectures, seminars, and extensive reading and writing in the science of naval warfare, international relations, and interservice operations, including applications to future naval warfare, strategy, economy, nineteenth and twentieth-century diplomatic history, political science, management and business administration, and tactics. Version 2: Lectures, readings, and student research in the science of naval warfare, international relations, and interservice operations, including sea power and maritime strategy and their relationship to the political, economic, social, and military factors affecting national security; international affairs, including international law, organizations, and relations, and the planning and conduct of naval, joint, and combined operations, including management procedures. Version 3: Lectures, readings, and student research in the science of naval warfare, international relations and interservice operations, including orientation to armed services and State Department organizations; fundamentals of logical analysis; fundamentals of warfare and maritime strategy; international law and its relation to command functions; strategy studies, including international relations, factors influencing U.S. national objectives and policy, relations between the U.S. and the free world, the U.S.S.R. and the Soviet bloc, and U.S. and
U.S.S.R. interests, objectives, and basic undertakings; organization and interrelationship of the U.S.S.R. governmental agencies involved in formulation and implementation of national security policy; strategic planning study; including joint strategic, operational, and logistic planning at various command levels; national military strategy and war plans; contingency concepts of operation under conventional and nuclear war conditions; and major weapons systems within the naval warfare strategy, including military planning processes and major weapon systems within the naval warfare strategy, including military planning processes and major weapon systems. The graduate category. For other students, acceptance of credit should be contingent upon institutional evaluation. Credit recommendation: Version 1: Lectures, readings, and student research in the four fundamental areas of international relations, and interservice operations, including applications to future naval warfare. The course, offered in two parts, each one academic year in length, includes an introduction to the current world situation, nuclear weapons systems, and weapons orientation, factor affecting areas of the world, planning systems and problems of various levels of command, variegated aspects of sea power, and national interests, and national policy.

Credit recommendation: Version 1: In the upper-division baccalaureate category, 9 semester hours in the combined areas of economics, nineteenth- and twentieth-century diplomatic history, political science, and international relations, all within the Strategy curriculum, 15 semester hours in the areas of management and business administration within the Defense Economics and Decisions Making curriculum; and in the Tactics curriculum, 9 semester hours in the combined areas of economics, nineteenth- and twentieth-century diplomatic history, political science, and international relations, all within the Strategy curriculum. 12 semester hours in the areas of management and business administration within the Defense Economics and Decisions Making curriculum; and in the Tactics curriculum, no credit because of the military nature of the course (8/74).

1. College of Naval Command and Staff
2. School of Naval Command and Staff
3. School of Naval Command and Staff

(Course and Staff Course)

Course Number: P-00-1201
Location: Naval War College, Newport, RI
Length: 43 weeks


Objectives: To develop understanding in the fundamentals of warfare, international relations, and interservice operations in order to prepare officers for higher command positions.

Instructor: Version 1: Lectures, seminars, and extensive reading and writing in the sciences of naval warfare, internation relations, and interservice operations, including applications to future naval warfare, strategy, economics, twentieth-century diplomatic history, political science, management of business administration, and tactics. Version 2: Lectures, readings, and student research and discussions in the sciences of naval warfare, international relations, and interservice operations, including international relations and law, evolution of strategic theory and advanced military history, economics, military and naval decision-making, and planning procedures, tactics, management, and political, legal, social, and economic factors influencing naval operations and policies. 

NY-1511-0003

1. College of Naval Command and Staff
2. School of Naval Command and Staff
3. School of Naval Command and Staff

(Command and Staff Course)

Course Number: P-00-1201
Location: Naval War College, Newport, RI
Length: 43 weeks


Objectives: To develop understanding in the fundamentals of warfare, international relations, and interservice operations in order to prepare officers for higher command positions.

Instructor: Version 1: Lectures, seminars, and extensive reading and writing in the sciences of naval warfare, internation relations, and interservice operations, including applications to future naval warfare, strategy, economics, twentieth-century diplomatic history, political science, management of business administration, and tactics. Version 2: Lectures, readings, and student research and discussions in the sciences of naval warfare, international relations, and interservice operations, including international relations and law, evolution of strategic theory and advanced military history, economics, military and naval decision-making, and planning procedures, tactics, management, and political, legal, social, and economic factors influencing naval operations and policies.
students completing the course with a grade of B or higher (3/76).

**NV-1511-0005**

**NAVAL WAR COLLEGE CORRESPONDENCE COURSE:** In Defense, Economics and Decision-Making.

**Course Number:** None.

**Location:** Center for Continuing Education, Newport, RI.

**Length:** 300 hours.

**Exhibit Dates:** 1/74-Present.

**Objectives:** To further the student's awareness of the importance of the scarcity of resources, the allocation of these resources among competing uses, both public and private. Stress is placed upon the analytical techniques available for decision making in a context of scarcity with attention to the strengths and limitations of technical analysis.

**Instruction:** The course is divided into five major parts: microeconomic analysis and the analytical techniques useful in decision making; the behavioral problems that must be considered in the decision-making process; and the management principles and techniques useful in decision making in the public and private sectors. Assigned readings exceed 3000 pages; additional recommended readings are considerably more. Students are required to submit a number of written reports which are critiqued by the faculty in detail. Written submissions for component parts of the course range between 200 and 250 pages. An integrative examination is given as the final exercise in the course.

**Credit Recommendation:** In the graduate degree category, 3 semester hours in quantitative economics and decision-making in the public and private sectors. However, the student must complete this course with a grade of B or higher (3/76).

**NV-1512-0001**

**INTERCULTURAL RELATIONS—RACE RELATIONS SPECIALIST TRAINING**

**Course Number:** A-00-0117.

**Location:** Naval Amphibious School, San Diego, CA.

**Length:** 3 weeks (120 hours).

**Exhibit Dates:** 7/72-Present.

**Objectives:** To train personnel to facilitate discussions on racial issues.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in human relations or basic psychology (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in human relations or basic psychology (8/74); in the upper-division baccalaureate category, 3 semester hours in human relations or basic psychology (8/74).

**NV-1512-0002**

**HIGH IMPACT PERSONNEL OVERSEAS DUTY TRAINING (INTERCULTURAL RELATIONS—OVERSEAS DUTY TRAINING)**

**Course Number:** A-00-0717.

**Location:**Naval Amphibious School, Coronado, San Diego, CA; Naval Amphibious School, Little Creek, Norfolk, VA.

**Length:** 3 weeks (120 hours).

**Exhibit Dates:** 7/72-Present.

**Objectives:** To train personnel to fulfill diplomatic missions overseas.

**Instruction:** Lectures and practical exercises in diplomatic missions overseas. Course includes frameworks for analysis of culture, knowledge of specific cultures, intercultural communications skills, cultural value and ideology, and dynamics of change.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in human relations or basic psychology (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in human relations or basic psychology (8/74); in the upper-division baccalaureate category, 2 semester hours in human relations or basic psychology (8/74).

**NV-1512-0003**

**INTERCULTURAL RELATIONS—FACILITATOR TRAINING**

**Course Number:** A-SK-0011.

**Location:** Naval Amphibious School, San Diego, CA.

**Length:** 18 weeks (720 hours).

**Exhibit Dates:** 7/72-Present.

**Objectives:** To train personnel to facilitate intercultural relations programs.
COURSE EXHIBITS

Instruction: Lectures and practical exercises in intercultural programs. Course includes leadership skills, team building processes, cultural awareness, course familiarization, communication skills, dynamics of change, and supervised teaching.

Credit Recommendation: In the vocational certificate category, 3 semester hours in human relations or basic psychology, 1 semester hour in speech communications, 2 in human relations or basic psychology, 5 in management (training or group dynamics (8/74)); in the lower-division baccalaureate/associate degree category, 1 semester hour in speech communications, 2 in human relations or basic psychology, 5 in management (training or group dynamics (8/74)); in the upper-division baccalaureate category, 1 semester hour in speech communications, 2 in human relations or basic psychology, 5 in management training or group dynamics (8/74).

NV-1512-0001

HUMAN RESOURCE MANAGEMENT

SPECIALIST

Course Number: A-7C-0019
Location: Naval Amphibious School, San Diego, CA.
Length: 12 weeks (400 hours).
Exhibit Dates: 7/72-Present.
Objectives: To train enlisted personnel to assist organizations in a more effective use of human resources.

Instruction: The course utilizes lectures, simulations, role play and field experiences (practical). The first six weeks cover a system overview which includes the human resource management support system, communication skills, dynamics of change, and cultural, ethnic, and economic value systems of U.S.A. and Southeast Asia.

Credit Recommendation: In the vocational certificate category, 3 semester hours in introductory sociology/social work and 1 in methods in education (6/77); in the upper-division baccalaureate category, 2 semester hours in principles of management and 4 in education (6/77); in the graduate degree category, 1 semester hour in psychology/social work and 3 in survey research methods (6/77).

NV-1512-0006

HUMAN RESOURCE MANAGEMENT INSTRUCTOR

Course Number: A-7C-0019
Location: Naval Air Station, Memphis, Millington, TN.
Length: 12 weeks (400 hours).
Exhibit Dates: 6/73-Present.
Objectives: To prepare students to be instructors with a knowledge and understanding of leadership skills, cultural, ethnic, and economic value system of Southeast Asia, and language training.

Instruction: Lectures and practical exercises in the duties and responsibilities of an advisor in Vietnam. Course includes human resource training course (group dynamics, human relations, and human behavior); cultural, ethnic, and economic value system of Southeast Asia, and language training.

Credit Recommendation: In the vocational certificate category, 3 semester hours in human relations or group dynamics (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to psychology or human relations, 3 in social science (7/74); in the upper-division baccalaureate category, 3 semester hours in human relations or group dynamics.

NV-1513-0002

NAVAL ADVISOR

Course Number: A-2G-0019.
Location: Naval Amphibious School, San Diego, CA.
Length: 4 weeks (112 hours).
Exhibit Dates: 7/72-Present.
Objectives: To train enlisted personnel to advise Vietnamese on staff organization and procedures.

Instruction: Lectures and practical exercises in the duties and responsibilities of an advisor in Vietnam. Course includes administration concerns and procedures, self-awareness and interpersonal and intergroup relations, personal and group values, nature of prejudice, management, cultural, Vietnamese culture, personal action programs, and materials, equipment, and publications.

Credit Recommendation: In the vocational certificate category, 2 semester hours in human relations or group dynamics (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in human relations or group dynamics (7/74); in the upper-division baccalaureate category, 2 semester hours in human relations or group dynamics (7/74).

NV-1513-0003

INTERCULTURAL RELATIONS—VIETNAM ADVISOR TRAINING

Course Number: A-2G-0020.
Location: Naval Amphibious School, San Diego, CA.
Length: 6 weeks (198 hours).
Exhibit Dates: 7/72-Present.
Objectives: To train enlisted personnel to advise Vietnamese on staff organization and procedures.

Instruction: Lectures and practical exercises in the duties and responsibilities of an advisor in Vietnam. Course includes administration concerns and procedures, self-awareness and interpersonal and intergroup relations, personal and group values, nature of prejudice, management, cultural, Vietnamese culture, personal action programs, and materials, equipment, and publications.

Credit Recommendation: In the vocational certificate category, 2 semester hours in human relations or group dynamics (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in human relations or group dynamics (7/74); in the upper-division baccalaureate category, 2 semester hours in human relations or group dynamics (7/74).

NV-1513-0004

CHAPLAIN SCHOOL BASIC

Course Number: A-3G-0010.
Location: Naval Education and Training Center, Newport, RI.
Length: 8 weeks (280 hours).
Exhibit Dates: 4/72-Present.
Objectives: To train chaplains to serve the personal religious needs of military personnel.

Instruction: Lectures and practical exercises in the duties of a chaplain in the military. Course includes supervision, guidance, and counseling; drug abuse; discipline; minority group advisement; human growth and development; counseling techniques; group processes and interactions; and leadership skills.
Credit Recommendation: In the vocational certificate category, 3 semester hours in guidance and counseling, 3 in group dynamics (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in guidance and counseling; 3 in group dynamics (8/74).

NV-1601-0001
COMPRESSED GASES CRYOGENER

Course Number: A-750-0012.
Location: Compressed Gases Class C School, Portsmouth, VA.
Length: 3 weeks (110 hours).
Exhibit Dates: 7/77-2Present.
Objectives: To train personnel to operate and maintain the mechanical portions of the Model 'B' cryogenator.

Instruction: Lectures and practical exercises on the operation and maintenance of the mechanical portion of the model 'B' cryogenator, including the system and component data; theory of operation and process familiarization of the model 'B' cryogenator, description, function, and principles of operation of components and systems; corrective maintenance, tracing leaks; critical parts and tolerances; and electrical and mechanical troubleshooting.

Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in mechanical technology (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in mechanical technology (6/74).

NV-1601-0002
ELECTROLYTIC OXYGEN GENERATOR 71.16

Course Number: F-652-015.
Location: Submarine School, Groton, CT.
Length: 3 weeks (90 hours).
Objectives: To train enlisted personnel to operate and maintain the 71.16 oxygen generator.

Instruction: Lectures and practical exercises on the operation and maintenance of the 71.16 electrolytic oxygen generator, including maintenance and material management system, introduction to the electrolytic generator, familiarization to the installed oxygen generator, and purge procedures.

Credit Recommendation: In the vocational certificate category, certificate in mechanical technology (6/74).

NV-1601-0003
ENGINEERING AID, CLASS A1 (E/A’)

Course Number: A-412-0010; A-412-0013.
Location: Construction Training Center, Port Huemen, CA; Construction Training Center, Gulfport, MS; Construction School, Davisville, RI.
Length: 11-16 weeks (347-437 hours).
Exhibit Dates: 5/61-Present.
Objectives: To train enlisted personnel to be engineering aides.

Instruction: Lectures and practical exercises, in concrete, and soil quality control, fabrication, testing, drafting, and critical parts and tolerances; and electrical and mechanical troubleshooting.

Credit Recommendation: In the vocational certificate category, 3 semester hours in guidance and counseling, 3 in group dynamics (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in guidance and counseling; 3 in group dynamics (8/74).

NV-1601-0004
EQUIPMENT OPERATORS, WATER WELL DRILLING AND DEVELOPMENT, CLASS C (EO/C, WATER WELL DRILLING AND DEVELOPMENT)

Course Number: A-730-0014; A-730-0015; A-730-0016.
Location: Construction Training Center, Port Huemen, CA; Construction Training Center, Gulfport, MS; Construction School, Davisville, RI.
Length: 4 weeks (120 hours).
Exhibit Dates: 11/65-7Present.
Objectives: To train enlisted personnel in water well drilling and development operations.

Instruction: Lectures and practical exercises in water well drilling and development, including ground water supply, safety precautions in well drilling, rotary drilling machines, drilling machines maintenance, air operated drills, pumps, testing wells for yield and drawdown, and testing for residual chlorine.

Credit Recommendation: In the vocational certificate category, 2 semester hours in water well drilling (7/77).

NV-1601-0005
OXYGEN GENERATOR (MECHANICAL)

Course Number: L-652-012.
Location: Fleet Submarine Training Facility, Pearl Harbor, HI.
Length: 3-4 weeks (90 hours).
Exhibit Dates: 7/69-7Present.
Objectives: To train enlisted personnel to operate and maintain oxygen generation equipment.

Instruction: Lectures and practical exercises in the operation of an oxygen generation system. Course includes electrolytic cell, valve nomenclature, nitrogen system, distilled water system, oxygen system, cooling system, gas analyzer systems, annunciator panel, pneumatic system and controls, pneumatic control calibration, operating and purge procedures, spot welding, maintenance and clean-up, generator pressure test, and introduction to the electrical system, and generator operation and troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in chemical technology elective (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in chemical technology elective (5/74).

NV-1601-0006
OXYGEN GENERATOR MECHANICAL MODEL 6L1.6 (ENLISTED)

Course Number: F-652-044.
Location: Submarine School, Groton, CT.
Length: 4 weeks (120 hours).
Exhibit Dates: 5/68-Present.
Objectives: To train enlisted personnel to maintain and operate the 6L1.6 electrolytic oxygen generator under normal and emergency conditions.

Instruction: Lectures and practical exercises on the operation and maintenance of the 6L1.6 electrolytic oxygen generator. Course includes function of flow systems and electronic control systems, normal and emergency operations, basic hydraulic principles, valves, transducers, hydraulic flow components, electrolyte cell calibration, preventive maintenance, check-out and test procedure, safety precautions, and system troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in chemical technology (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in chemical technology (5/74).

NV-1601-0007
EQUIPMENT OPERATIONS (CLASS C)

Course Number: Not available.
Location: Air Technical Training Unit, Larchmont, NJ.
Length: 14 weeks (566 hours).
Exhibit Dates: 4/56-12/68.
Objectives: To train personnel in maintenance, testing, and repair of oxygen equipment.

Instruction: Lectures and practical exercises in the maintenance, testing, and repair of the aircraft oxygen equipment, including regulators, full-pressure units, oxygen regulator test stand, pressure bleaching regulators, liquid oxygen test stands and conversion units, and ready-room and flight-line procedures.

Credit Recommendation: In the vocational certificate category, 5 semester hours in oxygen equipment (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in aerospace technology (5/74).

NV-1601-0008
ELECTROLYTIC OXYGEN GENERATOR OPERATORS

Course Number: A-652-0557.
Location: Submarine Training Center, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/72-7Present.
Objectives: To train personnel to operate and maintain the 6-L-16 oxygen generator.

Instruction: Lectures and practical exercises in the maintenance and operation of the 6-L-16 oxygen generator; including detailed analysis and troubleshooting of all mechanical components, purging of the oxygen generator, valve nomenclature, cell construction and installation, and cleaning and degreasing, and gas analyzers.
Credit Recommendation: No credit because of the limited technical nature of the course (5/74).

NV-1601-0009
6L16 OXYGEN GENERATOR TECHNICIAN
Course Number: A-625-0034; F-625-044.
Location: Submarine School, Groton, CT.
Length: 4 weeks (360 hours).
Exhibit Dates: 2/76-Present.
Objectives: To train personnel to operate and maintain the Mk 16 oxygen generator technicians.
Instruction: Lectures and practical exercises in the theory of operation and maintenance of the 6L16 oxygen generator and associated equipment.

NV-1601-0010
COMPRESSION GASES, CLASS C, HIGH PRESSURE OXYGEN-NITROGEN PLANT
(CRYOGENICS, CLASS C)
(COMPRESSED GASES, CLASS C)
Course Number: A-750-0031.
Location: Norfolk Naval Shipyard, Portsmouth, VA.
Length: 14 weeks (436-452 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train personnel to operate and maintain high-pressure liquid oxygen/nitrogen generating plants and associated equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of high-pressure liquid oxygen/nitrogen generating plants and associated equipment.

NV-1601-0011
TORPEDOES Mk 14 MOD 5 AND Mk 16 MOD 8 INTERMEDIATE MAINTENANCE
Course Number: A-123-0132; K-123-592.
Location: Service Schools Command, Orlando, FL; Fleet Training Group, Pearl Harbor, HI.
Length: 15 weeks (420-450 hours).
Exhibit Dates: 2/76-Present.
Objectives: To train personnel to operate and maintain the Mk 16 torpedoes and associated test equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of Mk 16 torpedoes and associated test equipment.

NV-1601-0012
SELF-NOISE DETERMINATION AND CLASSIFICATION
Course Number: F-210-013.
Location: Submarine School, Groton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 1/77-Present.
Objectives: To train personnel to operate and maintain the 6L16 oxygen generator technicians.
Instruction: Lectures and practical exercises in the operation and maintenance of the 6L16 oxygen generator and associated equipment.

NV-1601-0013
ENGINEERING CONTROL AND SURVEILLANCE SYSTEM OPERATOR, CLASS C1
Course Number: A-652-0074.
Location: Service School Command, Great Lakes, IL.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/77-Present.
Objectives: To provide technical knowledge and skills in the performance of duties and maintenance of the following systems: energy control and surveillance systems of the DD963 class destroyer.
Instruction: Areas of instruction include working knowledge of the operation and maintenance of the following systems: electrical plant control equipment, propulsion and auxiliary machinery information systems equipment, propulsion local operating equipment and central information system equipment.

NV-1601-0014
ENGINEERING CONTROL AND SURVEILLANCE SYSTEM MAINTENANCE, CLASS C1
Course Number: A-652-0075.
Location: Service School Command, Great Lakes, IL.
Length: 10-12 weeks (400-480 hours).
Exhibit Dates: 1/77-Present.
Objectives: To train personnel to operate and maintain the 6L16 oxygen generator technicians.
Instruction: Lectures and practical exercises in the operation and maintenance of high-pressure liquid oxygen/nitrogen generating plants and associated equipment.

NV-1601-0015
DD963 CENTRALIZED DAMAGE CONTROL CONSOLE OPERATOR, CLASS C1
Course Number: A-652-0071.
Location: Service School Command, Great Lakes, IL.
Length: 3 weeks (120 hours).
Exhibit Dates: 5/77-Present.
Objectives: To train personnel to operate and maintain the damage control/fuel control conscience for the DD963 class destroyer.
Instruction: Areas of instruction include working knowledge of the operation and maintenance of the following systems: electrical plant control equipment, propulsion and auxiliary machinery information systems equipment, propulsion local operating equipment and central information system equipment.

NV-1601-0016
DD963 CENTRALIZED DAMAGE CONTROL SYSTEM CONSOLE MAINTENANCE, CLASS C1
Course Number: A-652-0081.
Location: Service School Command, Great Lakes, IL.
Length: 2 weeks (60 hours).
Exhibit Dates: 4/76-Present.
Objectives: To train personnel to operate and maintain the damage control/fuel control conscience for the DD963 class destroyer.
Instruction: Areas of instruction include working knowledge of the operation and maintenance of the following systems: electrical plant control equipment, propulsion and auxiliary machinery information systems equipment, propulsion local operating equipment and central information system equipment.

NV-1601-0017
SSM Degaussing System for DD963 Class Destroyer, Class C1
Course Number: A-690-0022.
Location: Service School Command, Great Lakes, IL.
Length: 2 weeks (60 hours).
Exhibit Dates: 4/76-Present.
Objectives: To train personnel to operate and maintain the damage control/fuel control conscience for the DD963 class destroyer.
Instruction: Areas of instruction include working knowledge of the operation and maintenance of the following systems: electrical plant control equipment, propulsion and auxiliary machinery information systems equipment, propulsion local operating equipment and central information system equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (9/77).
NV-1606-0001
INTELLIGENCE ADVISOR, VIETNAM

Course Number: A-3A-0.023.
Location: Naval Amphibious School, Coronado, San Diego, CA.
Length: 2 weeks (87 hours).

Exhibit Dates: 5/72-Present.

Objectives: To train intelligence officers in personal and family counseling, and to provide instruction in marine science, technology, and related fields.

Instruction: Lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business administration.

NV-1606-0002

IOIC SUPERVISOR

Course Numbers: D-3A-013.
Location: Headquarters Intelligence Officer, Attack Squadron Three, Atchison, KS.

Length: 6 weeks (240 hours).

Exhibit Dates: 1/70-Present.

Objectives: To train intelligence officers in the principles and practices of intelligence.

Instruction: Lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in communications.

NV-1606-0003

INTELLIGENCE OFFICER, VIETNAM (NAVAL FIELD INTELLIGENCE OFFICER, VIETNAM)

Course Number: H-3A-5516.
Location: Amphibious School, Coronado, San Diego, CA.

Length: 13 weeks (811 hours).

Exhibit Dates: 4/67-Present.

Objectives: To provide commissioned officers with personal and family counseling, and to provide instruction in marine science, technology, and related fields.

Instruction: Lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in communications.

NV-1606-0004

AMPHIBIOUS INTELLIGENCE STAFF OFFICER

Course Number: H-3A-5515.
Location: Naval Amphibious School, San Diego, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/70-3/71.

Objectives: To train instruction officers in amphibious intelligence operations, tactics, and principles.

Instruction: Lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in communications.

NV-1606-0005

MARINE ENLISTED BASIC COMBAT INTELLIGENCE

Course Number: G-243-4212.
Location: Amphibious School, Little Creek, VA.

Length: 2 weeks (60 hours).

Exhibit Dates: 1/70-Present.

Objectives: To train enlisted personnel in basic amphibious combat intelligence.

Instruction: Lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communications.

NV-1606-0006

INTELLIGENCE MAN (AIR/GROUND)

Course Number: H-243-3167.
Location: Naval Amphibious Base, San Diego, CA.

Length: 3 weeks (100 hours).

Exhibit Dates: 11/71-Present.

Objectives: To train enlisted personnel in the principles and practices of intelligence.

Instruction: Lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communications.

NV-1606-0007

1. BASIC UNDERWATER DEMOLITION/SEAL TRAINING

(BASIC UNDERWATER DEMOLITION/SEAL TEAM TRAINING)

2. UNDERWATER DEMOLITION TRAINING (OFFICERS)

(UNDERWATER DEMOLITION TRAINING (ENLISTED))

3. UNDERWATER DEMOLITION TRAINING

Location: Amphibious School, San Diego, CA; Amphibious School, Norfolk, VA.


Objectives: To train personnel in amphibious intelligence operations, tactics, and principles.

Instruction: Lectures and practical exercises.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in marine science technology. Version 2: No credit because of the military nature of the course (12/73). Version 3: No credit because of the military nature of the course (12/68).

NV-1606-0008

DIVER FIRST CLASS

Course Number: A-433-0025.
Location: Diving and Salvage School, Washington, DC.

Length: 14 weeks (465 hours).

Exhibit Dates: 12/68-Present.

Objectives: To train enlisted personnel in advanced diving, salvage, and rescue operations.

Instruction: Lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in marine science technology (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in marine science technology (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in marine science technology (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in ocean engineering (12/73).

NV-1606-0009

DEEP SEA HELIUM-OXYGEN DIVING OFFICERS

Course Number: A-4N-0014.
Location: Diving and Salvage School, Washington, DC.

Length: 7 weeks (224 hours).

Exhibit Dates: 12/68-Present.

Objectives: To train diving officers in the use of helium-oxygen diving equipment.

Instruction: Lectures and practical exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in marine science technology (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in marine science technology (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in ocean engineering (12/73).
COURSE EXHIBITS

Credit Recommendation: No credit because of the limited technical nature of the course (12/73).

NV-1606-0010

DEEP SECOND CLASS
(EOD DIVER CANDIDATES)
Course Number: A-433-0022.
Location: Naval School, Key West, FL; Naval School, Norfolk, VA; Naval School, San Diego, CA; Naval School, Guam, ML; Naval School, Pearl Harbor, HI; Naval School, Subic Bay, RPI.
Length: 7-10 weeks (230-365 hours).
Exhibit Dates: 1/62-Present.
Objectives: To train enlisted personnel in the basic aspects of scuba diving and underwater practices.
Instruction: Lectures and practical experience in the physics and medical aspects of diving, swimming and underwater swimming; buoyant ascent training; underwater search and inspection, communications, photography, demobilation, use and maintenance of deep sea and lightweight diving equipment, and methods of underwater cutting.

Credit Recommendation: In the vocational certificate category, 4 semester hours in marine science technology (1/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in ocean engineering (1/74).

NV-1606-0011

SCUBA DIVER
Course Number: A-433-0023.
Location: Naval School, San Diego, CA; Naval School, New London, CT; Naval School, Pearl Harbor, HI; Naval School, Key West, FL.
Length: 4 weeks (125-145 hours).
Exhibit Dates: 1/62-Present.
Objectives: To train enlisted personnel in the basic aspects of scuba diving and underwater operations.
Instruction: Lectures and practical experience in the physics and medical aspects of diving, swimming and underwater swimming; buoyant ascent training; underwater search and inspection; communications; photography; demobilation; use, maintenance, and repair of deep sea and lightweight diving equipment; methods of underwater cutting and repair.

Credit Recommendation: In the vocational certificate category, 4 semester hours in marine science technology (1/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in ocean engineering (1/74).

NV-1606-0012

CLOSED AND SEMICLOSED SCUBA
Course Number: None.
Location: Naval School, Key West, FL.
Length: 4 weeks (125 hours).
Exhibit Dates: 1/62-12/68.
Objectives: To train enlisted personnel in all aspects of mixed gas scuba diving and underwater practices.
Instruction: Lectures and practical experience in mixed-gas scuba diving, diving medicine, photography, buoyant ascent, use, maintenance, and underwater search and inspection.

Credit Recommendation: In the vocational certificate category, 4 semester hours in marine science technology (1/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in ocean engineering (1/74).

NV-1606-0013

UNDERWATER PHOTOGRAPHER/SCUBA DIVER
Course Number: None.
Location: Naval School, Key West, FL.
Length: 5 weeks (138 hours).
Exhibit Dates: 1/62-12/68.
Objectives: To train enlisted personnel in the basic principles of scuba diving and underwater photography.
Instruction: Lectures and practical experience in the physics and medical aspects of diving; swimming and underwater swimming; buoyant ascent training; underwater search and inspection, communications; photography; demobilation; use and maintenance of deep sea and lightweight diving equipment, and methods of underwater cutting.

Credit Recommendation: In the vocational certificate category, 3 semester hours in marine science technology (1/74).

NV-1606-0014

MEDICAL DEEP SEA DIVING TECHNICIAN
(MEDICAL DEEP SEA DIVING TECHNICIAN)
(DEEP SEA DIVERS)
Course Number: A-433-0020.
Location: Deep Sea Divers School, Washington, DC.
Length: 21-26 weeks (735-960 hours).
Exhibit Dates: 6/57-Present.
Objectives: To train medical personnel in the physiological effects of diving, and in diving techniques.
Instruction: Lectures and practical experience in the physics and medical aspects of diving; swimming and underwater swimming; buoyant ascent training; underwater search and inspection; communications; photography; demobilation; use, maintenance, and repair of deep sea and lightweight diving equipment; methods of underwater cutting and repair.

Credit Recommendation: In the vocational certificate category, 6 semester hours in marine science technology (1/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in marine science technology (1/74).

NV-1606-0015

SHIP SALVAGE DIVING OFFICERS
Course Number: A-433-0011.
Location: Diving and Salvage School, Washington, DC.
Length: 14 weeks (445 hours).
Exhibit Dates: 11/68-Present.
Objectives: To train officers in the use of diving equipment.
Instruction: Diving with deep-sea, lightweight, and scuba equipment; diving physiology and first aid; and underwater engineering as applied to salvage operations.

Credit Recommendation: In the vocational certificate category, 6 semester hours in marine science technology (1/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in marine science technology (1/74).

NV-1606-0016

MASTER DIVER QUALIFICATION
Course Number: A-433-0019.
Location: Deep Sea Divers School, Washington, DC.
Length: 6 weeks (160 hours).
Exhibit Dates: 3/69-Present.
Objectives: To prepare experienced divers to meet the eligibility requirements for the title, Master Diver.
Instruction: Lectures and practical experience as refresher training in diving equipment, techniques, and safety, with emphasis on supervisory training.

Credit Recommendation: In the vocational certificate category, 4 semester hours in marine sciences (12/73), in the lower-division baccalaureate/associate degree category, 4 semester hours in oceanography (12/73); in the upper-division baccalaureate category, 3 semester hours in marine engineering (12/73).

NV-1606-0017

MEDICAL DEPARTMENT DIVING OFFICERS
Course Number: A-6A-0010.
Location: Diving and Salvage School, Washington, DC.
Length: 8 weeks (256 hours).
Exhibit Dates: 7/69-Present.
Objectives: To provide medical officers with instruction in diving techniques with emphasis on physiological aspects.
Instruction: Familiarization with deep sea, lightweight, and helium diving, operational use of SCUBA; limited training in underwater mechanics; and diving techniques with emphasis on physiological aspects.

Credit Recommendation: No baccalaureate credit because course participation is limited to medical doctors (6/75).

NV-1606-0018

BASIC PROP FLIGHT INSTRUCTOR
Course Number: Q-2A-0066.
Location: Naval Air Station, Corpus Christi, TX.
Length: 3 weeks (117 hours).
Exhibit Dates: 7/73-Present.
Objectives: To train pilots as flight instructors for basic prop aircraft.
Instruction: Lectures and in-flight training in teaching prop-aircraft flight procedures, including instrument training, instrument simulator, radio instrument simulator, safety procedures, night flight procedures, and aircraft preflight and takeoff procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (2/74).

NV-1606-0019

FLIGHT INSTRUCTOR TRAINING
Course Number: None.
Location: Naval Aviation Schools Command, Pensacola, FL.
Length: 2 weeks (71-78 hours).
Exhibit Dates: 5/61-7/68.
Objectives: To train qualified pilots to be instructor pilots.
Instruction: Lectures, include the basic principles of education, orientation for the
NV-1606-0020
PROSPECTIVE PROSPECTIVE PROSPECTIVE FLIGHT INSTRUCTOR (PROSPECTIVE PROSPECTIVE PROSPECTIVE PROP FLIGHT INSTRUCTOR (PROSPECTIVE ASW FLIGHT INSTRUCTOR (PROSPECTIVE ASW FLIGHT INSTRUCTOR (S-2 TYPE AIRCRAFT)))

**Course Number:** C-FA-0061
**Location:** Air Advanced Training Command, Corpus Christi, TX
**Length:** 9 weeks (67-94 hours)

**Objectives:** To train pilots as flight instructors for prop aircraft.

**Instruction:** Lectures in flight rules and regulations, instrument navigation, aerodynamics, meteorology, navigation, in-flight procedures, takeoff and landing techniques, emergency procedures, aircraft engine familiarization, and military tactics.

**Credit Recommendation:** No credit because of the limited technical nature of the course (2/74).

NV-1606-0021
PROSPECTIVE TA-4J FLIGHT INSTRUCTOR

**Course Number:** Not available
**Location:** Naval Air Station, Corpus Christi, TX
**Length:** 10 weeks (73 hours)

**Objectives:** To train pilots as flight instructors for the TA-4J aircraft.

**Instruction:** Flight training, including instrument navigation, operational navigation, and air-to-ground and air-to-air weapons; and lectures and practical exercises in flight rules and regulations, aerodynamics, and engineering.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in training as an instructor pilot (2/74).

NV-1606-0022
RA-SC AIRCRAFT FAMILIARIZATION (Pilot) (RA-SC AIRCRAFT FAMILIARIZATION)

**Course Number:** C-FA-3742
**Location:** Air Maintenance Training Detachment, Albany, GA. Air Maintenance Training Detachment, Sanford, FL
**Length:** 2 weeks (77-84 hours)

**Objectives:** To provide pilots and reconnaissance navigators with training in the operation of RA-SC aircraft and systems.

**Instruction:** Lectures and practical exercises in RA-SC aircraft and systems functions and operation, including electrical, hydraulic, power plant, fuel, and flight control systems, navigation, and air data computer; master flight reference, approach power compensator, survival, and environmental systems functions and operating procedures.

**Credit Recommendation:** Insufficient data for evaluation (2/74).

NV-1606-0023
BASIC JET NAVIGATION, CLASS O

**Course Number:** None
**Location:** Air Technical Training Center, Glenvola, GA.
**Length:** 4 weeks (160 hours)

**Exhibit Dates:** 7/64-12/65

**Objectives:** To train naval flight officers in basic jet aircraft navigation.

**Instruction:** Lectures in jet aircraft navigation theory, aircraft equipment, flight safety and survival, flight planning, dead reckoning, low-level, and radar navigation; and practical experience in navigation operations.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 6 semester hours in navigation (2/74); in the lower-division baccalaureate/associate degree category, credit in navigation on the basis of institutional examination (12/68).

NV-1606-0024
COMMAND INTELLIGENCE OFFICER (CIO)

**Course Number:** K-3A-5005
**Location:** Fleet Intelligence Training Center, Pacific, San Diego, CA.
**Length:** 6 weeks (66 hours)

**Exhibit Dates:** 10/73-Present

**Objectives:** To provide basic instruction in the specific functions and responsibilities of the collateral duty command intelligence officer.

**Instruction:** Instruction includes collection and dissemination of intelligence information and recognition and capabilities of foreign weapons systems. Methods involve classroom lectures and briefings on intelligence aids and techniques and practical exercises in organizing, preparing, and presenting intelligence briefs.

**Credit Recommendation:** No credit because of the limited specialized nature of the course (6/75).

NV-1606-0025
TA-4J ADVANCED JET

**Course Number:** None
**Location:** Naval Air Station, Corpus Christi, TX.
**Length:** 20 weeks (115-129 hours)

**Exhibit Dates:** 2/70-Present

**Objectives:** To provide students aviators as jet pilots.

**Instruction:** Flight training and lectures and practical exercises in aerodynamics, engineering, flight regulations, navigation, and meteorology.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in flight experience, 6 in theory of flight (2/74).

NY-1606-0026
SSBN NAVIGATION OFFICER

**Course Number:** A-2G-0011
**Location:** Guided Missiles School, Dam Neck, VA
**Length:** 16 weeks (362 hours)

**Credit Recommendation:** Insufficient data for evaluation (2/74).

Navy 1-101

**Exhibit Dates:** 11/72-Present

**Objectives:** To train officers to manage the operation of the navigation subsystem of the fleet ballistic missile weapons system.

**Instruction:** Lectures and practical exercises in the management of the navigational subsystem of the fleet ballistic missile weapons system, including administrative procedures, inertial theories and principles of SINS operation, navigation subsystem operation and calibration procedures, calibration theory and conventional navigation and piloting.

**Credit Recommendation:** Insufficient data for evaluation (2/74).

NV-1606-0027
RAWIN-RADIOSONDE SET OPERATOR, CLASS C

**Course Number:** C-420-2013
**Location:** Air Technical Training Center, Lakehurst, NJ.
**Length:** 6-7 weeks (240-279 hours)

**Exhibit Dates:** 4/65-Present.

**Objectives:** To train enlisted personnel to operate radiosonde and rawinsonde upper-air equipment.

**Instruction:** Lectures and practical exercises in radiosonde and rawinsonde upper-air equipment operation, upper-air data evaluation, winds aloft computation, radiosonde recorders, preventative maintenance and calibration procedures, flight preparation and launching of radiosonde equipment, radiosonde transmitter principles, and meteorological data evaluation procedures.

**Credit Recommendation:** In the uppereclusion navigation category, credit in weather forecasting techniques on the basis of institutional examination (4/74).

NV-1606-0028
AVIATION ANTI-SUBMARINE WARFARE (AAWS) FOR FIRST TOUR PILOTS, P3C

**Course Number:** E-2D-070.
**Location:** Fleet Aviation Specialized Operational Training Group, Pacific, Moffett Field, CA.
**Length:** 3 weeks (91 hours)

**Exhibit Dates:** 8/72-Present.

**Objectives:** To train pilots in air anti-submarine warfare in P3C (land-based ASW) aircraft. Topics include oceanography and underwater acoustics, tactical maneuvering of aircraft engaged in ASW, ASW sensors and related equipment, and electronic warfare concepts.

**Credit Recommendation:** No credit because of the limited nature of the course (5/74).

NV-1606-0029
RAWIN SET OPERATOR, CLASS C

**Course Number:** Not available.
**Location:** Air Technical Training Center, Lakehurst, NJ.
**Length:** 5 weeks (200 hours)

**Exhibit Dates:** 3/55-12/68.

**Objectives:** To train experienced and enlisted personnel with radiosonde experience to operate and maintain
aerometeorological equipment and to evaluate meteorological data.

**Instruction:** Lectures and practical exercises in radiosonde data evaluation, rawin set theory and associated equipment operation, preflight ground equipment check, radiosonde assembly launching procedures, and data evaluation.

**Credit Recommendation:** In the upper-division baccalaureate category, credit in weather forecasting techniques on the basis of institutional examination (12/68).

**NV-1606-0030**

**PHOTOGRAPHIC INTELLIGENCEMAN (PT).**

**(PHOTOGRAPHIC INTERPRETATION/RADAR TARGET ANALYSIS)**

**Course Number:** A-242-0010

**Location:** Intelligence School, Washington, DC.

**Length:** 14-16 weeks (420-480 hours).

**Objectives:** To train enlisted personnel in air intelligence, photographic interpretation, and radar target analysis.

**Instruction:** Lectures and practical exercises in photography and photographic interpretation, charts, metrics, target analysis, radar and radar target analysis, and operational and intelligence planning.

**Credit Recommendation:** In the upper-division baccalaureate category, 6 semester hours in photographic interpretation (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in photographic interpretation (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in photographic interpretation (5/74).

**NV-1606-0031**

**ADVANCED NAVIGATION TRAINING (STUDENT NAVAL FLIGHT OFFICER).**

**Course Number:** Q-2D-0023

**Location:** Aviation Training Center, Pensacola, FL.

**Length:** 9 weeks (311 hours).

**Exhibit Dates:** 3/73-Present.

**Objectives:** To train prospective C-121 pilots and plane commanders in ground and flight training, including use of the operational flight simulator and normal and emergency flight procedures.

**Instruction:** Lectures and practical exercises in C-121 ground and flight techniques, including use of the operational flight simulator and normal and emergency flight procedures.

**Credit Recommendation:** No credit because of the limited technical nature of the course (12/68).

**NV-1606-0032**

**ADVANCED NAVIGATION TRAINING (POSTGRADUATE NAVAL AVIATOR).**

**Course Number:** None.

**Location:** Aviation Training Center, Pensacola, FL.

**Length:** 6 weeks (178 hours).

**Exhibit Dates:** 3/73-Present.

**Objectives:** To train personnel in advanced navigation.

**Instruction:** Lectures and practical exercises in advanced navigation, including emergency, day-flight, night-flight, patrol-flight and extended-flight procedures; briefs, debriefs, and flight planning; celestial navigation; advanced navigation techniques; synthetic navigation training; and electronic navigation systems.

**Credit Recommendation:** In the upper-division baccalaureate/associate degree category, 3 semester hours in navigation (6/74).

**NV-1606-0033**

**ADVANCED NAVIGATION TRAINING (POSTGRADUATE COAST GUARD AVIATOR).**

**Course Number:** None.

**Location:** Aviation Training Center, Pensacola, FL.

**Length:** 8 weeks (261 hours).

**Exhibit Dates:** 3/73-Present.

**Objectives:** To train personnel in advanced navigation.

**Instruction:** Lectures and practical exercises in advanced navigation, including emergency, day-flight, patrol-flight, extended-flight procedures; briefs, debriefs, and flight planning; celestial navigation; advanced navigation techniques; synthetic navigation training; and electronic navigation systems.

**Credit Recommendation:** In the upper-division baccalaureate/associate degree category, 3 semester hours in navigation (6/74).

**NV-1606-0034**

**PILOTS C-121 SIMULATOR AND ADVANCED FLIGHT.**

**Course Number:** D-2B-012.

**Location:** Oceanographic Air Survey Unit, Patuxent River, MD.

**Length:** 6 weeks (180 hours).

**Exhibit Dates:** 12/66-12/68.

**Objectives:** To train prospective C-121 pilots and plane commanders in ground and flight training, including use of the operational flight simulator and normal and emergency flight procedures.

**Instruction:** Lectures and practical exercises in C-121 ground and flight techniques, including use of the operational flight simulator and normal and emergency flight procedures.

**Credit Recommendation:** No credit because of the limited technical nature of the course (12/68).

**NV-1606-0035**

**PILOTS C-121 SIMULATOR AND BASIC FLIGHT.**

**Course Number:** D-2B-013.

**Location:** Oceanographic Air Survey Unit, Patuxent River, MD.

**Length:** 3 weeks (90 hours).

**Exhibit Dates:** 12/66-12/68.

**Objectives:** To train prospective C-121 pilots in basic C-121 ground and flight procedures.

**Instruction:** Lectures and practical exercises in basic C-121 ground and flight procedures, including use of the C-121 operational flight simulator, ground handling characteristics, and normal and emergency flight procedures.

**Credit Recommendation:** No credit because of the limited technical nature of the course (12/68).

**NV-1606-0036**

**FLEET Replacement RADAR NAVIGATOR (BOMBARDIER NAVIGATOR).**

**Course Number:** Not available.

**Location:** Naval Air Station, Whidbey Island, WA.

**Length:** 16-20 weeks (552-698 hours).

**Exhibit Dates:** 1/63-Present.

**Objectives:** To train commissioned officers as fleet replacement radar navigators.

**Instruction:** Lectures and practical exercises in the duties of fleet replacement radar navigators. Course includes radar navigation, communications, navigation equipment, celestial navigation, sextant usage, flight patterns, and electronic warfare.

**Credit Recommendation:** In the upper-division baccalaureate/associate degree category, 5 semester hours in navigation (7/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in navigation (12/68).

**NV-1606-0037**

**PROSPECTIVE PHASE I CV (JET) (TF/AF-9J) TACTICAL FLIGHT INSTRUCTOR.**

**Course Number:** Not available.

**Location:** Air Advanced Training Command, Corpus Christi, TX.

**Length:** 10-weeks (129 hours).

**Exhibit Dates:** 8/63-12/68.

**Objectives:** To train pilots as tactical flight instructors in TF/AF-9J aircraft.

**Instruction:** Lectures and practical exercises in the duties of a tactical flight instructor. Course includes: instruments, formation, navigation, flight operations, weapons, and carrier qualifications.

**Credit Recommendation:** No credit because of the military nature of the course (7/74).

**NV-1606-0038**

**PROSPECTIVE ADVANCED NAVIGATION FLIGHT INSTRUCTOR.**

**Course Number:** Q-2D-0064.

**Location:** Air Advanced Training Command, Corpus Christi, TX.

**Length:** 11-16 weeks (95-151 hours).

**Exhibit Dates:** 9/63-12/68.

**Objectives:** To train naval aviators and observers as flight instructors.

**Instruction:** Lectures and practical exercises in flight instructor training, including navigation training, instruments, formation, flight rules and regulations, meteorology, engineering, and synthetic instrument training.

**Credit Recommendation:** No credit because of the military nature of the course (7/74).

**NV-1606-0039**

**PROSPECTIVE TF/AF-9J FLIGHT INSTRUCTOR.**

**Course Number:** Not available.

**Location:** Naval Air Station, Corpus Christi, TX.

**Length:** 10 weeks (167-190 hours).

**Exhibit Dates:** 5/69-Present.

**Objectives:** To train flight instructors in TF/AF-9J aircraft.

**Instruction:** Lectures and practical exercises in TF/AF-9J aircraft, including basic.
instruments, instrument navigation, formation, night flight, operational navigation, air-to-ground weapons, tactics, and carrier qualification.

Credit Recommendation: No credit because of the military nature of the course.

NV-1606-0040

PROSPECTIVE VA (PROP) TACTICAL FLIGHT INSTRUCTOR

Course Number: Not available.
Location: Air Advanced Training Command, Corpus Christi, TX.
Length: 12 weeks (287 hours).
Exhibit Dates: 1/65-12/68.
Objectives: To train flight instructors in VA (Prop) tactical flight training.

Instruction: Lectures and practical exercises in VA (Prop) flight training, including formation, tactics, weapons, and navigation on the T-28 and A-1H aircraft.

Credit Recommendation: No credit because of the military nature of the course.

NV-1606-0041

PROSPECTIVE PHASE II CV (JET) (F11A) TACTICAL FLIGHT INSTRUCTOR

Course Number: Not available.
Location: Air Advanced Training Command, Corpus Christi, TX.
Length: 10 weeks (72 hours).
Exhibit Dates: 12/63-12/68.
Objectives: To train flight instructors in F-11A jet aircraft.

Instruction: Lectures and practical exercises in flight procedures for F-11A jet aircraft, including formation, tactics, air-to-air weapons, ground-controlled intercept procedures, night flying, instrumentation, and high-altitude navigation.

Credit Recommendation: No credit because of the military nature of the course.

NV-1606-0042

FLIGHT INSTRUCTOR INDOCTRINATION GROUP

Course Number: Not available.
Location: Air Basic Training Command, Pensacola, FL.
Length: 3 weeks (91 hours).
Exhibit Dates: 7/64-12/68.
Objectives: To train aviators as flight instructors.

Instruction: Lectures and practical exercises in flight instruction procedures, including instructional methods, learning principles, testing methods and score interpretation, flight psychology, counseling, oral communications, and applied aerodynamics (basic physics, various theories and equations, spins and stalls, helicopter flight, jet engine theory and components, reciprocating engines, various curves, take-off and landing problems, stability, and control systems).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in instructional methods (12/68).

NV-1606-0043

P3C TACTICAL COORDINATOR POSITIONAL TRAINING FOR NAVAL FLIGHT OFFICERS

Course Number: E-2D-0075.
Location: Fleet Aviation, Specialized Operational Training Group, Pacific, Moffett Field, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 10/72-Present.
Objectives: To provide P3C flight officers with tactical training in antisubmarine warfare.

Instruction: Lectures and practical exercises on P3C aircraft tactical coordinator positional training, including armament/ordnance, weapons, electronic warfare, TACCO station hardware and software, TACCO station familiarization, recovery, tactical navigation, steering/splashing points, autonavigation, simulation, initialization, and multipurpose display; switch functions; specific laboratory; and practical trainer brief and debrief.

Credit Recommendation: No credit because of the military nature of the course.

NV-1606-0044

NAVIGATION FLIGHT TRAINING, NAVAL AVIATION AND NAVAL FLIGHT OFFICER (NAVIGATION FLIGHT TRAINING, PILOT AND NAVAL AVIATION OFFICER (NAVIGATOR))

Course Number: None.
Location: Air Advanced Training Command, Corpus Christi, TX.
Length: 3-4 weeks (55-80 hours).
Exhibit Dates: 5/63-Present.
Objectives: To train pilots and flight officers to perform the duties of aerial navigators.

Instruction: Lectures and practical exercises in the duties of an aerial navigator. Course includes radio navigation, celestial navigation, dead reckoning, plotting, electronic warfare navigation, radar navigation, and flight planning.

Credit Recommendation: In the vocational certificate category, 2 semester hours in navigation (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in navigation (8/74).

NV-1606-0045

NAVIGATION FLIGHT TRAINING, NAVAL AVIATION AND NAVAL FLIGHT OFFICER (NAVIGATION FLIGHT TRAINING, PILOT AND NAVAL AVIATION OFFICER (NAVIGATOR))

Course Number: None.
Location: Air Basic Training Command, Pensacola, FL.
Length: 14-16 weeks (543-582 hours).
Objectives: To train enlisted personnel in aviation and aircraft fundamentals.

Instruction: All Versions: Lectures and practical exercises in aviation and aircraft fundamentals, including mathematics, physics, navigation, aviation psychology, behavior fundamentals, leadership training, naval history, military justice, physical fitness, survival training, and principles of flight. Version 1: Included: Navigation, air intelligence, and personnel administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in navigation.
I-104  COURSE EXHIBITS

NV-1606-0047

1. FLIGHT SYSTEMS
   (FLIGHT PREPARATION, OFFICER)
   (PRE-FLIGHT, OFFICER)

2. PRE-FLIGHT, OFFICER

   Course Number: None.
   Location: Air Basic Training Command, Pensacola, FL.
   Length: 4–10 weeks (130–375 hours).

Objectives: To train personnel in aviation and aircraft fundamentals.

Instruction: Lectures and practical exercises in aviation and aircraft fundamentals, including mathematics, physics, night vision, and elementary physiology, human behavior fundamentals, leadership training, naval history, military justice, physical fitness, survival training, and principles of flight. Version 2: To include: navigation, air intelligence, and personnel administration.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in navigation (8/74). Version 2: In the lower-division baccalaureate/associate degree category, 1 semester hour in navigation (8/74).

NV-1606-0048

PRIMARY PHASE, BASIC PILOT TRAINING

Course Number: None.
Location: Air Basic Training Command, Pensacola, FL.
Length: 8–9 weeks (42–56 hours).
Exhibit Dates: 1/60–Present.

Objectives: To train basic aviators to fly T-34 aircraft.

Instruction: Lectures and practical exercises in T-34 aircraft flight training, including basic flight training, maneuvers, flight rules, aerobatics, stalls, spins, and emergency procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aeronautics (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aeronautics (8/74).

NV-1606-0049

BASIC PHASE, PILOT TRAINING

Course Number: None.
Location: Air Basic Training Command, Pensacola, FL.

Objectives: To train personnel who have completed primary pilot training to fly high-performance aircraft.

Instruction: Lectures and practical exercises in high-performance aircraft flight training, including flight maneuvers, basic instrument flight, radio navigation, formation flight, aerodynamics, communications, aircraft systems, flight rules, meteorology, navigation, and weapon systems.

Credit Recommendation: Version 1: In the vocational certificate category, 1 semester hour in aeronautics, 1 in communication (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aeronautics, 2 in communication (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aeronautics, 2 in navigation (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aeronautics, 2 in navigation (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aeronautics, 2 in navigation (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aeronautics, 2 in navigation (8/74).

NV-1606-0050

ADVANCED PHASE, PILOT TRAINING

Course Number: None.
Location: Air Advanced Training Command, Corpus Christi, TX.
Length: 10–23 weeks (223–953 hours).
Exhibit Dates: 1/54–Present.

Objectives: To train pilots to be fully qualified fleet pilots.

Instruction: Lectures and practical exercises in forming flying, flight tactics, advanced navigation, weapons and warfare, instrument flight, aerodynamics, meteorology, and combat operations.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aeronautics, 1 in navigation, 1 in aeronautics (8/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aeronautics, 1 in navigation, 1 in aeronautics (8/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in aeronautics, 1 in navigation, 1 in aeronautics (8/74).

NV-1606-0051

AVIATION FLEET PREPARATORY COURSE I AND II, CLASS P

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 4–5 weeks (193–240 hours).
Exhibit Dates: 8/70–Present.

Objectives: To provide enlisted personnel with training in fleet aviation operations.

Instruction: Lectures and practical exercises in fleet operations, including organization and familiarization; aircraft squadrons; aircraft carriers; air department division, survival and emergency equipment; personnel and aircraft survival; fire fighting and crush rescue; handtools and hardware; navigation maintenance procedures; aircraft familiarization; basic aircraft systems; aircraft handling; and aircraft maintenance.

Credit Recommendation: No credit because of the limited military nature of the course (6/74).

NV-1606-0052

RADIOSONDE SET OPERATOR, CLASS C

Course Number: Not available.
Location: Air Technical Training Unit, Lakehurst, NJ.
Length: 3 weeks (120 hours).
Exhibit Dates: 7/56–12/68.

Objectives: To train the radio aerographer's mates and enlisted personnel to operate and maintain balloon-carried radiosonde transmitters and to interpret meteorological data.

Instruction: Lectures in radiosonde ground equipment components, operation, alignment, and calibration procedures; flight equipment principles of operation, maintenance, alignment, and calibration; aerological data evaluation; and in-flight, release, and data-forwarding procedures.

Credit Recommendation: In the upper-division baccalaureate/associate degree category, credit in weather forecasting techniques on the basis of institutional examination (12/68).

NV-1606-0053

E-1B AIRCRAFT PILOT TRAINING

Course Number: D-2B-0016.
Location: Carrier Airborne Early Warning Training Squadron 120, Norfolk, VA.
Length: 16 weeks (160 hours).
Exhibit Dates: 2/74–Present.

Objectives: To train aviators to pilot the E-1B aircraft.

Instruction: Lectures and flight exercises in formation flying, instrument familiarization, and carrier operations.

Credit Recommendation: No credit because of the limited technical nature of the course (6/75).

NV-1606-0054

E-2B AIRCRAFT PILOT TRAINING

Course Number: D-2B-0015.
Location: Carrier Airborne Early Warning Training Squadron 120, Norfolk, VA.
Length: 16 weeks (425 hours).
Exhibit Dates: 2/74–Present.

Objectives: To train aviators to pilot the E-2B aircraft.

Instruction: Lectures and flight exercises in formation flying, instrument familiarization, and carrier operations.

Credit Recommendation: No credit because of the limited technical nature of the course (6/75).

NV-1606-0055

RESERVE AIR INTELLIGENCE (RAI)

Course Number: J-3A-0555; K-3A-5011; K-3A-527.
Location: Fleet Intelligence Training Center, Pacific, San Diego, CA.
Length: 2 weeks (100 hours).
Exhibit Dates: 7/71–Present.

Objectives: To provide reserve officers with training in the fundamentals of air intelligence.

Instruction: Specialized training and practical exercises in the air intelligence environment; identification of foreign weapon systems; methods of collecting and reporting intelligence data; and related topics such as electronic warfare, aerial maps, etc.

Credit Recommendation: No credit because of the limited technical nature of the course (6/75).

NV-1606-0056

RESERVE BASIC INTELLIGENCE TRAINING

SUBJECTS (BITCS)

Course Number: K-3A-5010; K-3A-526.
Location: Fleet Intelligence Training Center, Pacific, San Diego, CA.
Length: 2 weeks (68 hours).
Exhibit Dates: 7/71–Present.
Objectives: To provide entry-level training to commissioned or reserve officers in the area of intelligence.

INSTRUCTION: Instruction includes discussions on the intelligence environment, intelligence methods, photographic intelligence, including image interpretation; and other related topics, such as security, naval messages, operation plans and orders, and electronics countermeasures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in intelligence or electronics countermeasures.

NV-1606-0057
S-3A COPILOT AVIONICS

Course Number: E-2A-0018.
Location: Fleet Aviation Specialized Operational Training Group, North Island, CA.
Length: 6 weeks (187 hours).
Exhibit Dates: 5/74-Present.
Objectives: To prepare pilots for S-3A mission training in the replacement squadron (VS-41).

Institution: Lectures and practical exercises in navigation systems, communications, and electronic surveillance measures.

Credit Recommendation: No credit because of the limited technical nature of the course (6/75).

NV-1606-0058
AVIATION FLEET PREPARATORY COURSE I.

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 4-6 weeks (193-240 hours).
Exhibit Dates: 7/72-Present.
Objectives: To provide enlisted personnel with training in fleet aviation operations.

Instruction: Lectures and practical exercises in aviation operations, including organization and familiarization; aircraft squadrons; aircraft carriers; air department divisions; survival and emergency equipment; personnel and aircraft survival; firefighting and crash rescue; handtools and hardware; aviation maintenance procedures; aircraft familiarization; basic aircraft systems; aircraft handling; and aircraft maintenance.

Credit Recommendation: No credit because of the military nature of the course (6/74).

NV-1606-0059
AMPHIBIOUS STAFF INTELLIGENCE OFFICER

Course Number: K-3A-5006.
Location: Fleet Intelligence Training Center, Pacific, San Diego, CA.
Length: 2 weeks (56 hours).
Exhibit Dates: 1/73-Present.
Objectives: To provide training in amphibious operations and amphibious-staff intelligence functions.

Instruction: Topics include amphibious orientation, with emphasis on an overall view of composition and organization; intelligence planning; and characteristics of the area of amphibious operations.

Credit Recommendation: No credit because of the limited specialized nature of the course (6/75).

NV-1606-0060
OPERATIONS SPECIALIST, CLASS A1.

Course Number: A-221-0011.
Location: Service School Command, Great Lakes, IL.
Length: 14-15 weeks (442-480 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train personnel to perform duties required in a combat information center.

Instruction: Lectures and practical exercises in procedures used in message communications, radar navigation, radar course plotting, using vector plotting in the operation of radar systems and data interpretation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in navigation practices and 1 in navigation laboratory (9/77).

NV-1701-0001
P-3 AIR CONDITIONING; PRESSURIZATION
AND UTILITIES ORGANIZATIONAL MAINTENANCE

Course Number: C-603-3532.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel to service and maintain aircraft air-conditioning, pressurization, and utility systems.

Instruction: Lectures and practical exercises in the maintenance of aircraft air-conditioning, pressurization, and utility systems. Topics include aircraft air conditioning with high-pressure air and components; and ground air conditioning and ventilation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft air conditioning (6/74).

NV-1701-0002
LITHIUM BROMIDE AIR CONDITIONING

Course Number: A-720-0028; F-652-04.
Location: Submarine School, Groton, CT.
Length: 8 weeks (240-247 hours).
Exhibit Dates: 7/58-Present.
Objectives: To train enlisted personnel to operate, test, maintain, and repair air-conditioning and refrigeration equipment and systems.

Instruction: Lectures and practical exercises in the operation, testing, and repair of air-conditioning and refrigeration equipment and systems, including refrigeration unit components, accessories, and controls; basic mathematics; refrigeration fundamentals; electrical systems in refrigeration; compressors and condensers; air-cooled equipment; water coolers; ice makers; refrigeration and air-conditioning plant operations; and psychrometrics and applications, including ventilation and air purification.

Credit Recommendation: In the vocational certificate category, 20 semester hours in basic refrigeration (6/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in basic refrigeration (6/74).

NV-1701-0006
CENTRIFUGAL AIR CONDITIONING PLANT OPERATIONS AND MAINTENANCE

Course Number: A-720-0025.
Location: Development and Training Center, San Diego, CA.
Length: 2 weeks (60 hours).

Exhibit Dates: 1/69-Present.
Objectives: To train enlisted personnel to operate and maintain aircraft air-conditioning systems.

Instruction: Lectures and practical exercises in the maintenance of aircraft environmental systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aircraft air conditioning (5/74).

NV-1701-0004
110 TON R-11 CENTRIFUGAL AIR CONDITIONING UNIT (YORK)

Course Number: F-652-032.
Location: Submarine School, Groton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 4/72-Present.
Objectives: To train enlisted personnel to operate and perform mechanical maintenance on a centrifugal refrigeration system.

Instruction: Lectures and practical exercises in the maintenance of a centrifugal refrigeration system. Topics include centrifugal compressor and capacity control mechanism construction and operation, and the maintenance procedures involved in the use of the air-purging system.

Credit Recommendation: In the vocational certificate category, 1 semester hour in mechanical maintenance of a centrifugal refrigeration unit (5/74).
COURSE EXHIBITS

Exhibit Dates: 9/73–Present.

Objectives: To train personnel to operate and maintain centrifugal refrigeration and air conditioning equipment.

Instruction: Classroom and practical instruction in the operational characteristics and procedures for centrifugal refrigeration systems, including operation, adjustment, control, and service/repair of centrifugal units and accessory centrifugal equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in plant operation and maintenance (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in plant operation and maintenance (6/75).

NV-1703-0002
ENGINEERING GAS TURBINE ENGINES, CLASS C

Course Number: Not available.

Location: Enginemn School, Great Lakes, IL.

Length: 7–8 weeks (215–250 hours).

Exhibit Dates: 6/63–12/68.

Objectives: To train engineen to supervise turbine component repair.

Instruction: Lectures and practical exercises in basic gas turbine engine principles; operation, and construction; component systems; and specific gas turbine engines operation, adjustment, troubleshooting, components, and accessories.

Credit Recommendation: In the vocational certificate category, 6 semester hours in gas turbines (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical or automotive technology (5/74).

NV-1703-0003
CONSTRUCTION MECHANIC/AUTOMOTIVE TRANSMISSIONS, CLASS C
(CM"C" AUTOMATIC TRANS)

Course Number: A-610-0021.

Location: Construction Training Center, Gulfport, MS; Construction Training Center, Port Hueneme, CA.

Length: 1: Version 1: 8 weeks (240 hours).
Version 2: 5 weeks (160 hours).

Objectives: To train enlisted personnel to test, adjust, and repair automatic transmissions on automotive and construction equipment.

Instruction: All Versions: Lectures and practical exercises in hydraulics, torque converters, planetary gear systems, and automatic transmission control systems theory and principles; theory, operation, disassembly, inspection, repair, assembly, and troubleshooting of powerglide, Ford C-4, Cruise-O-Matic, Allison torqmatic, and International-Hough torque converters and powershift transmissions.
Version 2: Instruction includes Fordomatic two-speed, hydraulic dual range, Allison MT series, and Caterpillar powershift transmissions.

Credit Recommendation: In the vocational certificate category, 8 semester hours in automotive or heavy equipment (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in automotive or heavy equipment (7/74).
Version 2: In the vocational certificate category, 5 semester hours in automotive or heavy equipment (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive or heavy equipment (5/74).

NV-1703-0004
GENERAL MOTORS ENGINES (16-278A)

Course Number: F-652-018.

Location: Submarine School, Groton, CT.

Length: 2 weeks (60 hours).

Exhibit Dates: 11/72–Present.

Objectives: To train enlisted personnel to repair and maintain General Motors Engines.

Instruction: Lectures and practical exercises in the repair and maintenance of General Motors engines, including major engine components and systems; camshafts, timing gears and engine timing procedures; and disassembly, cleaning, inspection, reassembly, and testing of the air blower, cylinder unit, governor and unit injection system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in automotive repair (5/74).

NV-1703-0005
MINE WARFARE ENGINEER BACI B (ENGINEER BACI)

Course Number: A-652-0038.

Location: Mine Warfare School, Charleston, SC.

Length: 3 weeks (90 hours).


Objectives: To train petty officers in diesel engine theory.

Instruction: Lectures and demonstrations in diesel operation and construction, precision measurements, fuel properties, fuel systems, intake and exhaust systems, and piping and valves.

Credit Recommendation: In the vocational certificate category, 3 semester hours in automotive technology and heavy equipment (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive technology and heavy equipment (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in automotive technology and heavy equipment (7/74).

NV-1703-0006
AVIATION SUPPORT EQUIPMENT GASOLINE ENGINE INTERMEDIATE MAINTENANCE

Course Number: C-602-3214.

Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, North Island, CA.

Length: 3 weeks (120 hours).

Exhibit Dates: 5/71–Present.

Objectives: To train enlisted personnel to maintain gasoline engines.

Instruction: Lectures and practical exercises in gasoline engine maintenance, including principles of internal-combustion engines; engine disassembly, inspection, repair, and reassembly; and repair of engine-related subsystems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in engine repair laboratory (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in engine repair laboratory (7/74).

NV-1703-0007
LST 1182 PROPULSION TECHNICIAN, CLASS C

Course Number: A-652-0054.

Location: Service School Command, Great Lakes, IL.

Length: 7 weeks (270 hours).


Objectives: To train personnel to operate and maintain the propulsion systems (ALCO 251-C) installed in the 1182 LST.

Instruction: This course is a combination of A-652-0055, LST 1179-1182 Class Cortrollebl Pitch Propeller and Propulsion Control System (NV-1710-0023); and A-652-0056, ALCO 251-C Diesel Engine (NV-1712-0010). Topics cover the opera-
tion, troubleshooting and maintenance of the specified equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel technology and 2 as electives in automotive/mechanical technology (9/77).

NV-1703-0008
LM2500 GAS TURBINE MODULE
MAINTENANCE, CLASS CI
Course Number: A-652-0072.
Location: Service School Command, Great Lakes, IL.
Length: 5 weeks (187 hours).
Exhibit Dates: 1/76-9/82.
Objectives: To train personnel in the maintenance of the LM2500 gas turbine.

Instruction: Areas of instruction include the LM2500 gas turbine assembly, fuel speed governing systems, lubrication system, electrical system integration, starting system, airflow fundamentals, maintenance and safety practices, servicing, troubleshooting, installing and aligning turbines.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in automotive/mechanical technology (9/77).

NV-1703-0009
SHIP'S SERVICE GAS TURBINE GENERATOR MODULE (ALLISON 501)
MAINTENANCE, CLASS CI
Course Number: A-652-0076.
Location: Service School Command, Great Lakes, IL.
Length: 5 weeks (200 hours).
Exhibit Dates: 12/76-9/82.
Objectives: To provide specific instruction in gas turbine engine operation, inspection and maintenance related to the DD963 class destroyer.

Instruction: Areas of instruction include gas turbine engine operation, construction, cooling, lubrication, trouble identification, inspection and maintenance; gear reduction; generator operation and control; and use of specific inspection equipment and procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in gas turbine engine operation, inspection and maintenance (9/77).

NV-1704-0001
AIR INTERCEPT CONTROL, CLASS O
Course Number: C-22-2014.
Location: Air Technical Training Center, Glyco, GA.
Length: 6–7 weeks (240–264 hours).
Exhibit Dates: 3/65–6/76.
Objectives: To provide commissioned officer, noncommissioned officer, and enlisted personnel with training in air intercept control.

Instruction: Lectures and practical exercises in air intercept control procedures, communications, and equipment use.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1704-0002
AIR INTERCEPT CONTROLLER
Location: Fleet Anti-Air Warfare Training Center, San Diego, CA.
Length: 4–5 weeks (116–158 hours).
Objectives: To train officers and enlisted personnel to control fleet interceptor aircraft in airborne combat situations.

Instruction: Lectures and practical demonstrations in fleet interceptor aircraft operations, including air weapons systems, navigation communications procedures and vocabulary, radar indicator equipment, search and rescue procedures, and intercept control methods and techniques.

Credit Recommendation: No credit because of the military nature of the course (2/74).

NV-1704-0003
AIR TRAFFIC CONTROL OFFICERS, CLASS O
Course Number: C-22-2014.
Location: Air Technical Training Center, Glyco, GA.
Length: 9–10 weeks (360–392 hours).
Exhibit Dates: 8/66–9/82.
Objectives: To train officers to perform as air-traffic controllers and control center officers.

Instruction: Lectures and practical exercises in navigational aids, FAA regulations, air traffic control radar procedures, air traffic control terminal procedures, instrument procedures, and aviation meteorology.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control (3/74).

NV-1704-0004
AIR CONTROLLER, CLASS A
Course Number: C-22-22010.
Location: Air Technical Training Center, Olathe, KS; Air Technical Training Center, Glyco, GA.
Length: 10–14 weeks (400–560 hours).
Exhibit Dates: 3/66–9/82.
Objectives: To qualify enlisted personnel for FAA certification in control tower operations.

Instruction: Lectures and practical exercises in basic air navigation and navigational aids; aviation meteorology; airport traffic control; and air traffic rules and regulations, communication procedures, and radar use.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control (3/74).

NV-1704-0005
AIR INTERCEPT CONTROLLER SUPERVISOR
Course Number: K-2G-363.
Location: Fleet Anti-Air Warfare Training Center, San Diego, CA.
Length: 3 weeks (117 hours).
Objectives: To train air intercept controllers to instruct and supervise personnel in intercept control procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in air traffic control (3/74) and 1 in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (6/74).

NV-1704-0006
ANTISUBMARINE AIR CONTROL
Course Number: J-22-0321, K-00-1013.
Location: Fleet Antisubmarine Warfare School, San Diego, CA.
Length: 4 weeks (151 hours).
Exhibit Dates: 2/72–Present.
Objectives: To train prospective antisubmarine air controllers in fixed-wing and helicopter control.

Instruction: Lectures and practical exercises in antisubmarine air control procedures and communications, IFR control procedures, air and surface-to-air emergency procedures, underwater acoustics, Soviet submarine intelligence and submarine capabilities, surface search plans, and coordinated ASW operations.

Credit Recommendation: No credit because of the limited technical nature of the course (2/74).

NV-1704-0007
AIR CONTROLLER, CLASS B
Course Number: None.
Location: Version 1: Air Technical Training Center, Glyco, GA; Version 2: Air Technical Training Center, Olathe, KS.
Objectives: To provide control tower operators with advanced training in air traffic control and in personnel management.

Instruction: Lectures and practical exercises in advanced air traffic control techniques and procedures; instrument approach; air navigation; meteorology; and organizational, personnel, and administrative management.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in supervision and management, 1 in air navigation, 15 in air traffic control, 1 in aviation meteorology (3/74). Version 2: No credit—course material obsolete (3/74).

NV-1704-0008
AIR CONTROLLER T (TOWER), CLASS A
Course Number: None.
Location: Air Technical Training Unit, Olathe, KS.
Length: 10 weeks (400 hours).
Objectives: To provide enlisted personnel with the knowledge and skills necessary to qualify for FAA certification as air traffic control tower operators.

Instruction: Lectures and practical exercises in air traffic control, aerial meteorology, control tower communications, aircraft characteristics, and FAA regulations.
1-108 COURSE EXHIBITS

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation meteorology, 4 in air navigation, 18 in air traffic control (3/74); in the upper-division baccalaureate category, credit in air control/tower operations on the basis of institutional examination (12/68).

NV-1704-0009

AIR CONTROLLER W (EARLY WARNING), CLASS A

Course Number: None.

Location: Naval Air Station, Glynnco, GA.

Length: 12 weeks (480 hours).


Objectives: To train enlisted personnel in air traffic control and radar surveillance techniques.

Instruction: Lectures and practical exercises in air traffic control and radar surveillance techniques, including air navigation, electronic fundamentals applicable to radar operations, and communications techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 12 in air traffic control, 2 in navigation (3/74); in the upper-division baccalaureate category, credit in air control tower operations on the basis of institutional examination (12/68).

NV-1704-0010

AIR CONTROLLER (RADAR), CLASS A

Course Number: None.

Location: Air Technical Training Unit, Olathie, KS.

Length: 4 weeks (160 hours).


Objectives: To provide enlisted personnel with training in radar operations applicable to air traffic control.

Instruction: Lectures and practical exercises in air traffic control fundamentals, air navigation, air traffic communications, aircraft characteristics, and radar theory and applications to air traffic control.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in air navigation, 3 in air traffic control (3/74).

NV-1704-0011

AIR CONTROL, CLASS O

Course Number: None.

Location: Naval Air Station, Glynnco, GA.

Length: 5 weeks (200 hours).

Exhibit Dates: 11/56–12/68.

Objectives: To provide chief petty officers and officer personnel with training in all phases of air control.

Instruction: Lectures and practical exercises in air control, credit in air control techniques in anti-submarine operations, offense and defense aircraft operations, jet aircraft familiarization, air control data collection equipment usage, and basic air control procedures and techniques.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1704-0012

CARRIER AIR TRAFFIC CONTROL CENTER CONTROLLER CLASS C/O

Course Number: C-2G-2016.

Location: Air Technical Training Center, Glynnco, GA.

Length: 4 weeks (160–264 hours).

Exhibit Dates: 3/65–Present.

Objectives: To provide officers and air controllers with training in carrier air traffic control center operations.

Instruction: Lectures and practical exercises in carrier air traffic control center equipment and operating procedures, carrier controlled approach, and Naval Tactical Data System (NTDS) console training.

Credit Recommendation: No credit because of the limited technical nature of the course (12/68).

NV-1704-0013

A-7E HYDRAULIC AND PNEUMATIC SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3793.

Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 4 weeks (160 hours).

Exhibit Dates: 10/72–Present.

Objectives: To train maintenance personnel in the techniques, modifications, and servicing procedures applicable to A-7E aircraft control systems.

Instruction: Practical experience in troubleshooting, maintenance, and repair of hydraulic and pneumatic systems.

Credit Recommendation: In the vocational certificate category, credit in hydraulic and pneumatic systems on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in hydraulic and pneumatic systems on the basis of institutional examination (3/74).

NV-1704-0014

KC-135F T-56-A-16 ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR

Course Number: C-601-3507.

Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 4 weeks (160 hours).

Exhibit Dates: 7/68–Present.

Objectives: To provide maintenance personnel with instruction in TF30-P-8/408 aircraft engine maintenance.

Instruction: Lectures and practical exercises in TF30-P-8/408 aircraft engine maintenance, including engine components inspection and repair; engine systems operation; and engine assembly, disassembly, and testing procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in turbine engine laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in turbine engine laboratory (3/74).

NV-1704-0017

P-3 T56-A-10W ENGINE AND RELATED SYSTEMS MAINTENANCE, No. 56

Course Number: Not available.

Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.

Length: 5 weeks (200 hours).

Exhibit Dates: 1/68–Present.

Objectives: To provide maintenance personnel with training in P-3 aircraft power plant and related systems maintenance.

Instruction: Lectures and practical exercises in P-3 aircraft power plant and related systems maintenance, including engine organizational and intermediate maintenance procedures, operating principles, and theory; and propeller and related systems maintenance, installation, inspection, and repair.

Credit Recommendation: In the vocational certificate category, 3 semester hours in power plant organizational maintenance; 1 in power plant intermediate maintenance (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in power plant organizational maintenance; 1 in power plant intermediate maintenance (3/74).
NV-1704-0018

UH-IE T53-L-11 ENGINE ORGANIZATIONAL MAINTENANCE

Objectives: To train maintenance personnel to maintain and repair T53-L-11 aircraft turbine engines.

Instruction: Lectures and practical exercises in T53-L-11 engine organizational maintenance, including engine systems repair and testing; engine construction familiarization; special tools; and engine inspection, disassembly, complete repair, and reassembly.

Credit Recommendation: In the vocational certificate category, 2 semester hours in engine laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in engine laboratory (3/74).

NV-1704-0019

P-3 T56-A-10/14 ENGINE AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE (P-3 T56-A-14 ENGINE AND RELATED SYSTEMS MAINTENANCE)

Objectives: To train maintenance personnel to repair P-3 aircraft power plant and related systems.

Instruction: Lectures and practical exercises in P-3 aircraft power plant and related systems maintenance, including T56-A-14 power plant system maintenance and service, engine diagnosis and troubleshooting, jet engine theory, test equipment operation, and propeller and related systems.

Credit Recommendation: In the vocational certificate category, credit in T56-A-14 engines and related systems maintenance on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in T56-A-14 engines and related systems maintenance on the basis of institutional examination (3/74).

NV-1704-0020

T56-GE-8F ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR

Objectives: To train maintenance personnel to maintain and repair T56-GE-8F turbine engines.

Instruction: Lectures and practical exercises in T56-GE-8F maintenance, including engine systems repair and testing; engine construction familiarization; special tools; and engine inspection, disassembly, complete repair, and reassembly.

Credit Recommendation: In the vocational certificate category, 2 semester hours in engine laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in engine laboratory (3/74).

NV-1704-0021

T58-GE-8B ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR

Objectives: To train maintenance personnel to repair T58-GE-8B turbine engines.

Instruction: Lectures and practical exercises in T58-GE-8B intermediate maintenance, including engine systems familiarization, engine inspection, disassembly, test, repair, and reassembly techniques and procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in engine laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in engine laboratory (3/74).

NV-1704-0022

A-6A AUTOMATIC FLIGHT CONTROL SYSTEM ORGANIZATIONAL MAINTENANCE

Objectives: To train maintenance personnel to maintain, test, and troubleshoot the A-6A automatic flight control system on the organizational maintenance level.

Instruction: Lectures and practical exercises in A-6A automatic flight control system organizational maintenance, including engine data computer operation, general aircraft familiarization, introduction to automatic flight, automatic flight control actuators and signal flow location and functional operation, interlocks and line equipment check-out procedures, and system testing and troubleshooting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in automatic flight control maintenance (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in automatic flight control maintenance (3/74).

NV-1704-0023

A-4E/F/TA-4F AIRCRAFT MECHANIC ORGANIZATIONAL MAINTENANCE

Objectives: To train maintenance personnel to repair T58-GE-8F turbine engines.

Instruction: Lectures and practical exercises in T58-GE-8F maintenance, including engine systems repair and testing; engine construction familiarization; special tools; and engine inspection, disassembly, complete repair, and reassembly.

Credit Recommendation: In the vocational certificate category, 2 semester hours in engine laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in engine laboratory (3/74).

NV-1704-0024

JS2-P408 ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR

Objectives: To train fleet maintenance personnel to maintain and repair JS2-P408 turbine engines.

Instruction: Lectures and practical exercises in turbine engine systems and inspection, disassembly, cleaning, repair, reassembly, and testing of all engine systems.

Credit Recommendation: In the vocational certificate category, credit in JS2-P408 turbine engine maintenance and repair on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in JS2-P408 engine maintenance and repair on the basis of institutional examination (3/74).

NV-1704-0025

UH-IE T53-L-11 ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR

Objectives: To train maintenance personnel to repair T53-L-11 shaft turbine engines.

Instruction: Lectures and practical exercises in engine systems repair and testing; engine construction familiarization; special tools; and engine inspection, disassembly, complete repair, and reassembly.

Credit Recommendation: In the vocational certificate category, 2 semester hours in engine laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in engine laboratory (3/74).
NV-1704-0026

J85-GE-4 ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR

Course Number: None.
Location: Air Maintenance Training Detachment, Meridian, MS.
Length: 3 weeks (120 hours).
Exhibit Dates: 7/69-Present.
Objectives: To train aviation maintenance personnel in the maintenance and repair of the J85-GE-4 engine system.
Instruction: Lectures and practical exercises in the maintenance of J85-GE-4 engine systems, including engine disassembly, reassembly, propeller, and engine systems maintenance and rigging.
Credit Recommendation: In the vocational certificate category, 2 semester hours in advanced avionics and rigging, using J85-GE-4 type aircraft.

NV-1704-0027

T56-A/8A ENGINE AND AEROPRODUCTS A5441FN-248 PROPELLER INTERMEDIATE MAINTENANCE

(T56-A/8 ENGINE AND A6441FN-248 PROPELLER)

Course Number: C-601-3131, C-601-3132, C-601-3133.
Location: Air Maintenance Training Detachment, Imperial Beach, CA; Air Maintenance Training Detachment, Quonset Point, RI; Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, New River, NC.
Length: 2 weeks (80 hours).
Exhibit Dates: 7/68-Present.
Objectives: To train maintenance personnel to maintain and repair T56-A/8 engines.
Instruction: Practical training in the intermediate maintenance, disassembly, inspection, replacement, assembly, and testing of aircraft turbine engines.
Credit Recommendation: In the vocational certificate category, 2 semester hours in the second division of the baccalaureate/associate degree category, 2 semester hours in the second division of the baccalaureate/associate degree category.

NV-1704-0029

T56-A/8A ENGINE AND AEROPRODUCTS A5441FN-248 PROPELLER COMPLETE ENGINE REPAIR

(T56-A/8 ENGINE AND A6441FN-248 PROPELLER)

Course Number: C-601-3134; C-601-74.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 4/68-Present.
Objectives: To provide maintenance personnel with the knowledge and skills to perform intermediate maintenance on the T56-A/8 engine and propeller systems of the E2/C2 type aircraft.
Instruction: Lectures and practical exercises in intermediate levels of maintenance including engine disassembly/reassembly/propeller and propeller system maintenance and rigging, using E2/C2 type aircraft training aids.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in advanced avionics.

NV-1704-0030

F/RF-4B/J HYDRAULIC ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3837.
Location: Air Maintenance Training Detachemnt, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 3 weeks (120 hours).
Exhibit Dates: 5/71-Present.
Objectives: To train maintenance personnel in the maintenance and servicing of hydraulic and pneumatic systems, landing gear, and related systems.
Instruction: Practical experience in the maintenance and servicing of hydraulic systems, pneumatics, landing gear, related systems, and utility, flight, and surface systems.
Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft turbine engine laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic and pneumatic systems (3/74).

NV-1704-0032

CH-53 T-64-GE-413 ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR

Course Number: C-601-3444.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 5/71-Present.
Objectives: To train maintenance personnel in the maintenance and servicing of the CH-53 T-64-GE-413 engine.
Instruction: Lectures and practical exercises in engine familiarization, engine maintenance and complete engine repair, and equipment and applicable maintenance procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft hydraulic and pneumatic systems (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic and pneumatic systems (3/74).

NV-1704-0033

TF30-P-6 INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR

Course Number: None.
Location: Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Lemoore, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 7/68-Present.
Objectives: To train maintenance personnel in the techniques, modifications, and complete engine repairs applicable to the TF30-P-6 type engine.
Instruction: Lectures and practical exercises in power plant sections, engine disassembly, engine assembly, and complete engine repairs.
Credit Recommendation: In the vocational certificate category, 3 semester hours in turbine engine repair (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in turbine engine repair (3/74).

NV-1704-0034

E1B MH-67 AUTOMATIC FLIGHT CONTROL SYSTEM INTERMEDIATE MAINTENANCE

Course Number: None.
Location: Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Norfolk, VA.
Length: 2 weeks (80 hours).
Exhibit Dates: 9/68-Present.
Objectives: To train maintenance personnel in the procedures for maintaining, repairing, and functionally testing the MH-67 automatic flight control system.
Instruction: Lectures and practical exercises in MH-67 autopilot, intermediate maintenance of components and circuitry, testing, and troubleshooting.
Credit Recommendation: In the vocational certificate category, 2 semester hours in autopilot electronics familiarization laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics familiarization laboratory (3/74).

NV-1704-0035

A-4 AUTOMATIC FLIGHT CONTROL SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3724.
Location: Air Maintenance Training Detachment, Kingsville, TX; Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Beaufort, SC.
Length: 2 weeks (80 hours).
Exhibit Dates: 2/72-Present.
Objectives: To train enlisted personnel to repair the automatic flight control system of the A-4 aircraft.
Instruction: Lectures and practical exercises including the theory of operations of automatic flight control system components and control circuits, line testing, and troubleshooting procedures.
Credit Recommendation: In the vocational certificate category, credit in A-4 automatic flight control system organizational maintenance on the basis of institutional examination (2/74); in the lower-division baccalaureate/associate degree category, credit in A-4 automatic flight control system organizational maintenance on the basis of institutional examination (2/74).

NV-1704-0036

E-2A FLIGHT TECHNICIAN ORGANIZATIONAL LEVEL MAINTENANCE, NO. 4

Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 8 weeks (320 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train radar operators in the utilization of equipment to assess performance, isolate faults, and perform in-flight adjustments and maintenance on radar systems.
Instruction: Lectures and practical exercises in radar detection subsystems, naviga-
tion subsystems, communication subsystems, and control and display subsystems of E-2A aircraft.

Credit Recommendation: In the vocational certificate category, 5 semester hours in flight maintenance (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in flight maintenance (3/74).

NV-1704-0037
J60-P-3A/6 ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Meridian, MS.
Length: 6 weeks (64 hours).
Exhibit Dates: 1/71-Present.
Objectives: To train maintenance personnel in the use, repair, and maintenance of J60-P-3A/6 engines.

Instruction: Lectures on engine systems, diagnosis and repair procedures, and practical exercises in engine repair.

Credit Recommendation: In the vocational certificate category, 1 semester hour in J60-P-3A/6 engine intermediate maintenance (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in engine intermediate maintenance (3/74).

NV-1704-0040
RA-5C AIRCRAFT FAMILIARIZATION, No. 2

1. RA-5C SURVIVAL AND ENVIRONMENTAL SYSTEMS ORGANIZATIONAL MAINTENANCE

Objectives: To familiarize pilots with the operation and systems function of multi- role RA-5C aircraft.

Instruction: Lectures and practical experience in power plant, airframes, furnishings, electrical and emergency systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aircraft familiarization (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft familiarization (3/74).

NV-1704-0041
RA-5C STRUCTURES AND HYDRAULIC SUB-SYSTEMS ORGANIZATIONAL MAINTENANCE (RA-5C STRUCTURES AND HYDRAULIC SUB-SYSTEMS)

Objectives: To train maintenance personnel in the repair and maintenance of RA-5C aircraft structures and hydraulic systems.

Instruction: Practical training in repair and maintenance of RA-5C aircraft structures and hydraulic systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in repair and maintenance of RA-5C aircraft structures and hydraulic systems (3/74).

NV-1704-0042
AVIATION BOATSWAIN'S MATE E (AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT), CLASS A (AVIATION BOATSWAIN'S MATE E (EQUIPMENT)), CLASS A

Course Number: C-680-2012.
Location: Air Technical Training Center, Lakehurst, NJ.
Length: 10 weeks (380-384 hours).
Exhibit Dates: 6/65-Present.
Objectives: To train enlisted personnel in the maintenance and repair of aircraft launch and recovery equipment. 

Instruction: Lectures and practical exercises in aviation fundamentals, aircraft carrier fire fighting, hydro pneumatic catapults, and arresting gear, barrier, and optical equipment.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1704-0043
UH-1E AIRFRAME AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE (UH-1E AIRFRAME AND RELATED SYSTEMS INTERMEDIATE MAINTENANCE)

Course Number: C-600-3341.
Location: Air Maintenance Training Detachment, Ellyson Field, FL.
Length: 2-4 weeks (80-160 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train enlisted personnel in the operation, inspection, and repair of airframe and related systems of the UH-1E aircraft.

Instruction: Practical training in maintenance and repair of airframe, landing gear, power train, flight control, rotor, hydraulic and utility systems, and design, construction, furnishings and assembly of utility systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aircraft specialized familiarization (3/74).

NV-1704-0044
TARGET DRONE, CLASS C

Objectives: To inspect and repair RA-5C aircraft structures and hydraulic systems.

Instruction: Practical training in inspection, troubleshooting, and repair of RA-5C aircraft structures and hydraulic systems.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1704-0045
RA-5C POWER PLANTS AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE (RA-5C POWER PLANTS AND RELATED SYSTEMS)

Course Number: C-5601-3741.
NV-1704-0046

DOUGLAS MODEL D-704 AND SARGENT-FLETCHER MODEL 31-300 AIR REFUELING STORES ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3013

Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Beaufort, SC

Exhibit Dates: 1/68-Present

Objectives: To train maintenance personnel to maintain and repair Douglas and Sargent-Fletcher air refueling stores.

Instruction: Lectures and practical exercises in inspection, disassembly, cleaning, repair, and reassembly of the Douglas Model D-704 and Sargent-Fletcher Model 31-300 air refueling stores systems, components, and equipment.

Credit Recommendation: In the vocational certificate category, credit in air refueling stores maintenance on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in airframe and hydraulic maintenance (3/74).

NV-1704-0047

SH-3 AIRFRAMES AND HYDRAULIC SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3396

Location: Air Maintenance Training Detachment, Quonset Point, RI; Air Maintenance Training Detachment, Sanford, FL; Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Dam Neck, VA; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Patuxent River, MD

Exhibit Dates: 1/68-Present

Objectives: To train fleet maintenance personnel to maintain and repair SH-3 helicopters and hydraulic systems.

Instruction: Lectures and practical exercises in removal, replacement, adjustment, and testing of components, and troubleshooting and repair of airframe and hydraulic systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in SH-3 helicopters and hydraulic maintenance (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in airframe and hydraulic maintenance (3/74).

NV-1704-0048

P-3 FLIGHT ENGINEER SYSTEM, No. 6

Course Number: C-6050-3351

Location: Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Patuxent River, MD

Exhibit Dates: 1/68-Present

Objectives: To train flight crews in P-3 system and subsystem operations, in-flight maintenance, and procedures.

Instruction: Lectures and practical exercises in aircraft and electrical systems; power plant and related systems; hydraulic, structure, and pressurization systems; radio and navigation aids; autopilot; and emergency systems.

Credit Recommendation: In the vocational certificate category, credit in P-3 flight engineering on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in P-3 flight engineering on the basis of institutional examination (3/74).

NV-1704-0049

H-53, T-64-GE-6/6A INTERMEDIATE MAINTENANCE SYSTEM COMPLET ENGINE REPAIR

Course Number: None

Location: Air Maintenance Training Detachment, Santa Ana, CA

Exhibit Dates: 7/68-Present

Objectives: To train maintenance personnel to maintain and repair T-64-GE-6 engines at the intermediate level.

Instruction: Lectures and practical exercises in engine familiarization, including torque, compressor, combustion, turbine, and exhaust frame accessory sections; engine related systems, including air flow utilization, lubrication, fuel system, and electrical systems; and engine maintenance and repair.

Credit Recommendation: In the vocational certificate category, 2 semester hours in intermediate maintenance/complete engine repair (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in intermediate maintenance/complete engine repair (3/74).

NV-1704-0050

P-3 HYDRAULICS AND FLIGHT CONTROL SYSTEM MAINTENANCE, No. 10

Course Number: Not available

Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA

Exhibit Dates: 1/68-Present

Objectives: To train maintenance personnel to maintain and repair P-3 aircraft hydraulic and flight control systems at the intermediate and organizational levels.

Instruction: Lectures and practical exercises in diagnosis, troubleshooting, maintenance, and servicing of the P-3 hydraulic power, auxiliary power, landing gear systems, nosewheel steering, brake systems, primary flight controls, flap systems, and tab booster and rudder boost systems.

Credit Recommendation: In the vocational certificate category, credit in P-3 hydraulic and flight control system maintenance on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in P-3 hydraulic and flight control system maintenance on the basis of institutional examination (3/74).

NV-1704-0051

QH-50C AIRFRAME AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: None

Location: Air Maintenance Training Detachment, Dam Neck, VA; Air Maintenance Training Detachment, North Island, CA

Exhibit Dates: 1/68-Present

Objectives: To train maintenance personnel to maintain and repair QH-50C aircraft and related systems.

Instruction: Lectures and practical exercises in QH-50C aircraft maintenance, including airframe and engine familiarity; avionics and target acquisition; and special support equipment maintenance; and airframe, power plant, and related systems inspection, maintenance, repair, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, credit in aircraft maintenance on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in aircraft maintenance on the basis of institutional examination (3/74).

NV-1704-0052

QH-50D AIRFRAME, POWERPLANT AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE (QH-50D AIRFRAME AND RELATED SYSTEM ORGANIZATIONAL MAINTENANCE)

Course Number: None

Location: Air Maintenance Training Detachment, Dam Neck, VA; Air Maintenance Training Detachment, North Island, CA

Exhibit Dates: 1/68-Present

Objectives: To train maintenance personnel to maintain and repair QH-50D aircraft and related systems.

Instruction: Lectures and practical exercises in theory of flight, QH-50D helicopter fundamentals, DASH weapon system operation, aviation publications and forms familiarization, deck handling and special support equipment operation and maintenance, safety procedures, and QH-50D aircraft engine maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in airframe and related systems maintenance (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in airframe and related systems maintenance (3/74).
NV-1704-0054

e-2A AIRCRAFT FAMILIARIZATION (PILOTS)

Course Number: C-604-3461.

Location: Air Maintenance Training Detachment, San Diego, CA.

Exhibit Dates: 10/68-Present.

Objective: To train enlisted personnel to repair HH-2D/SH-2D airframes, hydraulics, flight controls, and rotor systems and components.

Instruction: Lectures and practical exercises in maintenance of helicopter engine, transmission, hydraulic, and flight control systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter systems maintenance (F-111C) in the upper-division bachelor/associate degree category, 2 semester hours in helicopter systems maintenance (F-111C).

NV-1704-0055

J79-GE-8/10 ENGINE INTERMEDIATE MAINTENANCE (J79-GE-8/10 INTERMEDIATE MAINTENANCE)

Course Number: C-601-1029.

Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC.

Exhibit Dates: 10/68-Present.

Objective: To train technicians to repair V-2 aircraft engines.


Credit Recommendation: In the vocational certificate category, 3 semester hours in turbine engine repair (274); in the lower-division baccalaureate/associate degree category, 2 semester hours in turbine engine repair (274).

NV-1704-0061

UH-2A/B POWER PLANT, TRANSMISSION, FUEL, ROTOR AND RELATED SYSTEMS MAINTENANCE

Course Number: None.

Location: Air Maintenance Training Detachment, Lakehurst, NJ; Air Maintenance Training Detachment, Beaufort, SC; Air Maintenance Training Detachment, Shreveport, LA.

Exhibit Dates: 10/66-Present.

Objective: To train enlisted personnel in repair of UH-2A/B helicopter systems and components.

Instruction: Lectures and practical exercises in the maintenance of helicopter power plant, transmission, fuel, rotor, and related systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in rotorcraft turbine engine maintenance and repair (274); in the lower-division baccalaureate/associate degree category, 1 semester hour in rotorcraft systems maintenance and repair (274).
NV-1704-0062
H-53 ROTOR AND RELATED SYSTEMS
ORGANIZATIONAL MAINTENANCE
Course Number: C-601-3441.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/68-9/74.
Objectives: To train enlisted personnel to repair the H-53 rotor system and its components.

NV-1704-0063
H-53 HYDRAULIC SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: None.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-9/74.
Objectives: To train maintenance personnel in the latest maintenance and service procedures for H-53 hydraulic systems.

NV-1704-0064
UH34D AIRFRAME, HYDRAULICS AND FLIGHT CONTROLS
Course Number: None.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-9/74.
Objectives: To train maintenance personnel to repair and service UH34D/helicopter airframe, hydraulics, and flight control systems.

NV-1704-0065
A-4M AIRCRAFT MECHANICS
Course Number: C-600-372.

NV-1704-0066
S-2/D AIRCRAFTS AND HYDRAULICS
SYSTEMS MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Key West, FL.
Length: 2 weeks (80 hours).
Objectives: To provide maintenance personnel with instruction on the maintenance of S-2/D aircrafts and hydraulics systems.

NV-1704-0067
P-3 FLIGHT ENGINEERS OPERATIONAL MAINTENANCE, NO. 5
Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD.
Length: 5 weeks (200 hours).
Objectives: To train flight crewmen in total systems and subsystems operation and in-flight maintenance procedures.

NV-1704-0068
RA-5C ELECTRICAL AND INDICATING SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: C-602-3745.
Location: Air Maintenance Training Detachment, Albany, GA.
Length: 4 weeks (160 hours).
Exhibit Dates: 7/69-9/74.
Objectives: To train maintenance personnel to repair aircraft electrical and indicating systems.

Instruction: Lectures and practical exercises in the organizational maintenance of aircraft electrical and indicating systems, including electrical power systems, lighting...
and radome fold systems, engine instruments and control systems; and hydraulic and pneumatic power systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (3/74).

NV-1704-0070
AVIATION ELECTRICIAN'S MATE M
(ELECTRICIAN), CLASS A
(AVIONIC ELECTRICIAN CONVERSION)

Course Number: None.
Location: Air Technical Training Center, Jacksonville, FL.
Length: Version 1: 1/8 weeks (800 hours); Version 2: 1/2 weeks (600-732 hours).
Objective: To train enlisted personnel to inspect, test, and repair aircraft instruments, and electrical systems.

Instruction: All Versions: Lectures and practical exercises on fundamentals and DC circuits, vacuum tubes, rectifiers, filters, amplifiers, basic test instruments, DC and AC machinery and systems, electrical tests and troubleshooting, electrical components, wiring diagrams, and lighting circuits. Version 1: Includes airman training, basic math and physics, and hand tools and laying.

Credit Recommendation: Version 1: In the vocational certificate category, 5 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity for electronics majors; 4 for non-electronics majors (3/74); in the upper-division baccalaureate category, 3 semester hours in electricity, and credit in electrical laboratory on the basis of institutional examination (12/68). Version 2: In the vocational certificate category, 9 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity for non-electronics majors; 6 for non-electronics majors (3/74); in the upper-division baccalaureate category, 3 semester hours in electricity, and credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1704-0071
KC-130F ELECTRICAL SYSTEMS
(600) ORGANIZATIONAL MAINTENANCE
(KC-130F ELECTRICAL SYSTEMS AND CIRCUITS MAINTENANCE)

Course Number: Not available.
Location: Air Maintenance Training Detachment, El Toro, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objective: To train maintenance personnel to operate, maintain, and service aircraft electrical systems.

Instruction: Lectures and practical exercises in aircraft electrical systems operation, maintenance, and servicing, including power supply, wiring distribution, lightning starters, hydraulic controls, instruments, and DC and AC power distribution, electrical system, utility circuits, components, power plant, and propulsion systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical systems (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical systems (3/74).

NV-1704-0072
P-3 ELECTRICAL SYSTEMS INTERMEDIATE MAINTENANCE

Course Number: C-102-3560.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 3/73-Present.
Objective: To train enlisted personnel to maintain, operate, and service aircraft electrical systems at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of the P-3 aircraft electrical systems, including lighting, indicators, propeller synchromeshing systems, generators, voltage regulators, oscilloscope, and controls.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

NV-1704-0073
P-3 ELECTRICAL SYSTEM ORGANIZATIONAL MAINTENANCE
(P-3 ELECTRICAL SYSTEM MAINTENANCE, NO. 12)

Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 4-5 weeks (160-200 hours).
Exhibit Dates: 1/68-Present.
Objective: To train enlisted personnel to operate, maintain, and service aircraft electrical systems.

Instruction: Lectures and practical exercises in aircraft electrical systems operation, maintenance, and servicing, including power supply, wiring distribution, lightning starters, hydraulic controls, instruments, flight controls, circuit analysis, and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

NV-1704-0074
F-4J CNI LINE TROUBLESHOOTING MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 4 weeks (160 hours).
Exhibit Dates: 3/71-Present.
Objective: To train maintenance personnel to operate and maintain the F-4B CNI line systems.

Instruction: Lectures and practical exercises in the operation and maintenance of the F-4B CNI line systems, including block diagram analysis, components, power supply, transceiver, navigation, jet component and navigational computer, basic computer, and transmission system checks.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1704-0077
CH-46A ELECTRICAL AND INSTRUMENT SYSTEMS

Course Number: Not available.
Location: Air Maintenance Training Detachment, Jacksonville, NC; Air Maintenance Training Detachment, Santa Ana, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/68-Present.
Objective: To train maintenance personnel to operate and maintain the CH-46A electrical and instrument systems.

Instruction: Lectures and practical exercises in the operation and maintenance of the CH-46A electrical and instrument systems, including main and auxiliary power systems, DC and AC power supply, starting and control systems, utility systems (light, fire extinguisher, wipers, pedal, heating and ventilation systems, use of associated test equipment, and line maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1704-0075
BA-6C CNI AND DECM ORGANIZATIONAL MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 3 weeks (120 hours).
Exhibit Dates: 9/68-Present.
Objective: To train fleet maintenance personnel to maintain CNI and DECM systems and related test sets.

Instruction: Lectures and practical exercises in communication, navigation, and identification systems familiarization; CNI organizational maintenance; and DECM organizational maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).
1-116  COURSE EXHIBITS  tion, brake, hydraulic, and ice protection), and instruments and indication systems analyses.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1704-0078  A-6A MAINTENANCE SUPERVISORS  FAMILIARIZATION

Course Number: C-000-3763.

Location: Air Maintenance Training Detachment, North Neck, VA; Air Maintenance Training Detachment, Whidbey Island, WA.

Length: 2 weeks (80 hours).

Exhibit Dates: 8/70-Present.

Objectives: To familiarize supervisory personnel with the systems of the A-6A aircraft.

Instruction: Lectures and practical exercises in the operation of the A-6A aircraft, including system familiarization, analysis of hydraulic power and distribution, power plant and fuel systems, environmental systems, navigational and attack systems, and plant maintenance techniques.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1704-0079  A-7 ELECTRICAL AND INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/71-Present.

Objectives: To train maintenance personnel to maintain and operate the electrical and instrument systems of the A-7 aircraft.

Instruction: Lectures and practical exercises in the maintenance and operation of the electrical and instrument systems of the A-7 aircraft, including power supply and distribution, engine and related circuitry, aircraft fuel circuits, electrically controlled hydraulic systems, lighting circuits, approach-attitude indication and compensation, air data computer, and instrumentation.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1704-0080  A-7E ELECTRICAL AND INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3791.

Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 2 weeks (80 hours).

Exhibit Dates: 7/70-Present.

Objectives: To train maintenance personnel to operate and maintain the electrical and instrument systems of the A-7E aircraft.

Instruction: Lectures and practical exercises in power distribution and electrical power supplies, aircraft instrument and lighting systems, electrohydraulic and utility systems, and power plant-related systems.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1704-0081  E-2A AVIATION ELECTRICIAN ORGANIZATION  A MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, North Island, CA.

Length: 4 weeks (160 hours).

Exhibit Dates: 4/68-Present.

Objectives: To train aviation electricians to troubleshoot, repair, and maintain the electrical systems of E-2A aircraft.

Instruction: Lectures and practical exercises in the troubleshooting, repair, and maintenance of the electrical systems of E-2A aircraft, including AC and DC power distribution systems, motors and generators, limited electronic circuit theory, utility and environmental systems, flight control systems, engine electric systems, automatic flight control system operation, pitch feel system, maximum rudder system, air data computer, and compass and inertial navigation systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional examination (4/74).

NV-1704-0082  SP-2H SYSTEMS FAMILIARIZATION, PLANE CAPTAINS

Course Number: Not available.

Location: Air Maintenance Training Detachment, Jacksonville, FL.

Length: 5 weeks (192 hours).

Exhibit Dates: 2/68-Present.

Objectives: To train plane captains to operate SP-2H aircraft systems.

Instruction: Lectures and practical exercises in the operation of SP-2H aircraft systems, including DC electrical distribution system, power plants and related systems, aircraft fuel circuits, engine starter and fire detection, propeller control system, and armament systems operation.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

NV-1704-0083  SH-3A ELECTRICAL SYSTEMS MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, North Island, CA.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel to maintain and service the electrical systems of the SH-3A helicopter.

Instruction: Lectures and practical exercises in the maintenance of the electrical systems of the SH-3A helicopter, including AC and DC power systems components and analysis, power plant systems, hydraulic systems, blade fold systems, fuel systems, utility systems, and miscellaneous systems operation and testing.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

NV-1704-0084  A-7 ARMAMENT SYSTEMS MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Lemoore, CA.

Length: 3 weeks (120 hours).

Exhibit Dates: 4/68-Present.

Objectives: To train maintenance personnel to operate and maintain the A-7 armament system.

Instruction: Lectures and practical exercises in the operation and maintenance of the A-7 armament system, including fuselage station, mechanical and electrical armament instruction, wing pylons and associated equipment assembly and installation, armament systems control and sequencing, electrical fuzing system, internal gun system components, and training procedure for the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1704-0085  A-6A ENVIRONMENTAL, ESCAPE AND SURVIVAL SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3763.

Location: Air Maintenance Training Detachment, North Island, WA; Air Maintenance Training Detachment, Whidbey Island, WA.

Length: 3 weeks (120 hours).

Exhibit Dates: 3/68-Present.

Objectives: To train maintenance personnel to operate and maintain the environmental, escape, and survival systems of the A-6A aircraft.

Instruction: Lectures and practical exercises in general aircraft familiarization; inspections, troubleshooting procedures, and maintenance of escape and survival systems, environmental control systems, and oxygen systems; and use of special tools and ground support equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).
Exhibit Dates: 1/70-Present.
Objectives: To train maintenance personnel to maintain electrical and instrument systems of S-2D/E equipment.
Instruction: Lectures and practical exercises in the maintenance and operation of electrical and instrument systems of S-2D/E equipment, including components, operation, and troubleshooting of power supply, engine controls and accessories, structural control, heating and de-icing, fuel control, and light and instrument systems.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).

NV-1704-0087
AVIATION STRUCTURAL MECHANIC H (HYDRAULICS), CLASS B
Course Number: C-602-2018.
Location: Air Technical Training Center, Memphis, Millington, TN.
Length: 12-13 weeks (488-504 hours).
Exhibit Dates: 10/65-Present.
Objectives: To train personnel to perform as aviation hydraulic systems mechanics.
Instruction: Lectures and practical exercises in aircraft repair, including utilization and interpretation of schematic drawings, fundamentals of electricity, technical publications, maintenance management, inspection procedures, corrosion control, aircraft hydraulics, and related maintenance.
Credit Recommendation: In the vocational certificate category, 10 semester hours in aircraft hydraulic systems mechanics (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in aircraft hydraulic systems mechanics (6/75).

NV-1704-0088
A-6A ELECTRICAL SYSTEMS MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 5 weeks (200 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel with knowledge of transistors to test, troubleshoot, and repair electrical and instrument systems of A-6A aircraft.
Instruction: Lectures and practical exercises in the testing, troubleshooting and repair of electrical and instrument systems of A-6A aircraft, including description, operation and components of AC power supply and control, AC/DC power distribution, emergency electrical power, constant speed drive/starter and engine control, fuel, auxiliary instrument, lighting, and remote indication components.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical or electronics laboratory (4/74).

NV-1704-0089
P-3C INTEGRATED ELECTRICAL SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: C-602-3571.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 7 weeks (280 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train maintenance personnel who are familiar with P-3 aircraft systems to inspect, operate, repair, and replace the assemblies and units of the P-3C electrical systems, ASN-84 inertial navigational system, and ASW-31 autopilot.
Instruction: Lectures and practical exercises in the inspection, operation, repair, and replacement of the assemblies and units of the P-3C electrical systems, ASN-84 inertial navigation system, and ASW-31 autopilot, including electrical power, lighting, and engine controls; fuel, oil, propeller, and fire detection systems; instruments, hydraulics; landing gear; ice control systems and miscellaneous circuits; and specific equipment description and component analysis.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).

NV-1704-0090
UH-2C ELECTRICAL SYSTEM ORGANIZATION MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Imperial Beach, CA.
Length: 2-3 weeks (80-120 hours).
Exhibit Dates: 6/75-Present.
Objectives: To train maintenance personnel to maintain and service electrical systems and components of UH-2 helicopters.
Instruction: Lectures and practical exercises in the maintenance of electrical and electronic systems and components of UH-2 helicopters, including components and operation of DC and AC power supply, lighting systems, power plant systems, utility system, engine and flight instruments; and troubleshooting procedures.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).

NV-1704-0091
UH-2A/B ELECTRICAL SYSTEM MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Ream Field, CA; Air Maintenance Training Detachment, Lakehurst, NJ.
Length: 3 weeks (100-104 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train fleet maintenance personnel who have aviation electrical experience and knowledge of transistors to operate and maintain the electrical components of the UH-2A/B helicopter.
Instruction: Lectures and practical exercises in the operation and maintenance of the electrical components of the UH-2A/B helicopter, including AC and DC power supply, lighting systems, related power plant systems components and troubleshooting, utility systems operation, engine and flight instruments, and miscellaneous systems analyses.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).

NV-1704-0092
F-4B ELECTRICAL SYSTEMS ORGANIZATION MAINTENANCE
(F-4B AIRCRAFT ELECTRICAL SYSTEM ORGANIZATIONAL MAINTENANCE)
Course Number: Not available.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 7-8 weeks (280-320 hours).
Exhibit Dates: 10/67-Present.
Objectives: To train enlisted personnel to operate and maintain F-4B aircraft electrical systems.
Instruction: Lectures and practical exercises in the operation and maintenance of F-4B aircraft electrical systems, including functional analysis, systems integration, analysis and components of the automatic flight control system, engine control, navigation, inertial navigation, power generation system, propulsion system, fuel system, and test equipment for electrical and instrument systems.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity, 1 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74).

NV-1704-0093
E-2A ELECTRICAL AND INSTRUMENTS MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train aviation electricians to troubleshoot, repair, and maintain E-2A aircraft electrical and instrument systems.
Instruction: Lectures and practical exercises in the troubleshooting, repair, and maintenance of the electrical and instrument systems incorporated in E-2A aircraft, including AC and DC power systems; utility, environmental, instruments, and miscellaneous systems components and operation; flight controls and related systems; and engine electrical and related systems and subsystems.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).

NV-1704-0094
F-4J ELECTRICAL SYSTEMS ORGANIZATIONAL MAINTENANCE
(F-4J AIRCRAFT ELECTRICAL SYSTEM ORGANIZATIONAL MAINTENANCE)
Course Number: C-602-3815.
Location: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 7-9 weeks (280-376 hours).
Exhibit Dates: 10/67-Present.
Objectives: To train enlisted personnel to maintain the electrical systems in the F-4J aircraft.
1-18 COURSE EXHIBITS

**Instruction:** Lectures and practical exercises in the maintenance of the electrical systems in the F-4J aircraft including functional analysis, operation, systems integration and planned maintenance procedures on the electrical and instrument systems, automatic control system, air data computer set, vertical flight reference system, attitude reference computer set, power generating system, approach power control system, and data link system.

**Credit Recommendation:** No credit because of the limited technical nature of the course (4/74).

**NV-1704-0095**

**OV-10A ELECTRICAL SYSTEMS**

**ORGANIZATIONAL MAINTENANCE**

**Course Number:** Not available.

**Location:** Air Maintenance Training Detachment, C.P. Pendleton, CA.

**Length:** 2 weeks (64 hours).

**Exhibit Dates:** 8/68-Present.

**Objectives:** To train maintenance personnel to operate, troubleshoot, and maintain electrical systems of the OV-10A aircraft.

**Instruction:** Lectures and practical exercises in the operation, troubleshooting, and maintenance of the electrical systems of the OV-10A aircraft, including DC and AC power systems (sources and distribution), lighting systems, instrumentation, power plant electrical systems, hydraulic and control surface systems, and miscellaneous electrical systems.

**Credit Recommendation:** No credit because of the limited technical nature of the course (4/74).

**NV-1704-0096**

**SH-3 AUTOMATIC STABILIZATION EQUIPMENT ORGANIZATIONAL MAINTENANCE**

**Course Number:** C-601-3398.

**Location:** Air Maintenance Training Detachment, Key West, FL; Air Maintenance Training Detachment, Imperial Beach, CA; Air Maintenance Training Detachment, Quantico, RI.

**Length:** 3 weeks (104-120 hours).

**Exhibit Dates:** 9/69-Present.

**Objectives:** To train maintenance personnel to operate and maintain the SH-3 helicopter's automatic stabilization equipment.

**Instruction:** Lectures and practical exercises in the maintenance of the SH-3 helicopter's automatic stabilization equipment, including flight theory, flight controls, primary and auxiliary hydraulic systems and servos, power control, pitch channel, (signal path, vertical gyros, monitor panel, lag-amplifier, and line test set), yaw channel and synchronizer, collective channel, hover indicator, cyclic and collective coupler system and components, and troubleshooting and test procedures.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74).

**NV-1704-0097**

**A-6/KA-6D ELECTRICAL POWER SYSTEMS INTERMEDIATE MAINTENANCE**

**Course Number:** C-602-3762.

**Location:** Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.

**Length:** 2 weeks (64 hours).

**Exhibit Dates:** 3/73-Present.

**Objectives:** To train maintenance personnel to operate and maintain the electrical power generating system of the A-6A/KA-6D aircraft.

**Instruction:** Lectures and practical exercises in the testing and repair of the electrical power generating system of the A-6A/KA-6D aircraft, including review of electrical theory, operation of AC power supply, and control system components, emergency electrical power system, and troubleshooting procedures.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

**NV-1704-0100**

**A-6A ELECTRICAL SYSTEMS ORGANIZATIONAL MAINTENANCE**

**Course Number:** Not available.

**Location:** Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.

**Length:** 6 weeks (240 hours).

**Exhibit Dates:** 2/70-Present.

**Objectives:** To train maintenance personnel who have backgrounds in basic transistors to maintain, test, and troubleshoot the A-6A electrical, instrument, and automatic flight control systems.

**Instruction:** Lectures and practical exercises in the maintenance, testing, and troubleshooting of the A-6A electrical, instrument, and automatic flight control systems, including power supply and control system components and operation (AC and DC systems), fuel management and indicating system; auxiliary systems components, operation and testing; aircraft instrument, environmental control, and compass systems; automatic flight principles, air data computer block diagram and operation, signal flow, interlocks and check-out procedures, and use of test equipment.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

**NV-1704-0101**

**P-3 INTEGRATED ELECTRICAL SYSTEM ORGANIZATIONAL MAINTENANCE**

**Course Number:** C-602-3535.

**Location:** Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.

**Length:** 7 weeks (280 hours).

**Exhibit Dates:** 11/72-Present.

**Objectives:** To train maintenance personnel who are familiar with P-3 aircraft systems and transmitter fundamentals to operate, test, and maintain the P-3 integrated electrical system.

**Instruction:** Lectures and practical exercises in the operation, testing, and maintenance of the P-3 integrated electrical system, including power generation and distribution, control panels and automatic flight control system, attitude-heading reference system, navigational computer operation, instruments and hydraulics, fuel, oil, and pressure systems, and troubleshooting procedures.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).
NV-1704-0102
A-4M ELECTRICAL SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: C-602-3737.
Location: Air Maintenance Training Detachment, Beaufort, SC.
Length: 7 weeks (280 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train maintenance personnel to test and maintain the A-4M aircraft.
Instruction: Lectures and practical exercises in the testing and maintenance of the A-4M aircraft, including electrical and instrument systems, automatic flight control system components and theory of operation, navigational computer components and theory of operation, electrical power system, utility circuits, and troubleshooting procedures.
Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1704-0103
OV-10A FLIGHT CONTROL AND HYDRAULIC SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: C-602-3521.
Location: Air Maintenance Training Detachment, Cope, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 2/69-Present.
Objectives: To train maintenance personnel to operate, troubleshoot, and maintain the flight control and hydraulic systems of specific equipment.
Instruction: Lectures and practical exercises in the operation, troubleshooting, and maintenance of the flight control and hydraulic systems of specific equipment, including various control systems operation and rigging, hydraulic power control, wheel brake system, and aircraft corrosion control.
Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1704-0104
F/RF-4B AIRCRAFT ELECTRICAL SYSTEMS MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, El Toro, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to operate, test, and repair F-4 aircraft electrical systems.
Instruction: Lectures and practical exercises in the operation, testing, and repair of F-4 aircraft electrical systems, including AC and DC electrical generation systems, power control, circuit analysis, flight controls, fuel and oxygen quantity gauging systems, air induction system, test equipment, and troubleshooting techniques.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

NV-1704-0105
AH-1J ELECTRICAL ORGANIZATIONAL MAINTENANCE
Course Number: C-602-3353.
Location: Air Maintenance Training Detachment, Cope, Pendleton, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train maintenance personnel to repair, check, and maintain the AH-1J electrical system.
Instruction: Lectures and practical exercises in the operation and maintenance of the AH-1J electrical system, including DC electrical systems, AC power supply, fuel system and instrument, warning and detection circuits, lighting circuits, and environmental control system.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

NV-1704-0106
F-4B/J EGRESS AND ENVIRONMENTAL CONTROL SYSTEMS ORGANIZATIONAL MAINTENANCE
(F-4B/J EGRESS AND ENVIRONMENTAL CONTROL SYSTEMS MAINTENANCE)
Course Number: C-602-3806.
Location: Air Maintenance Training Detachment, Oceana, VA.
Length: 2 weeks (96 hours).
Exhibit Dates: 10/67-Present.
Objectives: To train maintenance personnel to maintain and service the egress and environmental control systems of the F-4B/J aircraft at the intermediate level.
Instruction: Lectures and practical exercises in the maintenance of the egress and environmental control systems of the F-4B/J aircraft, including egress system, emergency escape, and evacuation equipment, environmental control system, emergency power supply, and environmental control system.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).

NV-1704-0107
SP-2E SYSTEMS FAMILIARIZATION, PLANE CAPTAINS
Course Number: Not available.
Location: Air Maintenance Training Detachment, Jacksonville, FL.
Length: 5 weeks (192 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train plane captains to operate the SP-2E aircraft.
Instruction: Lectures and practical exercises in the operation of the SP-2E aircraft systems, including power plants and related systems breakdown, hydraulics and airframes, power systems and components, flight control systems, electrical systems (including AC and DC power distribution and generator systems), propeller operation, aircraft instrumentation, armament system, and troubleshooting techniques.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

NV-1704-0108
A-6A ELECTRICAL SYSTEMS INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 2 weeks (160 hours).
Exhibit Dates: 3/70-Present.
Objectives: To train maintenance personnel who have had previous training in transistor fundamentals to test, troubleshoot, and repair electrical and instrument systems of the A-6A aircraft at the intermediate level.
Instruction: Lectures and practical exercises in the testing, troubleshooting, and repair of the electrical and instrument systems of the A-6A aircraft, including electrical power systems, auxiliary electrical systems, constant speed drive/starter system operation, MA-1 compass system, and approach power compensator system operation and components.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).

NV-1704-0109
AVIATION SUPPORT EQUIPMENT GTCP-100 AND ENCLOSURES INTERMEDIATE MAINTENANCE
(AVIATION SUPPORT EQUIPMENT GTCP-100 ENGINE INTERMEDIATE MAINTENANCE)
Course Number: C-602-3212.
Location: Air Maintenance Training Detachment, Jacksonville, FL.
Length: 2-3 weeks (80-120 hours).
Exhibit Dates: 9/70-Present.
Objectives: To train aviation support technicians to maintain GTCP-100 engines.
Instruction: Lectures and practical exercises in GTCP-100 engine maintenance, including engine description, cold-section theory, hot-section theory, lubrication system, electrical system, fuel system, air control system, and test equipment operation.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1704-0110
AVIATION SUPPORT EQUIPMENT WEAPONS LOADERS HYDRAULIC SYSTEMS INTERMEDIATE LEVEL MAINTENANCE
Course Number: C-602-3216.
Location: Air Maintenance Training Detachment, Norfolk, VA.
Length: 2 weeks (80 hours).
Objectives: To train aviation support equipment technicians to maintain weapons loaders hydraulic systems at the intermediate level.
Instruction: Lectures and practical exercises in the testing, troubleshooting, and repair of weapons loaders hydraulic systems at the intermediate level.
1-120 COURSE EXHIBITS

AVIATION SUPPORT EQUIPMENT TECHNICIAN, CLASS A (ELECTRICAL SPECIALTY)

Course Number: C-2G-2022; C-221-2013
Location: Air Technical Training Center, Glynco, GA
Length: 2 weeks (80 hours)
Exhibit Dates: 7/11-Present
Objectives: To train line officers and senior radarmen as air intercept controllers.

Instruction: Lectures and practical exercises in air intercept control procedures and techniques, including air intercept control procedures and communications, aircraft operations and weapons systems, practical application of air intercept control procedures, synthetic air intercept control, actual air intercept control, supervision and instruction of air intercept controllers.

Credit Recommendation: No credit because of the military nature of the course (6/74).

AVIATION SUPPORT EQUIPMENT TECHNICIAN, CLASS A (HYDRAULIC SPECIALTY)

Course Number: Not available
Location: Air Technical Training Center, Memphis, TN
Length: 9-12 weeks (376-464 hours)
Exhibit Dates: 5/66-Present
Objectives: To train enlisted personnel as aviation support equipment technicians.

Instruction: Lectures and practical exercises in aviation support equipment operation and maintenance, reciprocating engines and associated equipment, tune-up and inspection techniques, diesel engines and related auxiliary equipment, and compressor operation.

Credit Recommendation: In the vocational certificate category, 6 semester hours in aircraft support (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance technology (5/74).

AVIATION SUPPORT EQUIPMENT TECHNICIAN, CLASS A (MECHANICAL SPECIALTY)

Course Number: Not available
Location: Air Technical Training Center, Memphis, TN
Length: 9-12 weeks (376-464 hours)
Exhibit Dates: 5/66-Present
Objectives: To train enlisted personnel to maintain aviation support equipment.

Instruction: Lectures and practical exercises in aviation support equipment maintenance and administration, including chassis maintenance and metal repair, frames, axles, and similar components; metal working; welding and painting; fluidic systems and brake systems maintenance, and pneumatic and cryogenic systems maintenance.

Credit Recommendation: In the vocational certificate category, 6 semester hours in aircraft support (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aeronautical technology (5/74).

AVIATION SUPPORT EQUIPMENT TECHNICIAN, CLASS B (ELECTRICAL SPECIALTY)

Course Number: C-602-3397
Location: Air Maintenance Training Detachment, Quonset Point, RI; Air Main, Detachment, Quonset Point, RI; Air Main, Detachment, Imperial Beach, CA
Length: 4-5 weeks (144 hours)
Exhibit Dates: 6/71-Present
Objectives: To train maintenance personnel to maintain the electrical systems of SH-3 helicopters.

Instruction: Lectures and practical exercises in the maintenance and repair of the electrical systems of SH-3 helicopters, including power supply system, power plant/main gearbox and related systems, miscellaneous equipment, fuel system, navigation and communication systems, and automatic blading system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrotechnical systems (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aeronautical technology (6/74).

AVIATION SUPPORT EQUIPMENT TECHNICIAN, CLASS B (MECHANICAL SPECIALTY)

Course Number: C-2G-2022; C-221-2013
Location: Air Technical Training Center, Glynco, GA
Length: 2 weeks (80 hours)
Exhibit Dates: 7/11-Present
Objectives: To requalify line officers and senior radarmen as air intercept controllers.

Instruction: Lectures and practical exercises in air intercept control procedures and techniques, including air intercept control procedures and communications, aircraft operations and weapon systems, practical application of air intercept control procedures, synthetic air intercept control, actual air intercept control, supervision and instruction of air intercept controllers.

Credit Recommendation: No credit because of the military nature of the course (6/74).

AVIATION STRUCTURAL MECHANIC, CLASS B (SAFETY EQUIPMENT)

Course Number: C-2G-2021
Location: Air Technical Training Center, Glynco, GA
Length: 4 weeks (160 hours)
Exhibit Dates: 6/71-Present
Objectives: To train line officers and radarmen as air intercept controllers.

Instruction: Lectures and practical exercises in air intercept control procedures and techniques, including air intercept control procedures and communications, aircraft operations and weapon systems, practical application of air intercept control procedures, synthetic air intercept control, actual air intercept control, supervision and instruction of air intercept controllers.

Credit Recommendation: No credit because of the military nature of the course (6/74).

AVIATION STRUCTURAL MECHANIC E (SAFETY EQUIPMENT), CLASS B

Course Number: C-602-2016
Location: Air Technical Training Center, Memphis, Millington, TN
Length: 10-11 weeks (404-420 hours)
Exhibit Dates: 10/65-Present
Objectives: To train personnel to perform as aviation safety equipment mechanics.

Instruction: Lectures and practical exercises in aircraft repair, including utilization and interpretation of schematic drawings, fundamentals of electricity, technical publications, maintenance management, inspection procedures, corrosion control, aircraft presurization, air conditioning, and associated systems; oxygen, fire extinguishing, and life raft release systems; and egress systems.

Credit Recommendation: In the vocational certificate category, 8 semester hours in aircraft safety equipment mechanics (6/76); in the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft safety equipment mechanics (6/76).

AVIATION STRUCTURAL MECHANIC E (SAFETY EQUIPMENT), CLASS C

Course Number: C-2G-2021
Location: Air Technical Training Center, Glynco, GA
Length: 4 weeks (160 hours)
Exhibit Dates: 6/71-Present
Objectives: To train line officers and radarmen as air intercept controllers.

Instruction: Lectures and practical exercises in air intercept control procedures and techniques, including air intercept control procedures and communications, aircraft operations and weapon systems, practical application of air intercept control procedures, synthetic air intercept control, actual air intercept control, supervision and instruction of air intercept controllers.

Credit Recommendation: No credit because of the military nature of the course (6/74).

AVIATION STRUCTURAL MECHANIC E (SAFETY EQUIPMENT), CLASS D

Course Number: C-602-2016
Location: Air Technical Training Center, Memphis, Millington, TN
Length: 10-11 weeks (404-420 hours)
Exhibit Dates: 10/65-Present
Objectives: To train personnel to perform as aviation safety equipment mechanics.

Instruction: Lectures and practical exercises in aircraft repair, including utilization and interpretation of schematic drawings, fundamentals of electricity, technical publications, maintenance management, inspection procedures, corrosion control, aircraft presurization, air conditioning, and associated systems; oxygen, fire extinguishing, and life raft release systems; and egress systems.

Credit Recommendation: In the vocational certificate category, 8 semester hours in aircraft safety equipment mechanics (6/76); in the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft safety equipment mechanics (6/76).
NV-1704-0119
J-52-PS-RA ENGINE INTERMEDIATE MAINTENANCE COMPLETE ENGINE REPAIR

Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Kingsville, TX; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC.

Length: 3 weeks (120 hours).
Exhibit Dates: 3/1-3/20 (Present).

Objectives: To train fleet maintenance personnel in J-52 intermediate maintenance and complete engine repair.

Instruction: Lectures and practical exercises on J-52 intermediate maintenance, including basic engine familiarization; engine disassembly, inspection and repair; assembly, testing; repair and preparation for storage, engine component systems, maintenance and cleaning and inspection methods.

Credit Recommendation: In the vocational certificate category, 4 semester hours in engine maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic familiarization (6/74).

NV-1704-0122
F/RF-4B STRUCTURES AND HYDRAULICS MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, El Toro, CA.

Length: 3 weeks (120 hours).
Exhibit Dates: 3/68-Present.

Objectives: To train maintenance personnel to familiarize aircraft structures and hydraulic systems of the F/RF-4B aircraft in the organizational and intermediate maintenance levels.

Instruction: Lectures and practical exercises in the servicing and maintenance of the structures and hydraulic systems of the F/RF-4B aircraft, including aircraft hydraulic familiarization; introduction and aircraft familiarization; corrosion control, pneumatic, hydraulic, and structural systems, and陵修 and hydraulic systems of the TF41-A-2 engine.

Credit Recommendation: In the vocational certificate category, 4 semester hours in structures and hydraulic maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in structures and hydraulic maintenance (6/74).

NV-1704-0123
TF41-A-2 ENGINE INTERMEDIATE MAINTENANCE COMPLETE ENGINE REPAIR

Course Number: C-601-3136.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 4 weeks (160 hours).
Exhibit Dates: 8/71-Present.

Objectives: To train fleet maintenance personnel to maintain and repair the TF41-A-2 engine.

Instruction: Lectures and practical exercises in TF41-A-2 engine intermediate maintenance, including engine familiarization, start-up, engine control circuit of the GTC.

Credit Recommendation: In the vocational certificate category, 2 semester hours in engine maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft engine familiarization (6/74).

NV-1704-0126
F-4BJ MAINTENANCE SUPERVISOR FAMILIARIZATION

Course Number: C-000-3807.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC.

Length: 2 weeks (72-80 hours).
Exhibit Dates: 11/72-Present.

Objectives: To familiarize and train maintenance supervisors with the F-4BJ aircraft and related systems.

Instruction: Lectures and practical exercises on the F-4BJ aircraft and related systems, including airframe, hydraulics, egress and environmental control systems; missile control systems and related safety information; CNI, ECM, fuel power plant, engine control, navigation, and electrical systems; missile and armament control systems; and introduction to arm lauched weapons.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft systems maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft and systems maintenance (6/74).
C-2A fuel system; and the A644IFN-248
C-2A POWER PLANT AND RELATED SYSTEMS
AVIATION STRUCTURAL MECHANIC H (HYDRAULICS), CLASS A
Course Number: C-602-2017.
Location: Air Technical Training Center, Memphis, TN.
Length: 7-10 weeks (280-400 hours).
Exhibit Dates: 5/56-9/57.
Objectives: To train maintenance technicians to perform as aviation structural mechanics.
Credit Recommendation: In the vocational certificate category, 3 semester hours in aircraft structures shop (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical maintenance (6/74).

AVIATION STRUCTURAL MECHANIC E (SAFETY EQUIPMENT), CLASS A
Course Number: C-602-2015.
Location: Air Technical Training Center, Memphis, TN.
Length: 9 weeks (348-368 hours).
Exhibit Dates: 9/56-10/56.
Objectives: To train enlisted personnel to perform as aviation structural mechanics.
Instruction: Lectures and practical exercises in aircraft structures shop (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft structures shop (6/74).

A-6A HYDRAULICS AND FLIGHT CONTROLS
AVIATION STRUCTURAL MECHANIC S (STRUCTURES), CLASS A
Course Number: C-602-3443.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 5/70-Present.
Objectives: To train maintenance personnel to maintain the H-53 automatic flight control system at the organizational maintenance level.
Instruction: Lectures and practical exercises in the organizational maintenance of the H-53 automatic flight control system, including AFCS maintenance, hydraulic control, stick trim system, power distribution and relay sequence, attitude-indicating system, block-diagram analysis, and line maintenance procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in aircraft control system maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft control system maintenance (6/74).

SH-3A POWER PLANTS AND RELATED SYSTEMS MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Ream Field, CA, Air Maintenance Training Detachment, Key West, FL.
Length: 3 weeks (120 hours).
Exhibit Dates: 11/67-12/68.
Objectives: To train maintenance personnel to maintain and repair SH-3A helicopter power plants and related systems.
Instruction: Lectures and practical exercises on SH-3A power plants and related systems maintenance, including general information, familiarization, preflight, postflight, and periodic inspections and maintenance techniques; removal, installation, and troubleshooting of major components required for organizational maintenance, including aircraft familiarization, hydraulic flight control, aligning gear and related systems, and ground handling.

Credit Recommendation: In the vocational certificate category, 2 semester hours in power plant maintenance laboratory (6/74).
NV-1704-0135
Course Number: C-601-3787
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL
Length: 2 weeks (75-80 hours).
Exhibit Dates: 10/70-Present.
Objectives: To train experienced maintenance personnel in the maintenance, operation, and servicing of A-7A/B power plants and related systems.
Instruction: Lectures and practical exercises in A-7A/B power plants and related systems organizational maintenance, including aircraft fuel systems, engine construction and systems, and propulsion system maintenance.
Credit Recommendation: In the vocational certificate category, 2 semester hours in power plant organizational maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in power plant maintenance laboratory (6/74).

NV-1704-0136
H-46 Stabilization Systems Intermediate Maintenance
Course Number: C-601-3417
Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 9/72-Present.
Objectives: To train experienced maintenance personnel in the maintenance and servicing of H-46 stabilization systems at the intermediate level.
Instruction: Lectures and practical exercises in intermediate maintenance and servicing of H-46 stabilization systems, including stabilization augmentation system, automatic stabilization equipment, automatic speed trim system, and complete intermediate maintenance, troubleshooting, testing, and repair.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical and electromechanical systems (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical and electromechanical systems (6/74).

NV-1704-0137
OV-10A T76-G-10/12 Engine Intermediate/Complete Engine Repair Maintenance
Course Number: C-601-3522
Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Pendleton, CA.
Length: 3 weeks (136 hours)
Exhibit Dates: 8/69-Present.
Objectives: To train experienced personnel to repair the T76-G-10/12 engine, including intermediate/complete engine repair, engine systems, power management, propeller maintenance, torque-sensing system, engine anti-icing system, fuel system, electrical system, propeller disassembly and assembly, propeller balancing, and inspection and testing.
Credit Recommendation: In the vocational certificate category, 4 semester hours in turboprop engine and propeller maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in turboprop engine and propeller maintenance (6/74).

NV-1704-0138
Aviation Support Equipment Technician Hydraulics and Structures, Class A
Course Number: C-602-2023
Location: Air Technical Training Center, Memphis, TN.
Length: 9 weeks (313-376 hours).
Exhibit Dates: 1/71-Present.
Objectives: To train enlisted personnel with previous technical experience to perform as aviation support equipment technicians (hydraulics and structures).
Instruction: Lectures and practical exercises in aviation support equipment maintenance (hydraulics and structures), including publications and maintenance organization, aviation support equipment fundamentals, materials, troubleshooting, chassis and brake maintenance, metalwork skills, welding, corrosion control, maintenance of fluidic systems, servicing equipment, and line maintenance.
Credit Recommendation: In the vocational certificate category, 3 semester hours in power plant organizational maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in power plant organizational maintenance (6/74).

NV-1704-0139
SH-3D/H Power Plants and Related Systems Organizational Maintenance Course
Course Number: C-601-3399
Location: Air Maintenance Training Detachment, Quonset Point, RI; Air Maintenance Training Detachment, Imperial Beach, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train maintenance personnel to maintain SH-3D and SH-3H aircraft power plants and related systems, including scheduled and unscheduled inspections; system servicing, repair, troubleshooting, and schematic analysis; and specific support equipment.
Instruction: Lectures and practical exercises in maintenance of SH-3D and SH-3H aircraft power plants and related systems. Topics include familiarization with power plants and related systems; removal, inspection, and installation of power plants; and organizational maintenance of transmissions and drive shafts.
Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter power plant laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter power plant laboratory (6/74).

NV-1704-0140
A-7E Powerplant and Related Systems Organizational Maintenance
Course Number: C-601-3386
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 4 weeks (144-180 hours).
Exhibit Dates: 9/72-Present.
Objectives: To train enlisted personnel to maintain the A-7E power plant and related systems.
Instruction: Lectures and practical exercises in the maintenance, operation, and servicing of the A-7E power plant and related systems, and use of tools and special maintenance and test equipment related to organizational maintenance, including aircraft fuel system, engine description and systems, propulsion system maintenance, operating maintenance, and practical training.
Credit Recommendation: In the vocational certificate category, 3 semester hours in power plant organizational maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in power plant organizational maintenance (6/74).

NV-1704-0141
UH-2C, HH-2C and HH-2D Power Plants and Related Systems Organizational Maintenance
Course Number: C-601-3386
Location: Air Maintenance Training Detachment, Imperial Beach, CA.
Length: 3 weeks (96 hours).
Objectives: To train maintenance personnel to maintain helicopter power plants and related systems.
Instruction: Lectures and practical exercises in maintenance of UH-2C, HH-2C and HH-2D power plants and related systems. Topics include familiarization with power plants and related systems; removal, inspection, and installation of power plants; and organizational maintenance of transmissions and drive shafts.
Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter power plant laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter power plant laboratory (6/74).

NV-1704-0142
Aircraft Maintenance Officers, Class O
Course Number: C-402-2010
Location: Air Technical Training Center, Memphis, TN.
Objectives: To train prospective squadron maintenance officers to organize, supervise, and administer aircraft maintenance departments.
1-124 COURSE EXHIBITS

C-2A HYDRAULICS/AIRFRAMES SYSTEM ORGANIZATIONAL MAINTENANCE

(C-2A HYDRAULICS/AIRFRAMES SYSTEM MAINTENANCE)

Course Number: C-602-3494
Location: Air Technical Training Detachment, North Island, CA.
Length: 3-4 weeks (109-120 hours).
Exhibit Dates: 9/67-Present.

Objectives: To train maintenance personnel to maintain C-2A hydraulic and airframe systems at the organizational level.

Instruction: Lectures and practical exercises in the maintenance of C-2A hydraulic and airframe systems. Course includes flight and combined-systems power sections and power control systems, utility systems, slighthing gear, flight controls and structures operation, line maintenance, troubleshooting, servicing, and ground handling.

Credit Recommendation: In the vocational certificate category, 8 semester hours in aircraft systems maintenance (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft maintenance management (6/74).

NV-1704-0143

SH-3A/G POWER PLANTS AND RELATED SYSTEMS ORGANIZATIONAL LEVEL MAINTENANCE

Course Number: C-601-3396.
Location: Air Maintenance Training Detachment, Quonset Point, RI; Air Maintenance Training Detachment, Imperial Beach, CA.
Length: 3 weeks (120 hours).

Objectives: To train enlisted personnel to maintain SH-3A/G aircraft power plants and related systems.

Instruction: Lectures and practical exercises in the troubleshooting, maintenance, and repair of the SH-3A/G aircraft power plant and related systems. Course includes general information and theory of helicopter flight, power plant systems, rotors and related systems, inspection requirements, and functional testing.

Credit Recommendation: In the vocational certificate category, 2 semester hours in power plant organizational maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in power plant organizational maintenance (6/74).

NV-1704-0144

AVIATION SUPPORT EQUIPMENT TECHNICIAN MECHANICAL, CLASS A

Course Number: C-602-2024.
Location: Air Technical Training Center, Memphis, TN.
Length: 9 weeks (313-376 hours).
Exhibit Dates: 1/71-Present.

Objectives: To train ground service support technicians to maintain various types of ground support equipment.

Instruction: Lectures and practical exercises in the maintenance of ground support equipment. Topics include technical publications and directives, records and reports, theory of operation of and principles applicable to fluid, heat and electricity; safety precautions, hand tools, shop equipment and test equipment, fuels and lubricants, corrosion control, servicing, inspections, and gas, diesel and turbine engine maintenance.

Credit Recommendation: In the vocational certificate category, 8 semester hours in aviation ground support equipment maintenance (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in aviation ground support equipment maintenance (6/74).

NV-1704-0145

AVIATION MACHINIST'S MATE J (JET ENGINE), CLASS A

Course Number: C-601-2010.
Location: Air Technical Training Center, Memphis, TN.
Length: 7-8 weeks (264-304 hours).
Exhibit Dates: 5/56-Present.

Objectives: To train enlisted personnel with previous technical experience to perform as jet engine mechanics.

Instruction: Lectures and practical exercises in jet engine repair, including AD rating and training, jet propulsion principles, power plant familiarization (general), typical axial-flow power plant, centrifugal-flow power plant familiarization, periodic inspections, power plant replacement, jet aircraft line operations, and fuel systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in jet engine repair, including AD rating and training, jet propulsion principles, power plant familiarization (general), typical axial-flow power plant, centrifugal-flow power plant familiarization, periodic inspections, power plant replacement, jet aircraft line operations, and fuel systems.

NV-1704-0147

H-53 HELICOPTER MAINTENANCE

Course Number: C-601-3445.
Location: Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 2 weeks (80 hours).
Exhibit Dates: 5/77-Present.

Objectives: To train maintenance technicians to maintain H-53 helicopters.

Instruction: Lectures and practical exercises in the maintenance of H-53 helicopters, including rotors and related systems, power plant, auxiliary power plant, and fuel systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in helicopter maintenance fundamentals (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter maintenance fundamentals (6/74).

NV-1704-0148

AVIATION MACHINIST'S MATE J (TURBO-JET), (CLASS A)

Course Number: C-601-2012.
Location: Air Technical Training Center, Memphis, TN.
Length: Version 1: 7-8 weeks (309-336 hours); Version 2: 9 weeks (344 hours).

Objectives: To train enlisted personnel with previous technical experience to repair reciprocating-engine aircraft.

Instruction: Lectures and practical exercises in reciprocating-engine repair, including fundamentals, power plant and line operations, power plant accessories, line operations and power plant maintenance, fuel metering, ignition systems, periodic inspections, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 6 semester hours in aircraft repair (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in power plant overhaul (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in propulsion systems (6/74).
semester hours in basic reciprocating-engine overhaul (6/74); in the vocational certificate category, 8 semester hours in basic reciprocating-engine overhaul (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in advanced reciprocating-engine overhaul (6/74).

NV-1704-0150
T-53-L-13 ENGINE INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR
Course Number: C-601-3343
Location: Air Maintenance Training Detachment, Ellyson Field, FL.
Length: 2 weeks (80 hours).
Exhibit Dates: 3/73-Present.
Objectives: To train maintenance personnel in the intermediate maintenance and complete engine repair of the T-53-L-13 shaft-turbine engine.
Instruction: Lectures and practical exercises on the intermediate maintenance and complete engine repair of the T-53-L-13 shaft-turbine engine, disassembly and inspection; engine repair and reassembly; repair and installation of inlet guide vane and compressor; and gas producer and accessory repair and installation.
Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft turbine engine maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft turbine engine maintenance (6/74).

NV-1704-0151
E2A POWER PLANT AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 3 weeks (120-128 hours).
Exhibit Dates: 11/69-Present.
Objectives: To train enlisted personnel to maintain and operate turboprop engines and related systems, including fuel systems, propeller systems, electrical systems, and components.
Instruction: Lectures and practical exercises in operation and maintenance of turboprop engines; course includes power plant organizational maintenance, troubleshooting, repair, component replacement and specific test equipment use.
Credit Recommendation: In the vocational certificate category, 2 semester hours in turboprop organizational maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in turboprop organizational maintenance (6/74).

NV-1704-0152
E-2A POWER PLANT AND RELATED SYSTEMS MAINTENANCE NO. 8
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 5 weeks (200 hours).
Exhibit Dates: 11/69-Present.
Objectives: To train enlisted personnel in the maintenance of turboprop engines, including fuel systems, propeller systems, electrical systems, and components.
Instruction: Lectures and practical exercises in maintenance of turboprop engines and related systems. Topics include intermediate and organizational maintenance on power plant and related systems; troubleshooting, repair, and replacement of equipment; and test equipment utilization.
Credit Recommendation: In the vocational certificate category, 2 semester hours in turboprop power plant laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory, 3 in turboprop power plant laboratory (6/74).

NV-1704-0153
AH-1J POWERTRAIN AND ROTORS ORGANIZATIONAL MAINTENANCE
Course Number: C-600-3351
Location: Air Maintenance Training Detachment, Cp. Pendleton, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train maintenance personnel to locate, operate, troubleshoot, and maintain the helicopter power trains and rotor systems.
Instruction: Lectures and practical exercises in maintenance, operation, and servicing of helicopter power trains and rotor systems of AH-1J helicopters. Course includes information on power train, location, operation, removal, inspection, and installation of components.
Credit Recommendation: In the vocational certificate category, 2 semester hours in organizational maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in organizational maintenance (6/74).

NV-1704-0154
H-46 ROTORS AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE COURSE
Course Number: Not available.
Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA.
Length: 3 weeks (112 hours).
Objectives: To train maintenance personnel to maintain the rotors and related systems of the H-46 helicopter.
Instruction: Lectures of practical exercises in the maintenance of the rotor, drive, flight control, and utility systems of the H-46 helicopter, including drive system and rotor system maintenance, flight control system maintenance, and utility systems.
Credit Recommendation: In the vocational certificate category, 14 semester hours in aircraft maintenance nondenstructive inspection (6/74); in the lower-division baccalaureate/associate degree category, 7 semester hours in aircraft maintenance nondenstructive inspection (6/74), Version 2: In the vocational certificate category, 12 semester hours in aircraft maintenance nondenstructive inspection (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance nondenstructive inspection (6/74).

NV-1704-0155
E-2A HYDRAULICS/AIRFRAMES SYSTEMS ORGANIZATIONAL MAINTENANCE
(E-2A HYDRAULICS/AIRFRAMES SYSTEMS MAINTENANCE)
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 3-4 weeks (107-120 hours).
Exhibit Dates: 9/65-Present.
Objectives: To train personnel in aviation mechanical fundamentals.

NV-1704-0156
1. AIRCRAFT MAINTENANCE NONDESTRUCTIVE INSPECTION SCHOOL, CLASS C
2. AIRCRAFT MAINTENANCE NONDESTRUCTIVE INSPECTION SCHOOL, CLASS C
(AIRCRAFT MAINTENANCE RADIOGRAPHY SCHOOL, CLASS C)
Course Number: C-603-3191
Location: Air Technical Training Center, Jacksonville, FL.
Objectives: To train military and federal civil service personnel in aircraft maintenance radiography, nondestructive aircraft maintenance inspection, and eddy current and ultrasonic procedures and interpretation.
Instruction: Lectures and practical exercises in aircraft maintenance radiography and maintenance nondenstructive inspection, including radiography and related subjects, radiographic equipment, film processing, laboratory and aircraft line radiography, and ultrasonic and eddy current inspection.
Credit Recommendation: In the vocational certificate category, 14 semester hours in aircraft maintenance nondenstructive inspection (6/74); in the lower-division baccalaureate/associate degree category, 7 semester hours in aircraft maintenance nondenstructive inspection (6/74), Version 2: In the vocational certificate category, 12 semester hours in aircraft maintenance nondenstructive inspection (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft maintenance nondenstructive inspection (6/74).

NV-1704-0157
AVIATION MECHANICAL FUNDAMENTALS, CLASS P
(AVIGATION MECHANICAL FUNDAMENTALS, CLASS A)
Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 3-4 weeks (120-160 hours).
Exhibit Dates: 9/65-Present.
Objectives: To train personnel in aviaion mechanical fundamentals.
NV-1704-0158
AVIATION MACHINIST'S MATE R (RECIPIROCATING), CLASS B
Course Number: C-601-2013
Location: Air Technical Training Center, Memphis, TN.
Length: 13-14 weeks (540-576 hours).
Exhibit Dates: 6/66-Present.
Objectives: To provide aviation machinist's mates with advanced training in reciprocating-engine repair.
Instruction: Lectures and practical exercises on aircraft reciprocating power plants and related systems, including reciprocating-engine maintenance, reciprocating power plants, ignition, fuel metering, propellers, material control, maintenance management, quality control, magnetism, induction, circuit troubleshooting, supercharging, and maintenance, engine analyzers, and reversing hydraulic, propeller and systems.
Credit Recommendation: In the vocational certificate category, 6 semester hours in maintenance management and reciprocating power plants (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in maintenance, management and reciprocating power plants (6/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).

NV-1704-0159
AVIATION MACHINIST'S MATE J (JET ENGINE), CLASS B
Course Number: C-601-2011
Location: Air Technical Training School, Memphis, TN.
Length: 13-14 weeks (536-544 hours).
Exhibit Dates: 10/65-Present.
Objectives: To provide aviation machinist's mates with advanced training in jet engine maintenance.
Instruction: Lectures and practical exercises in the maintenance of aircraft turbine-type power plants and related systems, including advanced power plant fundamentals and auxiliary equipment, advanced turbojet power plants, advanced turbofan power plant, advanced turboprop power plant, naval aircraft maintenance program, J57 power plant, T56 power plant, and J79 power plant orientation.
Credit Recommendation: In the vocational certificate category, 8 semester hours in turbine engine maintenance management (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in turbine engine maintenance management (6/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).

NV-1704-0160
P-3 ORDNANCE SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Patuxent River, MD.
Length: 2 weeks (80 hours).
Exhibit Dates: 6/70-Present.
Objectives: To train maintenance personnel to maintain and service P-3 aircraft armament systems.
Instruction: Lectures and practical exercises in maintenance of P-3 aircraft armament systems. Course includes bomb bay and wing stores systems, pneumatic systems, launcher systems, sonobuoy systems, underwater sound signal systems, photographic systems, jettison systems, intercalrometer ordnance and rocket sight systems.
Credit Recommendation: In the vocational certificate category, 1 semester hour in ordnance systems technology (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in ordnance systems technology (6/74).

P-3 HYDRAULICS, FLIGHT CONTROL SYSTEMS AND STRUCTURES ORGANIZATIONAL MAINTENANCE
Course Number: E-602-1080.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to service and maintain hydraulic systems, flight controls, and structures of P-3 aircraft.
Instruction: Lectures and practical exercises in maintenance of hydraulic systems; flight controls, and structures of P-3 aircraft. Course includes plumbing, power, auxiliary landing gear, brake, windshield wiper, flap, and primary control systems; booster assembly; A/C structures; and windows, doors, and emergency exits.
Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft hydraulic systems (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic systems (6/74).

AH-1J POWER PLANT AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: C-601-3351.
Location: Air Maintenance Training Detachment, Prince George, VA.
Length: 2 weeks (80 hours).
Exhibit Dates: 10/71-Present.
Objectives: To train maintenance personnel to maintain AH-1J/T400 CP-400 power plant systems.
Instruction: Lectures and practical exercises in AH-1J/T400 CP-400 power plant systems. Course includes turbine engine removal and installation, engine alignment; engine control systems; rigging; and fuel and oil systems.
Credit Recommendation: In the vocational certificate category, 2 semester hours in jet engine maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in jet engine maintenance (6/74).

F-8 J57-P-16/20 INTERMEDIATE MAINTENANCE/COMPLETE ENGINE REPAIR
(F-8 J57-P-16/20 INTERMEDIATE MAINTENANCE)
Course Number: Not available.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Jacksonville, FL.
Length: 3 weeks (112 hours).
Exhibit Dates: 3/68-Present.
Objectives: To train fleet aircraft maintenance personnel in J57-P-16/20 intermediate maintenance and complete engine repair.
Instruction: Lectures and practical exercises in J57-P-16/20 intermediate maintenance and complete engine repair, including disassembly, cleaning, inspection, minor repair, engine testing and trimming procedures and techniques, and assembly.
Credit Recommendation: In the vocational certificate category, 2 semester hours in turbine engine maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in turbine engine maintenance (6/74).

A-6A POWER PLANTS AND RELATED SYSTEMS ORGANIZATIONAL LEVEL MAINTENANCE
Course Number: E-601-0610.
Location: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel in A-6A aircraft power plants and related systems organizational maintenance.
Instruction: Lectures and practical exercises in A-6A aircraft power plants and related systems organizational maintenance, including aircraft general description, periodic maintenance requirements program, power plants, engine operating limits and procedures, engine removal and installation, engine trim procedure, constant speed drive/starter unit familiarization, and fuel system.
Credit Recommendation: In the vocational certificate category, 2 semester hours in turbojet organizational maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in turbojet organizational maintenance (6/74).

A-6 MAINTENANCE SUPERVISORS FAMILIARIZATION
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train supervisory personnel in the A6 weapons system.

Instructor: Lectures and practical exercises on the A6 weapons system, including A6 maintenance familiarization, hydraulic power, and distribution, general electrical and electronics systems, A6 weapons systems familiarization, general avionics equipment and maintenance, power plants and fuel systems, and environmental systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft tower division in aircraft systems laboratory (6/74); in the national certificate category. 2 semester hours in aircraft systems laboratory (6/74).

NV-1704-0166
RA-5C ARMAMENT INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train enlisted personnel to maintain the RA-5C armament system and its components.

Instruction: Lectures and practical exercises in the maintenance of the RA-5C armament system and its components. Course includes controls and indicators, external pylons, electrical systems, delivery modes, and bomb control monitoring systems.

Credit Recommendation: No credit because of the military nature of the course (6/74).

NV-1704-0167
A-6A ARMAMENT SYSTEMS ORGANIZATION AND MAINTENANCE

Course Number: E-646-0640.
Location: Air Maintenance Training Detachment, Whidby Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to maintain and operate A-6A armament systems.

Instruction: Lectures and practical exercises in maintenance and operation of A-6A armament systems. Course includes the components and applicable support equipment for A-6A systems, inspection and safety procedures, shop repairs, adjustments, and test and troubleshooting procedures.

Credit Recommendation: No credit in the vocational certificate category, 1 semester hour in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (6/74).

NV-1704-0168
1153 POWER PLANTS AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 3 weeks (60 hours).
Exhibit Dates: 5/70-Present.

Objectives: To train maintenance personnel to maintain power plant and related systems, including power plant system, J52 engine description, power plant maintenance, aircraft fuel system, and engine maintenance and operation.

Instruction: Lectures and practical exercises in the maintenance and operation of the A-7E armament system. Course includes weapons release stations, release and control systems, and systems checks and circuit analysis, use of specific test equipment, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical or electronic systems (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical or electronic systems (6/74).
NV-1704-0177
AVIATION STRUCTURAL MECHANIC S (STRUCTURES, CLASS C7) (AVIATION STRUCTURAL MECHANIC S, (STRUCTURES, CLASS B)
Course Number: C-603-2011
Location: Air Technical Training Center, Memphis, TN.
Length: 13-14 weeks (540-556 hours).
Exhibit Dates: 10/65-65/66.
Objectives: To train personnel to perform as aviation structural mechanics.

Credit Recommendation: In the vocational certificate category, 12 semester hours in aircraft structures (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in mechanical technology (6/74).

NV-1704-0176
UH-2C POWERPLANTS, FUEL, TRANSMISSIONS AND RELATED SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Imperial Beach, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 8/68-9/68.
Objectives: To train maintenance personnel to maintain, operate, and service the UH-2C T58-GE-8B power plant, fuel, transmission, and related systems.

Instruction: Lectures and practical exercises in the maintenance, operation, and servicing of the UH-2C T58-GE-8B power plant, fuel, transmission, and related systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in power plant organizational maintenance (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in power plant organizational maintenance (6/74).

NV-1704-0176
F-8 POWERPLANTS AND RELATED SYSTEMS
Course Number: E-601-1910.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Jacksonville, FL.
Length: 3 weeks (120 hours).
Objectives: To train maintenance personnel to operate, service, and maintain F-8 power plants and related systems.

Instruction: Lectures and practical exercises in F-8 power plants and related systems operation, servicing, and maintenance, including fuel system components and operation, ventilation, and pressurization; aircraft refueling and defueling; and aircraft fuel systems; components and operation, including fuel cell removal and installation; power plants, principles of jet propulsion, and engine control; and installation of afterburners, periodic inspections, corrosion control, and cooling systems. Credit Recommendation: No credit because of the limited technical nature of the course (12/68).

NV-1704-0181
J52-P/66A/8A INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 3.5 weeks (120 hours).
Exhibit Dates: 10/67-10/69.
Objectives: To train enlisted personnel to maintain the J52 jet engine.

Instruction: Lectures and practical exercises in J52 engine maintenance and repair, including engine introduction; repair and replacement of engine components; cold section disassembly for complete repair activities; hot section disassembly; lubrication system; engine fuel system; electrical, ignition, and air systems; engine systems; inspection and repair; and assembly, test, and installation procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).
Aircraft Launch and Recovery Equipment Maintenance Officer (C-7/11 CATAPULT), CLASS C

Course Number: Not available.
Location: Air Technical Training Center, Lakehurst, NJ.
Length: 9 weeks (368 hours).
Exhibit Dates: 10/70-Present.
Objectives: To train selected commissioned officers to operate, inspect, and maintain the C-7/11 catapults and Mark 7 arresting gear and barricades; to familiarize the student with the visual aids (including the Fresnel lens optical landing system, manually operated visual land aid system, and the pilot landing aid television system).

Instruction: Lectures and practical exercises in the operation, maintenance, and inspection of the C-7/11 catapults and Mark 7 arresting gear and barricades. Topics include fundamentals, description of aircraft launching equipment and aircraft recovery equipment, and aircraft launching and recovery procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

Aircraft Launch and Recovery Equipment Maintenance Officer (C-13 and C-13 MOD 1 CATAPULT), CLASS C

Course Number: C-680-2011.
Location: Air Technical Training Center, Lakehurst, NJ.
Length: 9 weeks (352 hours).
Exhibit Dates: 8/70-1/73.
Objectives: To train personnel in the operation, inspection, and maintenance of C-13 catapults and related equipment; Mark 7 Mods 1, 2, and 3 arresting gear and barricades; and 'shore-based arresting gear.'

Instruction: Lectures and practical exercises in aircraft launch and recovery equipment (C-13 and C-13 Mod 1 catapults), class C, including basic information relating to catapult and arresting gear, specific aircraft launching equipment, basic information relative to all-steam catapults, systems and components, arresting gear, emergency gear, control system, associated equipment, bridge-tensioning system, and Shore-based arresting gear.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

Aircraft Launch and Recovery Equipment Maintenance Officer (C-13 and C-13 MOD 1 CATAPULT), CLASS C

Course Number: C-602-3819.
Location: Air Technical Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Ocena, VA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA.
Length: 2 weeks (64-75 hours).
Exhibit Dates: 3/70-Present.
Objectives: To train maintenance personnel in the latest maintenance procedures required to maintain J-79-GE-8/10 power plants of F/RF-4BJ aircraft at the organizational level.

Instruction: Lectures and practical exercises in J-79-GE-8/10 power plant organizational maintenance, including aircraft familiarization, engine maintenance and inspection procedures, general safety, and publications.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).
1-130 COURSE EXHIBITS

NV-1704-0191
KC-130F AIRFRAMES AND HYDRAULICS
ORGANIZATIONAL MAINTENANCE
Course Number: C-602-3416.
Location: Air Maintenance Training Detachment, Cecil Field, FL.
Length: 2 weeks (64 hours).
Objectives: To train maintenance personnel to maintain and service the KC-130F aircraft and its component systems and systems; including hydraulic and pneumatic systems, including structural repairs and flight control systems.
Instruction: Lectures and practical exercises in the maintenance of the KC-130F aircraft and its hydraulic systems, including structural repairs and flight control systems.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1704-0192
F/RF-4B/J AIRCRAFT MECHANICS
ORGANIZATIONAL MAINTENANCE
Course Number: C-600-3831.
Location: Air Maintenance Training Detachment, El Toro, CA.
Length: 3 weeks (120 hours).
Objectives: To train maintenance personnel to maintain the F/RF-4B/J aircraft and its associated equipment and systems.
Instruction: Lectures and practical exercises in the maintenance of the F/RF-4B/J aircraft and its associated equipment and systems.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1704-0193
KC-130F PROPPELLER INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, El Toro, CA.
Length: 5 weeks (58 hours).
Objectives: To train maintenance personnel to maintain the KC-130F aircraft and its component systems and systems; including hydraulic and pneumatic systems, including structural repairs and flight control systems.
Instruction: Lectures and practical exercises in the maintenance of the KC-130F aircraft and its hydraulic systems, including structural repairs and flight control systems.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1704-0194
H-46 HYDRAULIC SYSTEM ORGANIZATIONAL MAINTENANCE
Course Number: C-602-3416.
Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA.
Length: 2 weeks (64 hours).
Objectives: To train maintenance personnel to maintain the H-46 hydraulic systems, including structural repairs, flight control, and utility hydraulic systems, components and operation.
Instruction: Lectures and practical exercises in the maintenance of the H-46 hydraulic systems, including structural repairs, flight control, and utility hydraulic systems, components and operation.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1704-0195
E-1B AIRFRAME AND HYDRAULIC SYSTEMS
ORGANIZATIONAL MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 2 weeks (80 hours).
Objectives: To train maintenance personnel to maintain the E-1B aircraft and its associated equipment and systems.
Instruction: Lectures and practical exercises in the maintenance of the E-1B aircraft and its associated equipment and systems.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1704-0196
SEROFFIC OFFICER ORIENTATION (SENIOR OFFICER HELICOPTER TRAINING)
Course Number: Not available.
Location: Air Basic Training Command, Pensacola, FL.
Length: 5 weeks (58 hours).
Objectives: To train maintenance personnel to operate and maintain aviation fuel systems, including shore-based refueling equipment, fuel quality control and portable equipment, aviation gasoline/pump-5 fuel systems, operation of the aviation fuel systems, and related equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of aviation fuel systems, including shore-based refueling equipment, fuel quality control and portable equipment, aviation gasoline/pump-5 fuel systems, operation of the aviation fuel systems, and related equipment.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).
NV-1704-0200
AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT MAINTENANCE OFFICER (C-13 CATAPULT), CLASS O

Course Number: Not available.

Location: Air Technical Maintenance Center, Lakhurst, NJ.

Length: 8 weeks (336 hours).

Exhibit Dates: 8/74-Present.

Objectives: To train enlisted personnel to operate, inspect, and maintain the C-13 catapults and Mark 7 arresting gear and barricades.

Instruction: Lectures and practical exercises in the operation, inspection, and maintenance of the C-13 catapults and the Mark 7 arresting gear and barricades. Course includes the fundamentals of launch and recovery, aircraft launching and recovery equipment, and aircraft launching and recovery procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (8/74).

NV-1704-0201
F/RF-4B J79-GE-8/8A COLD SECTION REPAIR

Course Number: Not available.

Location: Air Maintenance Training Detachment, El Toro, CA.

Length: 4 weeks (160 hours).

Exhibit Dates: 10/70-Present.

Objectives: To train enlisted officers to operate, inspect, and maintain the C-13 catapults and Mark 7 arresting gear and barricades. Course includes the fundamentals of launch and recovery, aircraft launching and recovery equipment, and aircraft launching and recovery procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (8/74).

NV-1704-0202
F/RF-4B J79-GE-8/8A HOT SECTION AND RELATED SYSTEMS INTERMEDIATE MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, Lakehurst, NJ.

Length: 6 weeks (240 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train enlisted personnel to operate, inspect, and maintain the F/RF-4B J79-GE-8/8A hot section and related systems.

Instruction: Lectures and practical exercises in the maintenance of the F/RF-4B J79-GE-8/8A hot section and related systems. Course includes inspection, disassembly, cleaning, minor repair, and assembly techniques and procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (8/74).

NV-1704-0203
A-7E C-8185 ARMAMENT STATION CONTROL UNIT INTERMEDIATE MAINTENANCE

Course Number: C-646-3788.

Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 6 weeks (240 hours).

Exhibit Dates: 9/72-Present.

Objectives: To train enlisted personnel to maintain equipment on C-8185 armament station control units.

Instruction: Lectures and practical exercises in the maintenance of equipment on C-8185 armament station control units, including inspection, disassembly, repair, troubleshooting, and reassembly techniques and procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (8/74).

NV-1704-0204
UH-IN POWER PACKAGE ORGANIZATIONAL MAINTENANCE

Course Number: C-600-3357.

Location: Air Maintenance Training Detachment, C. Pendleton, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train fleet maintenance personnel to maintain the UH-IN power package.

Instruction: Lectures and practical exercises in the maintenance of the UH-IN power package. Course includes power package removal, installation and alignment, NF control system, and the fuel and oil system.

Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in industrial or mechanical technology program (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in industrial or mechanical technology program (6/74).

NV-1704-0205
HH-2D/SH-2D AUTOMATIC STABILIZATION EQUIPMENT INTERMEDIATE MAINTENANCE

Course Number: C-602-3391.

Location: Air Maintenance Training Detachment, Imperial Beach, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 8/73-Present.

Objectives: To train enlisted personnel to maintain and test the automatic stabilization equipment in HH-2D/SH-2D helicopters.

Instruction: Theoretical and practical training on gyro, accelerometer, synchro, amplifier, mod-deimod, and synchronizer subsystems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in aircraft electronic maintenance laboratory (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft electronic maintenance laboratory (6/75).

NV-1704-0206
P-3 STRUCTURES, HYDRAULIC POWER AND FLIGHT CONTROLS ORGANIZATIONAL MAINTENANCE

Course Number: C-603-3511.

Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.

Length: 4 weeks (120 hours).

Exhibit Dates: 5/73-Present.

Objectives: To provide update training in maintenance procedures for the hydraulics and flight control systems on P-3 aircraft.

Instruction: Practical training in hydraulics, electro-mechanical units, flight control system operation, and assembly and rigging.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft hydraulic and general maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic and general maintenance (6/75).

NV-1704-0207
UH-IN ELECTRICAL SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3354.

Location: Air Maintenance Training Detachment, C. Pendleton, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 9/73-Present.

Objectives: To train enlisted personnel in the maintenance and repair of the UH-IN helicopter electrical system.

Instruction: Instruction in DC power distribution, AC power systems, batteries, wiring diagrams, and warning circuits.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft electrical maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft electrical maintenance (6/75).

NV-1704-0208
1. AIRCrew SURVIVAL EQUIPMENTMAN, CLASS C7
2. ADVANCED AIRCrew SURVIVAL EQUIPMENTMAN (AIRCREW SURVIVAL EQUIPMENTMAN SCHOOL, CLASS B)

Course Number: C-602-2011.

Location: Air Technical Training Center, Lakehurst, N.J.


Objectives: To provide personnel with the comprehensive theoretical, practical, and administrative background necessary to perform duties in operating squadrons.

Instruction: Lectures and practical exercises in aircraft maintenance and material management; major and minor repairs on sewing machines; liquid oxygen; rigid seat survival seats and oxygen systems test stands; oxygen regulators; and advanced parachutes.

Credit Recommendation: In the vocational certificate category, 2 semester hours in industrial management, 5 in aerotechnology, and 1 in sewing machine repair and operation (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in industrial management and 3 in aerotechnology (5/74).

NV-1704-0209
F-14A ENVIRONMENTAL/ESCAPE SYSTEM SPECIALIST (CREW LEADER) - ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3898.

Objectives: To train enlisted personnel to maintain and repair the environmental and escape systems on F-14 aircraft.

Instruction: Lectures and practical exercises in the maintenance and repair of the environmental and escape systems on F-14 aircraft.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft electrical and airframe maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft electrical and airframe maintenance (6/75).
1-132  COURSE EXHIBITS

Location: Air Maintenance Training Detachment, Miramar, CA.

Length: 4 weeks (175 hours).
Exhibit Dates: 4/73-Present.

Objectives: To train enlisted personnel to perform operational level maintenance on the F-14 aircraft hydraulic systems and related subsystems.

Instruction: Instruction in system functional operation, checkout procedures, test equipment utilization, and safety procedures. Emphasis is placed on data processing, link transmitters, receivers, pulse techniques, and missile guidance fundamentals.

Credit Recommendation: In the vocational certificate category, 4 semester hours in aviation electronics laboratory (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in aviation electronics laboratory (6/75).

F-14A AIRFRAME AND HYDRAULIC SYSTEMS TECHNICIAN (CREW MEMBER) ORGANIZATIONAL MAINTENANCE

Course Number: C-601-3896.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 4 weeks (105 hours).
Exhibit Dates: 8/73-Present.

Objectives: To train personnel to perform operational level maintenance on the F-14 aircraft fuel system and power plant components.

Instruction: Instruction in fuel systems, including tanks, plumbing, pumps, ventilation, pressurization, electrical caution and warning systems, and in power plant topics including starting and ignition systems, lubrication, control rigging, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft fuel systems and turbine engine maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic systems and related subsystems.

F-14A POWER PLANT AND RELATED SYSTEMS SPECIALIST (CREW LEADER) ORGANIZATIONAL MAINTENANCE

Course Number: C-601-3896.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 4 weeks (105 hours).
Exhibit Dates: 8/73-Present.

Objectives: To train personnel in the operation and maintenance of the F-14 aircraft hydraulic system and related subsystems.

Instruction: Instruction in hydraulic principles and equipment and specific training in systems peculiar to the F-14 aircraft.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft hydraulic systems and related subsystems.

F-14A COMMUNICATIONS, NAVIGATION/ DISPLAYS, ELECTRONIC WARFARE ORGANIZATIONAL MAINTENANCE TECHNICIAN

Course Number: C-102-3896.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 5 weeks (196 hours).
Exhibit Dates: 11/73-Present.

Objectives: To train enlisted personnel in the maintenance of the communications, navigation, and electronic warfare systems on the F-14 aircraft.

Instruction: Specialized instruction on radar beacon systems, UHF communications, navigation subsystems, and electronic warfare systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in aircraft electronic and navigation equipment maintenance (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft electronic and navigation equipment maintenance (6/75).

F-14A ELECTRICAL SYSTEMS TECHNICIAN (CREW MEMBER) ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3897.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 3-4 weeks (140 hours).
Exhibit Dates: 8/73-Present.

Objectives: To train personnel in the maintenance of electrical systems on the F-14 aircraft.

Instruction: Instruction in basic electrical principles and equipment and specific training in electrical systems peculiar to the F-14 aircraft.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft electronic and navigation equipment maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic systems and related subsystems.

F-14A ORGANIZATIONAL MAINTENANCE SUPERVISOR'S FAMILIARIZATION

Course Number: C-000-3896.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 8/73-Present.

Objectives: To train supervisory personnel in the evaluation and assignment of maintenance tasks relating to the F-14 aircraft.

Instruction: Limited instruction on basic aircraft topics including electrical, hydraulics, flight control, power and plant, avionics, and weapon control systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in general aircraft maintenance (6/75).

NV-1704-0213  FIRST TOUR PILOT P-3C COMMUNICATIONS OPERATOR

Course Number: D-2D-0011.
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 2 weeks (67 hours).
Exhibit Dates: 4/68-Present.

Objectives: To train first tour pilots to qualify as airborne communications operators.

Instruction: Classroom instruction in basic communications, message preparation, theory of radio wave propagation and antenna characteristics, and operation of aircraft communications systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in communications (6/75).

NV-1704-0214  F-14 WEAPONS SYSTEM TECHNICIAN ORGANIZATIONAL MAINTENANCE

Course Number: C-112-3896.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 6-7 weeks (259 hours).
Exhibit Dates: 11/73-Present.

Objectives: To train enlisted personnel to maintain specific weapons systems on the F-14 aircraft.

Instruction: Instruction in system functional operation, checkout procedures, test equipment utilization, and safety procedures. Emphasis is placed on data processing, link transmitters, receivers, pulse techniques, and missile guidance fundamentals.

Credit Recommendation: In the vocational certificate category, 4 semester hours in aviation electronics laboratory (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in aviation electronics laboratory (6/75).

NV-1704-0215  F-14A AIRFRAME AND HYDRAULIC SYSTEMS TECHNICIAN (CREW MEMBER) ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3900.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 3 weeks (140 hours).
Exhibit Dates: 9/73-Present.

Objectives: To train personnel in the operation and maintenance of the F-14 aircraft hydraulic system and related subsystems.

Instruction: Instruction in hydraulic principles and equipment and specific training in systems peculiar to the F-14 aircraft.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft hydraulic systems and related subsystems.

NV-1704-0216  F-14A AIRFRAME AND HYDRAULIC SYSTEMS TECHNICIAN (CREW MEMBER) ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3901.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 3 weeks (122 hours).
Exhibit Dates: 7/73-Present.

Objectives: To train enlisted personnel in the operation and maintenance of the F-14 hydraulic systems and related subsystems.

Instruction: Instruction in hydraulic system components; rigid and flexible hydraulic lines; fittings; detailed coverage of systems such as spoilers, rudder, refueling probe, ram air door, and gun drive air inlet; and maintenance of landing gear and brake systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft hydraulic systems maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic systems maintenance (6/75).
INSTRUCTION: Lectures and practical exercises on applicable test equipment, publications, and safety procedures. Specific topics include circuit theory of power supply, lighting, safety, armament, and control assemblies.

CREDIT RECOMMENDATION: In the vocational certificate category, 9 semester hours in aircraft electrical repair and maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft electrical repair and maintenance (6/75).

NV-1704-0219
Naval Flight Officer P3C Communications Operator
Course Number: D-2D-0012.
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 4 weeks (134 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train flight officers (non-pilots) to be airborne communications officers.

INSTRUCTION: Lectures and practical exercises in basic communications, teletype operation, message preparation, theory of radio wave propagation and antenna characteristics, and operation of aircraft communications systems.

CREDIT RECOMMENDATION: In the vocational certificate category, 7 semester hours in communications (6/75).

NV-1704-0220
Air Controlman—Carrier Air Traffic Control Center Utilization—Operator
Course Number: K-222-0051.
Location: Fleet Combat Direction Systems Training Center, Pacific, San Diego, CA.
Length: 5 weeks (140 hours).
Exhibit Dates: 7/74-Present.
Objectives: To train personnel to perform various aircraft operations duties aboard aircraft carriers.

INSTRUCTION: Lectures and practical exercises in aircraft carrier organization and administration, shipboard aircraft handling, and shipboard flight operations and associated electronic equipment, including EF, radar, and TACAN.

CREDIT RECOMMENDATION: No credit because of the military nature of the course (6/75).

NV-1704-0221
F-14 Armament Systems Maintenance Technician (Crew Member) Organizational Maintenance
Course Number: C-646-3896.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 3 weeks (105 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train enlisted personnel in the loading, servicing, and maintenance of the F-14 weapons system.

INSTRUCTION: Practical exercises in weapons loading, safety procedures, and use of specialized equipment peculiar to the F-14 weapons system.

CREDIT RECOMMENDATION: No credit because of the military nature of the course (6/75).

NV-1704-0222
EA-6B J-52-P-408 Power Plants and Related Systems Organizational Maintenance
Course Number: C-601-3762.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 2 weeks (80 hours).
Exhibit Dates: 8/73-Present.
Objectives: To train enlisted personnel in the servicing and maintenance of the EA-6B aircraft power plants.

INSTRUCTION: Practical exercises using test-analyzing equipment, engine performance test criteria, and fuel system malfunction analysis.

CREDIT RECOMMENDATION: In the vocational certificate category, 8 semester hours in aircraft power plant maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft power plant maintenance (6/75).

NV-1704-0223
EA-6B Hydraulics and Flight Control Organizational Maintenance
Course Number: C-602-3779.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/73-Present.
Objectives: To train personnel to maintain the hydraulic system on the EA-6B aircraft.

INSTRUCTION: Lectures and practical exercises in the maintenance of all hydraulic systems and components of the EA-6B aircraft including the use of test equipment and troubleshooting procedures.

CREDIT RECOMMENDATION: In the vocational certificate category, 7 semester hours in aircraft hydraulic systems maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft hydraulic systems maintenance (6/75).

NV-1704-0224
E-2B/C-2A Aviation Electrician Organizational Maintenance
Course Number: C-602-3479.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 4 weeks (118 hours).
Exhibit Dates: 5/73-Present.
Objectives: To train personnel to maintain the electrical system on the E-2B/C-2A aircraft.

INSTRUCTION: Lectures and practical exercises in AC/DC power systems, de-icing, pressurization, air conditioning, and instrumentation and automatic flight control systems.

CREDIT RECOMMENDATION: In the vocational certificate category, 7 semester hours in aircraft electrical maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft electrical maintenance (6/75).

NV-1704-0225
E-2B ATDS Operator (Naval Flight Officer)
(E-2B Airborne Tactical Data Systems Operator (Naval Flight Officer))
Course Number: D-2D-0016.

Location: Carrier Airborne Early Warning Training Squadron 120, Norfolk, VA.
Length: 16 weeks (173 hours).
Exhibit Dates: 2/74-Present.
Objectives: To provide advanced training for flight officers (non-pilots) in the airborne tactical data system incorporated in the E-2B aircraft.

INSTRUCTION: Instruction includes ground training on weapon system operation and flight training in the utilization of the weapon system.

CREDIT RECOMMENDATION: No credit because of the military nature of the course (6/75).

NV-1704-0226
E-2B Airborne Tactical Data Systems (E-2B Naval Flight Officer)
Course Number: E-2D-0201.
Location: Carrier Airborne Early Warning Training Squadron 110, North Island, CA.
Length: 20-30 weeks.
Exhibit Dates: 1/73-Present.
Objectives: To prepare flight officers (non-pilots) and student flight officers for duty in the E-2B airborne tactical data system.

INSTRUCTION: Student flight officers complete 10 weeks of air intercept control training and are designated as Air Intercept Controllers before entering the final 20 weeks of training. Classroom and flight training includes laboratory and exercise simulation in tactical data systems operation, airspace management, radar systems, navigation, communications, and target identification and intercept.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/75).

NV-1704-0227
E-1B Power Plants and Related Systems Organizational Maintenance
Course Number: C-601-3456; C-601-14.
Location: Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Norfolk, VA.
Length: 2 weeks (80 hours).
Exhibit Dates: 12/68-Present.
Objectives: To train enlisted personnel in the maintenance procedures for the R1820-82A reciprocating engine.

INSTRUCTION: Theory and practical exercises in maintenance techniques used on reciprocating engines, including removal and installation, operational checks, troubleshooting, and related systems (external oil, propeller, fuel, carburetor, ignition) maintenance.

CREDIT RECOMMENDATION: In the vocational certificate category, 2 semester hours in aircraft power plant and reciprocating engine maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft power plant and reciprocating engine maintenance (6/75).

NV-1704-0228
Avionics Repairman, Class C
Course Number: C-100-2014.

Location: Carrier Airborne Early Warning Training Squadron 100, Norfolk, VA.
Length: 16 weeks (173 hours).
Exhibit Dates: 2/74-Present.
Objectives: To provide advanced training for flight officers (non-pilots) in the airborne tactical data system incorporated in the E-2B aircraft.

INSTRUCTION: Instruction includes ground training on weapon system operation and flight training in the utilization of the weapon system.

CREDIT RECOMMENDATION: No credit because of the military nature of the course (6/75).

NV-1704-0228
Avionics Repairman, Class C
Course Number: C-100-2014.
COURSE EXHIBITS

Location: Air Technical Training Center, Memphis, TN.
Length: 5 weeks (167 hours).

Exhibit Dates: 11/73-Present.
Objectives: To provide basic avionics/electronics instruction to personnel so that they may assume the duties of an Electronic Maintenance Aircraftman in an Organizational Maintenance Activity (OMA).

Instruction: Lectures and practical exercises to include instruction in electronic systems, soldering, cable fabrication, test equipment, electrical systems, electrical/electronic components, and procedures and techniques required to service and repair avionics systems.

Credit Recommendation: In the vocational certificate category, 6 semester hours in basic avionics/electronics (6/75).

NV-1704-0229

AN/AVM-11 (V) HEAD UP DISPLAY TEST SET INTERMEDIATE MAINTENANCE (A-7/E)

Course Number: C-104-3784; C-150-3785.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 12 weeks (480 hours).
Exhibit Dates: 7/73-Present.
Objectives: To provide instruction in the calibration and maintenance of a specific electronic test set.

Instruction: Lectures and practical exercises in troubleshooting, circuit analysis and repair, and maintenance, and calibration of the AN/AVM-11 (V) HUD test set. Includes covers service unit analysis, control unit analysis, line switch unit, and general and special purpose functional test units.

Credit Recommendation: In the vocational certificate category, 6 semester hours in advanced avionics maintenance (6/75).

NV-1704-0230 (See page 1-284)

NV-1704-0231

F-4J AN/AWG-10 MISSILE CONTROL SYSTEM (ENLISTED) FAMILIARIZATION

Course Number: C-121-012.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 2 weeks (80 hours).
Exhibit Dates: 12/69-Present.
Objectives: To provide enlisted personnel with familiarization with the F-4J missile control system.

Instruction: Lectures and practical exercises in the operation and testing of an aircraft missile control system.

Credit Recommendation: No credit because of the limited technical nature of the course (6/75).

NV-1704-0232

E-2B WEAPON SYSTEM TRAINER (WST)

Course Number: E-2D-0202.
Location: Carrier Airborne Early Warning Training Squadron 110, Miramar, CA.
Length: 5 weeks (152 hours).

Exhibit Dates: 1/70-Present.
Objectives: To train personnel to utilize the full capabilities of the E-2B weapon system.

Instruction: Lectures and practical exercises in introduction to simulator; use of laboratory instruments including scope controls, data entry systems and intercept control displays; and interpretation of intercept and tracking displays.

Credit Recommendation: No credit because of the military nature of the course (6/75).

NV-1704-0233

E-1B NAVAL FLIGHT OFFICER AND AIRCREWMAN

Course Number: D-2D-0017; D-221-0016.
Location: Carrier Airborne Early Warning Training Squadron 120, Norfolk, VA.
Length: 16 weeks (200 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train personnel to operate and maintain the APS-82 radar and associated systems and to perform any E-1B mission.

Instruction: Lectures and practical exercises to include E-1B avionics systems and general missions, and maintenance and troubleshooting procedures on specialized electronic systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics (6/75).

NV-1704-0234

AIRCREW SURVIVAL EQUIPMENTMEN, CLASS A

Course Number: Version 1: C-602-3440; Version 2: C-602-3441; Version 3: N/A.
Location: Air Technical Training Center, Lakehurst, NJ.
Exhibit Dates: 5/70-Present.
Objectives: To provide the basic 'skills and knowledge necessary to maintain survival equipment and associated machinery.

Instruction: All Versions: Classroom instruction in the operation and maintenance of aircraft, oxygen, and carbon dioxide systems and equipment. Version 1: Topics include aviation fundamentals, basic and advanced parachute skills and techniques, and sewing machine and fabric work involving machine operation, fabric layout, and sewing projects.

Credit Recommendation: In the vocational certificate category, 3 semester hours in aeronautical technology (5/74). Version 3: In the vocational certificate category, 3 semester hours in oxygen/carbon dioxide equipment and pressure suits (5/74).

NV-1704-0235

H-53 ELECTRICAL AND INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3444.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 5/70-Present.
Objectives: To provide instruction in the organizational level maintenance of electrical and instrument systems of the H-53 aircraft.

Instruction: Practical application of H-53 systems familiarization topics and transistor fundamentals in the operation, maintenance, and servicing of the aircraft electrical and instrument systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in aircraft electrical and instrument systems maintenance (6/75).

NV-1704-0236

H-53 ELECTRICAL AND INSTRUMENT SYSTEMS INTERMEDIATE MAINTENANCE

Course Number: C-602-3441.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 5/70-Present.
Objectives: To provide instruction in the operating, servicing, and maintenance of the H-53 aircraft systems.

Instruction: Lectures and practical exercises in the application of transistor fundamentals to power systems, light systems, instruments, heaters, and controllers. Topics include block diagram, description, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical and instrument maintenance (6/75).

NV-1704-0237

C-130 AIRCRAFT MECHANIC ORGANIZATIONAL MAINTENANCE

Course Number: C-600-3502.
Location: Air Maintenance Training Detachment, El Toro, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 5/70-Present.
Objectives: To provide instruction in the organizational level maintenance of the Lockheed C-130 turbo-prop (heavy transport) aircraft.

Instruction: Classroom and practical instruction in the latest maintenance techniques, modifications, and alterations, systems operation, and servicing of the aircraft.

Credit Recommendation: In the vocational certificate category, 3 semester hours in advanced aircraft maintenance and repair (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in aeronautical technology (5/74); In the vocational certificate category, 3 semester hours in oxygen/carbon dioxide equipment and pressurization suits (5/74).
AVIATION MACHINIST'S MATE H, CLASS A
Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 12 weeks (464 hours).
Exhibit Dates: 10/56-12/68.
Objectives: To train selected Marine Corps personnel to maintain helicopters. Instructs in fundamentals of mathematics and general aviation.
Instruction: Lectures and practical exercises in the maintenance and mechanics of helicopters, to include power plant and line operation, principles; fuel metering, ignition, and flight control.
Credit Recommendation: In the vocational certificate category, 18 semester hours in helicopter mechanics (6/74); in the lower-division baccalaureate/associate degree category, 9 semester hours in helicopter mechanics (6/74).

AVIATION STRUCTURAL MECHANIC, CLASS B
Course Number: None.
Location: Air Technical Training Center, Memphis, Millington, TN.
Length: 24-26 weeks (960-1040 hours).
Exhibit Dates: 9/57-9/65.
Objectives: To train personnel to perform as aviation structural mechanics.
Instruction: Lectures and practical exercises in fundamentals of mathematics and electricity, publications and reports, utilization and interpretation of schematic drawings, aircraft metals, welding, nonmetallic materials, aircraft hydraulics, and airframes and operational maintenance.
Credit Recommendation: In the vocational certificate category, 18 semester hours in aircraft structural mechanics (6/76); in the lower-division baccalaureate/associate degree category, 9 semester hours in aircraft structural mechanics (6/76).

CALCULATOR REPAIR CLASS C (INSTRUMENTMAN (CALCULATOR REPAIR), CLASS C)
Location: Service Schools Command, Great Lakes, IL.
Length: 18 weeks (555 hours).
Exhibit Dates: 2/70-Present.
Objectives: To train petty officers to test, repair, overhaul, and maintain Friden, Marchant, and Monroe calculators.
Instruction: Lectures and practical exercises in the testing, repair, overhaul, and maintenance of Friden, Marchant, and Monroe calculators.
Credit Recommendation: In the vocational certificate category, 10 semester hours in instrument repair (8/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in instrument repair (8/74).

TELETYPEWRITER TT-299 B/UG WATCHSTANDERS REFRESHER MAINTENANCE
Course Number: L-160-011.
Location: Fleet Submarine Training Facility, Pearl Harbor, HI.
Length: 3 weeks (90 hours).
Exhibit Dates: 12/69-Present.
Objectives: To train enlisted personnel to maintain and repair the TT-299 B/UG teletypewriter set.
Instruction: Lectures and practical exercises in the maintenance and repair of the TT-299 B/UG teletypewriter set. Course includes a detailed study of the electrical and mechanical features of the TT-299 B/UG teletypewriter and comprehensive coverage of teletypewriter maintenance.
Credit Recommendation: In the vocational certificate category, 3 semester hours in typewriter repair (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in typewriter repair (8/74).

ADVANCED OFFICE MACHINE REPAIR, CLASS C
Course Number: A-670-0027.
Location: Instrumentmen, Class C School, Great Lakes, IL.
Length: 25 weeks (780 hours).
Exhibit Dates: 6/72-6/77.
Objectives: To train personnel to maintain and repair office machines.
Instruction: Lectures and practical exercises in identifying, testing, diagnosing, repairing, overhauling, and adjusting specific types of adding machines, electric typewriters, and calculators.
Credit Recommendation: In the vocational certificate category, 10 semester hours in office machine maintenance (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in office machine maintenance (6/75).

RIVER ASSAULT CRAFT TRAINING
Course Number: H-00-1500; H-000-1500.
Location: Inshore Operations Training Center, Vallejo, CA.
Length: 11 weeks (805 hours).
Exhibit Dates: 4/68-Present.
Objectives: To provide officers and enlisted personnel with the knowledge and skills necessary to perform river assault craft operations.
Instruction: Lectures and practical exercises in river assault craft operations, including navigation, bcat-handling techniques, damage control and salvage, swimming, in-water survival training, gunnery and small arms operation, tactics, and counterinsurgency.
Credit Recommendation: In the vocational certificate category, 4 semester hours in transportation (2/74).

ADVANCED SUBMARINE QUARTERMASTER SCHOOL
Course Number: F-772-011.
Location: Submarine School, Groton, CT.
Length: 3 weeks (100 hours).
Exhibit Dates: 4/68-Present.
Objectives: To teach rated quartermasters with a minimum of one year in rate the classroom elements of the professional requirements of submarine piloting and navigation.
Instruction: Consists of piloting and anchoring techniques; determination of Loran lines; familiarity with compass, including causes, kinds, significance of, and compensation for, compass error; computation of sunrise, sunset, moonrise, and moonset; determination of lines of position by celestial observation.
Credit Recommendation: In the vocational certificate category, 3 semester hours in water transportation (2/74).

BASIC QUARTERMASTER, ENLISTED
Course Number: J-772-620.
Location: Fleet Training Center, Newport, RI.
Length: 5 weeks (163 hours).
Exhibit Dates: 7/68-Present.
Objectives: To train enlisted personnel in the basic principles and techniques of water navigation.
Instruction: Lectures and practical exercises in shipboard duties of the quartermaster and in navigation fundamentals, including nautical charts and chart projections; fundamentals of plotting; operation of magnetic and gyro compasses; the lateral buoy system; operation of various navigational instruments; and tides, currents, and weather.
Credit Recommendation: In the vocational certificate category, 3 semester hours in water transportation (2/74).

AVIATION HYDRAULICS
Course Number: H-000-1500.
Location: San Diego, CA.
Length: 8 weeks (224 hours).
Exhibit Dates: 8/72-12/75.
Objectives: To familiarize flight line personnel with flight line hydraulic systems, and provide them with the knowledge necessary to perform flight line maintenance.
Instruction: Lectures and practical exercises in flight line hydraulic systems, including the principles and techniques of flight line maintenance, flight line hydraulic systems, and the use of flight line maintenance equipment.
Credit Recommendation: In the vocational certificate category, 3 semester hours in flight line maintenance (2/74).

LANDING CRAFT BEACH AND SURF SALVAGE
Course Number: G-2E-6310; H-2E-5318; H-000-5318.
Location: Amphibious School, San Diego, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/72-Present.
Objectives: To provide amphibious boat crews with the knowledge and skills necessary to perform amphibious boat salvage operations.
Instruction: Lectures and practical exercises in amphibious boat salvage operations, including the principles and techniques of amphibious boat salvage operations.
Credit Recommendation: In the vocational certificate category, 2 semester hours in amphibious boat salvage operations (2/74).
I. COURSE EXHIBITS

Credit Recommendation: In the vocational certificate category, 3 semester hours in transportation (2/74).

NV-1708-0006
Assault Boat Coxswain
Course Number: H-813-5316; G-062-6358; G-813-6358.
Location: Naval Amphibious School, San Diego, CA; Naval Amphibious School, Norfolk, VA.
Length: 3 weeks (106–121 hours).
Exhibit Dates: 1/57–Present.
Objectives: To provide enlisted personnel with a basic knowledge of boat handling and assault boat operations.
Instructor: Lectures and practical demonstrations in basic boat-handling procedures, landing craft operations, assault boat operations, tactics, and hand signals, ship-to-shore communications, and navigational aids.

Credit Recommendation: No credit because of the military nature of the course (2/74).

NV-1708-0007
Shiploading and Stowage
Course Number: A-8C-0013.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (64 hours).
Objectives: To train enlisted personnel to load, stow, and discharge cargo, and to supervise others engaged in this activity.

Instruction: Lectures and practical exercises in the techniques of loading, stowing, and discharging cargo and in the supervision of such activities. Course includes cargo stowage, stowing, safety in cargo operations, stability in shiploading, and preplanning ship's cargo.

Credit Recommendation: In the vocational certificate category, 2 semester hours in shiploading and stowage (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in shiploading and stowage (7/74).

NV-1709-0001

1. PHOTOGRAPHER'S MATE SCHOOL, CLASS A, BASIC

2. PHOTOGRAPHER'S MATE SCHOOL, CLASS B

3. PHOTOGRAPHER'S MATE A (AERIAL CAMERAMAN) (PHOTOGRAPHER'S MATE G (CAMERAMAN))

Course Number: Version 1: C-400-2011.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.

Objectives: To provide personnel with a basic knowledge of the photographic equipment performed in the Navy, including photographic principles, camera operation, black and white photography, color film, lighting, and photography, motion picture study, aerial photography, and camera maintenance.

Instruction: All Versions: An intensive study of photography and photographic principles, plus two weeks of military-oriented training; lectures and practical experiences with photographic theory, camera operation, lab operation, lab concentration, photo techniques, aerial photography, public affairs photography, small-format photography, color print photography, and motion picture photography.

Version 1: Course uses modular, self-paced, individualized instruction as the primary instructional method with heavy emphasis on performance. Specific topics include exposure factors and controls, photographic materials, camera techniques, quality control, flash photography, studio photography, information and release photography, motion picture photography, color photography, and aerial photographic laboratory support.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in photography (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in photography (12/73); in the upper-division baccalaureate category, 6 semester hours in photography (12/68). Version 2: In the vocational certificate category, 3 semester hours in photography (12/73); in the upper-division baccalaureate category, 3 semester hours in photography (12/73). Version 3: None.

NV-1709-0002
PHOTOGRAPHIC OFFICERS (CLASS O)
Course Number: None.
Location: Naval Air Technical Training Unit, Pensacola, FL.
Length: 21 weeks (810 hours).
Exhibit Dates: 10/57–12/68.
Objectives: To provide selected officers with a knowledge of and skills in basic photography, including military-oriented air photography applications.

Instruction: Basic integrated subjects, including administrative records, files, reports, and a study of electricity; general photography, including exposure, camera operation, photographic chemistry, and laboratory procedures; motion picture photography, including exposure, camera operation, and laboratory procedures; aerial photography, including aerial techniques, camera operation, laboratory operations, color photography, including techniques for both color prints and color transparencies.

Credit Recommendation: In the vocational certificate category, 6 semester hours in photography (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in photography (12/73); in the upper-division baccalaureate category, 3 semester hours in photography (12/73); in the upper-division baccalaureate category, 6 semester hours in photography (12/68).

NV-1709-0004

1. PHOTOGRAPHIC RECONNAISSANCE OFFICERS, CLASS O

2. PHOTOGRAPHIC RECONNAISSANCE OFFICERS, CLASS B

3. PHOTOGRAPHIC RECONNAISSANCE OFFICERS, CLASS A

4. PHOTOGRAPHIC RECONNAISSANCE OFFICERS, CLASS C

Location: Naval Air Technical Training Unit, Pensacola, FL.

Objectives: To provide selected aviators, observers, or officers with an understanding of aerial photographic reconnaissance.


Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in photography (12/73). Version 2: In the vocational certificate category, 2 semester hours in photography (12/73); in the upper-division baccalaureate category, 6 semester hours in photography (12/73).
NV-1709-0006

IOIC PHOTO INTERPRETATION OFFICER

Course Number: D-3A-010.

Location: Reconnaissance Attack Squadron Three, Albany, GA.

Length: 5 weeks (200 hours).

Exhibit Dates: 5/69-Present.

Objectives: To train officers with an understanding of the capabilities of the Integrated Operational Intelligence Center (IOIC), and to qualify them to interpret, analyze, and report aerial photographic missions through the use of a computer-oriented photographic station within the IOIC area aboard attack aircraft carriers.

Instruction: IOIC concepts; multisensor capabilities of the RA-5C aircraft; basic intelligence-gathering concepts; photographic interpretation station; computer programs related to photographic interpretation.

Credit Recommendation: In the vocational certificate category, 1 semester hour in photographic interpretation (12/73).

NV-1709-0007

IOIC PHOTO INTERPRETATION OPERATOR

Course Number: D-150-015.

Location: Reconnaissance Attack Squadron Three, Albany, GA.

Length: 9 weeks (348 hours).

Exhibit Dates: 5/69-Present.

Objectives: To provide personnel with an understanding of the capabilities of the Integrated Operational Intelligence Center (IOIC), and to qualify them to interpret, analyze, and report aerial photographic missions through the use of a computer-oriented photographic station within the IOIC area aboard attack aircraft carriers.

Instruction: IOIC concepts; multisensor capabilities of the RA-5C aircraft; basic intelligence-gathering concepts; operation of the computer-oriented photographic station; computer programs related to photographic interpretation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in photographic interpretation (12/73); in the upper-division baccalaureate category, 3 semester hours in photographic interpretation (12/68).

NV-1709-0008

IOIC PHOTOGRAPHIC PROCESSING / MAINTENANCE

Course Number: D-150-014.

Location: Naval Intelligence Processing System Training Facility, Albany, GA.

Length: 5 weeks (175 hours).

Exhibit Dates: 5/69-Present.

Objectives: To provide enlisted personnel with specialized training which will enable them to efficiently process and reproduce photographic intelligence collected by RA-5C aircraft.

Instruction: Familiarization with current fleet photographic operations and procedures; basic photographic quality control techniques; operation and maintenance of continuous processors, printers, and related equipment; tone reproduction techniques.

Credit Recommendation: No credit because of the limited technical nature of the course (12/73).

NV-1709-0009

1. MOTION PICTURE SCHOOL, CLASS C (MOTION PICTURE CAMERAMAN)

Course Number: All Versions: C-400-2010. Version 2: C-400-12.

Location: Naval Technical Training Center, Corry Station, Pensacola, FL.


Objectives: To provide students with the skills of motion picture filming and editing, as well as an understanding of the theory and practice of processing, printing, and sound-recording for motion picture film; and to familiarize the student with aerial and underwater motion picture photography, and television camera techniques.

Instruction: Version 1: Course uses modular, self-paced, individualized instruction as the primary instructional method. Course topics cover photographic laboratory supervision, advanced motion picture photography, advanced motion picture filming techniques, studio production, double system sound, sound documentary production, and television production. Version 2: Phase I: Studies in basic film craft will be a product of experiences in film continuity, composition, film assembly and editing techniques, special effects; and screen direction; studies in camera mechanism, optics, and maintenance, as well as film exposure, lens setting, filter theory, and reversal film usage. Phase II: In addition to Phase I, experience with Ariflex and Mitchell cameras will be applied to advanced lighting techniques, story development, script writing, production planning, and negative-positive editing, as well as color film techniques and theory. Phase III: Studies in high-speed, underwater, and aerial photography, as well as sound for story for single and double system production.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 4 semester hours in cinematography or motion picture photography (1/77). Version 2: In the vocational certificate category, 3 semester hours in motion picture photography (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in motion picture photography (12/73); in the upper-division baccalaureate category, 3 semester hours in motion picture photography (12/68).

NV-1709-0010

STILL DOCUMENTARY PHOTOGRAPHY C1

Course Number: C-400-2022.

Location: Naval Technical Training Center, Corry Station, Pensacola, FL.

Length: Self-paced 6 weeks (218 hours).

Exhibit Dates: 10/76-Present.

Objectives: To provide training or updating of skills in producing picture stories for media release and the production of audio-visual slide presentations to support written presentations.

Instruction: The course uses modular self-paced individualized instruction as the primary instructional method. Course topics cover photographic laboratory supervision; documentary news photography, including caption writing, feature picture, basic news writing, spot news, layout and page makeup, picture story, and picture essay; and media selection, including presentation objectives analysis, audience analysis, content outline development, presentation method, storyboard development, master script, visual and narrative production, assembly and programming, general interest slide show, and multimedia presentation.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in photojournalism or audio-visual (1/77).

NV-1709-0011

TACTICAL PHOTOGRAPHIC INTERPRETATION

Course Number: None.

Location: Photographic Interpretation Center, Washington, DC.

Length: 11 weeks (312 hours).

Exhibit Dates: 1/54-12/68.

Objectives: To train enlisted personnel to interpret aerial photographs for military purposes.
1-138  COURSE EXHIBITS

Instruction: Lectures and practical exercises in tactical photographic interpretation. Course includes required orientation of cameras and other equipment, mathematical reading, and identification exercises of tactical or military items on aerial photographs.

Credit Recommendation: In the vocational certificate category, 3 semester hours in photographic interpretation (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 3 semester hours in photographic interpretation (12/68).

NV-1709-0012

STRATEGIC PHOTOGRAPHIC INTERPRETATION

Course Number: None
Location: Photographic Interpretation Center, Washington, DC.
Length: 10 weeks (238 hours).
Exhibit Dates: 1/54-12/68.
Objectives: To train enlisted personnel to interpret aerial photographs.

Instruction: Lectures and practical exercises in strategic photographic interpretation. Course includes photogeometrics and measurement, related mathematics, stereo comparator, and more extensive analysis and interpretation of aerial photographs for targeting purposes.

Credit Recommendation: In the vocational certificate category, 3 semester hours in photographic and interpretation (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 3 semester hours in photographic interpretation (12/68).

NV-1709-0013

IOIC PHOTOGRAPHIC PROCESSING OFFICER

Course Number: D-7F-010.
Location: Reconnaissance Attack Squadron Three, Albany, GA.
Length: 4 weeks (160 hours).
Exhibit Dates: 5/69-Present.
Objectives: To train officers to supervise a photographic laboratory. Lectures and practical exercises in IOIC photographic system orientation; photographic processing control, including sensitometry and desentometry; processing and support equipment, printers, equipment maintenance; and applications to fleet operations.

Credit Recommendation: In the vocational certificate category, 2 semester hours in photographic processing or photofinishing on the basis of institutional examination (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in photographic processing or photofinishing on the basis of institutional examination (7/74); in the upper-division baccalaureate category, 2 semester hours in photographic processing or photofinishing on the basis of institutional examination (7/74).

NV-1709-0014

METRICAL PHOTOGRAPHIC INTERPRETATION

Course Number: None.
Location: Photographic Interpretation Center, Washington, DC.
Length: 14 weeks (401 hours).
Exhibit Dates: 1/54-12/68.
Objectives: To train enlisted personnel to interpret aerial photographs.

Instruction: Lectures and practical exercises in aerial photographic interpretation, including map orientation, appropriate mathematics, position determination, reconnaissance surveying, map and chart projections, photogeometrics, stereocomparative, cartography, and trimetrogon mapping.

Credit Recommendation: In the vocational certificate category, 3 semester hours in photographic interpretation (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 4 semester hours in photographic interpretation (12/68).

NV-1709-0015

RADAR (TARGET) INTELLIGENCE

Course Number: Not available.
Location: Photographic Interpretation Center, Washington, DC.
Length: 11 weeks (440 hours).
Exhibit Dates: 4/54-12/68.
Objectives: To train enlisted personnel to interpret radar scope images and aerial photographs.

Instruction: Lectures and practical exercises in photograph analyzing for building density, height, types of structures; principles of radar reflection, distortion, and interpretation; and radar scope photographic interpretation and plotting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in photographic interpretation (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 4 semester hours in photographic interpretation (12/68).

NV-1709-0016

MEDICAL PHOTOGRAPHY TECHNIC (MEDICAL PHOTOGRAPHY TECHNICIAN, CLASS C)

Course Number: B-400-10.
Location: Naval Medical School, Bethesda, MD.
Length: 24-26 weeks (900-1260 hours).
Exhibit Dates: 1/55-Present.
Objectives: To train enlisted personnel to take, process, and print black and white and color still and motion pictures relating to scientific, clinical, surgical, and pathological fields.

Instruction: Lectures and practical exercises in medical photography, including basic principles of photography, camera operation, optics, light meters, filters, film processing, and darkroom procedures for both black and white and color films, photo copying, slide duplication and mounting, slide projection, medical-related photographic technique in infrared and ultraviolet, photomicrography, cinematography, and motion picture projection.

Credit Recommendation: In the vocational certificate category, 4 semester hours in photography, 4 in medical photography (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in photography, 4 in medical photography (7/74); in the upper-division baccalaureate category, 4 semester hours in photography, 12 in medical photography (12/68).

NV-1709-0017

ILLUSTRATIVE PHOTOGRAPHY CI

Course Number: C-400-2021.
Location: Naval Technical Training Center, Coral Station, Pensacola, FL.
Length: Self-paced 6 weeks (212 hours).
Exhibit Dates: 10/76-Present.
Objectives: To provide training or skills updating in the areas of macrophotography and illustrative, architectural, and portrait photography.

Instruction: The course uses modular self-paced, individualized instruction as the primary instructional method. Course topics cover photographic laboratory supervision, illustrative photography, including the Kodak Ektamatic print processor, macrophotography, composition, and architectural photography; and studio lighting/portraiture.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in photography (studio/architectural/portraiture) (1/77).

NV-1709-0018

PHOTOGRAHIC LABORATORY TECHNICIAN CI

Course Number: C-400-2020.
Location: Naval Technical Training Center, Coral Station, Pensacola, FL.
Length: Self-paced 6 weeks (213 hours).
Exhibit Dates: 10/76-Present.
Objectives: To provide initial journeyman training or skills updating in color printing and processing, printing and processing machine operation, and chemical process quality control.

Instruction: The course uses modular self-paced, individualized instruction as the primary instructional method. Course topics cover photographic laboratory supervision; laboratory support equipment familiarization, including sensitometry, film speed, process effect and uniformity, chemical monitoring and process control, replenishment rates, statistical and sensitometric evaluation, gamma and tone, reproduction, and color processing, including the master print, basket processing, visual evaluations, off-edgel and on-edgel spot evaluations, and calibration and indexing of color analyzer.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in photography or photographic technician training (1/77).

NV-1710-0001

1. BOILER TECHNICIAN, CLASS A1 (600 PSI)
2. BOILER TECHNICIAN, CLASS A1 (1200 PSI)
3. BOILERMAKER, CLASS A

Course Number: A-651-0010.
Location: Service School Command, Great Lakes, IL.
Objectives: To train enlisted personnel to operate, maintain, and repair marine boilers, pumps, and associated machinery.

Instruction: Lectures and practical exercises in boiler maintenance and repair, distilling plant operation, fuel oil and auxiliary equipment operation, and firetube operation, maintenance, and material management. Instruction includes basic mathematics, tools and materials, valves, and basic steam plant principles.

Exhibit Dates: 12/69-Present.

Location: Air Technical Training Center, Lakehurst, NJ.

Length: 5 weeks (192 hours).

Course Number: C-680-2013.

Objectives: To train enlisted personnel to operate, inspect, and maintain the CVA catapult's steam and drain systems and related components.

Instruction: Lectures and practical exercises in the operation, inspection, and maintenance of C-13 catapults and related equipment, including fundamentals of catapult operation and design, launching and recovery procedures, and description, nomenclature, operation, and preventive maintenance of hydropneumatic and steam catapults.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1710-0008

CVA CATAPULT STEAM AND DRAIN SYSTEM, CLASS C

Course Number: Not available.

Location: Air Technical Training Center, Lakehurst, NJ.

Length: 4 weeks (160 hours).

Exhibit Dates: 4/71-Present.

Objectives: To train enlisted personnel to operate and maintain CVA catapults and related equipment, and the MK 5 and MK 7 arresting gear, barriers, and barricades.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of C-4, H-4, H-8, and C-13 catapults and related equipment, and the MK 5 and MK 7 arresting gear, barriers, and barricades.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1710-0009

CATA PULT AND ARRESTING GEAR, CLASS C

Course Number: Not available.

Location: Air Technical Training Center, Lakehurst, NJ.

Length: 5 weeks (220 hours).

Exhibit Dates: 1/66-Present.

Objectives: To train enlisted personnel to operate, inspect, and maintain H-8 catapults and related equipment, Mk 5 arresting gear and barricades, Mk 1 Mod 1 and Mk 6 Mod 1 visual landing aids, and shore-based arresting gear.

Instruction: Lectures and practical exercises in the operation, inspection, and maintenance of H-8 catapults and related equipment, Mk 5 arresting gear and barricades, Mk 1 Mod 1 and Mk 6 Mod 1 visual landing aids, and shore-based arresting gear, including principles and design of catapults, component operations, launching and recovery systems, control panel operation, and description and nomenclature of hydropneumatic and steam catapults.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).
1-140  COURSE EXHIBITS

INSTRUCTION: Lectures and practical exercises in the operation and maintenance of CVA catapult electrical systems and related components, including engine systems, electrical systems, steam and diesel boilers, AC-DC generator equipment, systems, controls, and equipment; launching and retraction of steam catapults; circuits and electrical components in catapult control rooms, generators, air compressors, cranes, forklifts, forklifts, and special tools; maintenance, repair, and trial operation of equipment, including arresting gear, and SATS barricades; launching equipment, catapult systems, and control systems; and operational procedures and field operations.

CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (3/74).

NV-1710-0011  AUTOMATIC COMBUSTION CONTROL MAINTENANCE

COURSE NUMBER: A-651-021.
LOCATION: Destroyer School, Newport, RI.
LENGTH: 3 weeks (90 hours).
OBJECTIVES: To train officers to maintain automatic combustion control equipment in boilers.
INSTRUCTION: Lectures and practical exercises in the maintenance of automatic combustion control equipment in boilers, including safety precautions, boiler and machinery dynamics, modes of control, measuring principles, calibration, signal tracing, component operation, and troubleshooting procedures.
CREDIT RECOMMENDATION: Insufficient data for evaluation (3/74).

NV-1710-0012  ENGINEERING WATCH OFFICER

COURSE NUMBER: G-4H-6191; G-651-6191.
LOCATION: Amphibious Base, Little Creek, VA.
LENGTH: 2 weeks (60 hours).
OBJECTIVES: To train officers to be engineering watch officers on amphibious ships.
INSTRUCTION: Lectures on the operation of steam and diesel boilers, AC-DC generator systems, switchboard controls, electrical safety precautions, electromechanical systems, operation, auxiliary equipment operation, and engineering administration.
CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (4/74).

NV-1710-0013  PROSPECTIVE ENGINEERING OFFICER ORIENTATION

COURSE NUMBER: A-4H-0024.
LOCATION: Development and Training Center, San Diego, CA.
LENGTH: 4 weeks (140 hours).
OBJECTIVES: To train officers to operate and maintain steam-powered ship engine room equipment.
INSTRUCTION: Lectures and practical exercises in basic electrical circuits, hydraulics, basic hydraulics, hydraulics, steam systems, controls, pumps, valves, and controls; hydraulics power unit, transfer head ram tensioner, multidirectional fork truck, and sealed transmissions operation; and personnel transfer equipment operation.
CREDIT RECOMMENDATION: No credit because of the military nature of the course (4/74).

NV-1710-0014  MARINE CORPS SHORT AIRFIELD FOR TACTICAL SUPPORT, CLASS C

COURSE NUMBER: Not available.
LOCATION: Air Technical Training Center, Lakehurst, NJ.
LENGTH: 5 weeks (200 hours).
OBJECTIVES: To train enlisted personnel to install, inspect, operate, and maintain SATS launching and recovery equipment.
INSTRUCTION: Lectures and practical exercises in installation, inspection, operation, and maintenance of support equipment, including runway matting, generators, air compressors, cranes, forklifts, forklifts, and special tools; recovery equipment, including arresting gear and SATS barricades; launch equipment, catapult systems, and control systems; and operational procedures and field operations.
CREDIT RECOMMENDATION: No credit because of the military nature of the course (4/74).

NV-1710-0015  STANDARD TENSIONED REPLENISHMENT (ALONG MTe溪c STREAM) RIGGING AND PASSING (UNREP RIGGING PROCEDURES)

COURSE NUMBER: A-551-0025.
LOCATION: Naval Schools Command, Treasure Island, CA.
LENGTH: 3 weeks (95-105 hours).
OBJECTIVES: To train enlisted personnel to operate a tensioned, high-level sending system.
INSTRUCTION: Lectures and practical exercises in tensioned, high-line system operation, including standard methods of replenishment at sea, preventive maintenance of station components, safety precautions, and emergency breakaway procedures.
CREDIT RECOMMENDATION: In the vocational certificate category, 2 semester hours in heavy construction equipment (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in construction (4/74).

NV-1710-0016  UNREP HYDRAULIC AND MECHANICAL COMPONENT MAINTENANCE (SENDING UNITS)

COURSE NUMBER: A-551-0027.
LOCATION: Naval Schools Command, Treasure Island, CA.
LENGTH: 10 weeks (300 hours).
OBJECTIVES: To train enlisted personnel to maintain the shipboard UNREP's hydraulic and mechanical components.
INSTRUCTION: Lectures and practical exercises in basic electricity; basic hydraulics; basic hydraulics; circuit analysis; sealings; sealing materials; hydraulic systems; actuators; pumps, valves, and controls; hydraulics power unit, transfer head ram tensioner, multidirectional fork truck, and sealed transmissions operation; and personnel transfer equipment operation.
CREDIT RECOMMENDATION: In the vocational certificate category, 3 semester hours as an elective in industrial or mechanical technology (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in industrial or mechanical technology (4/74).

NV-1710-0017  EQUIPMENT OPERATORS, CLASS A (EO"A")

LOCATION: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS. Version 2: Construction School, Davisville, RI.
OBJECTIVES: To train enlisted personnel to operate, adjust, and service heavy construction equipment.
INSTRUCTION: Lectures and practical exercises in automotive vehicle, front-end loader, forklift, grader, and crawler tractor operations, maintenance, and service, including internal-combustion engine basic principles, fuels and lubricants, earthwork fundamentals; equipment production; hauling, loading, and lifting equipment adjustment, operation, and servicing; and soil compactors, crane, tractors, and tractor-drawn scrapers operation.
CREDIT RECOMMENDATION: Version 1: In the vocational certificate category, 6 semester hours in heavy construction equipment (7/76); in the lower-division baccalaureate/associate degree category, 2 semester hours in construction (4/74).

NV-1710-0018  EQUIPMENT OPERATOR, CLASS B (EO"B")

LOCATION: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS.
OBJECTIVES: To train equipment operators to supervise personnel in construction, earth moving, road building, rock crushing, and asphalt mixing and paving operations.
INSTRUCTION: Version 1: Instruction includes soil identification; earthwork computations; operation of rock crushers; asphalt plants and pavers; operation and maintenance of cranes, crawlers, wheel tractors, and scrapers; and roadway foundations. Version 2: Lectures and practical exercises in instructional techniques, job planning, dispatching, records and reports; and earth moving, road building, rock crushing, and asphalt mixing and paving equipment nomenclature, lubrication, preventive maintenance, safety procedures,
Adjustments, repairs, and grading of boilers, and operation and maintenance of related systems, including fuel oil systems, air and ventilation systems, auxiliary systems, engineering administration, and steam plant laboratory.

Credit Recommendation: Insufficient data for evaluation (4/74).

NV-1710-0019
1200 PSI MAIN PROPULSION ASSISTANT
Course Number: A-41H-021.
Location: Destroyer School, Newport, RI.
Length: 12 weeks (360 hours).
Exhibit Dates: 7/69-Present.
Objectives: To train enlisted personnel to repair boilers.
Instruction: Lectures and practical exercises in boiler inspection and maintenance, including steam theory, boiler overhaul, boiler waterside and fireside maintenance, tube renewal and plugging, precision tools operation, fuel oil heaters and coolers, and valve and pump repair.
Credit Recommendation: Insufficient data for evaluation (4/74).

NV-1710-0020
1200 PSI ENLISTED MAINTENANCE
Course Number: A-651-020.
Location: Destroyer School, Newport, RI.
Length: 5 weeks (150 hours).
Exhibit Dates: 7/69-Present.
Objectives: To train enlisted personnel to inspect and maintain boilers.
Instruction: Lectures and practical exercises in boiler inspection and maintenance, including steam theory, boiler overhaul, boiler waterside, and fireside maintenance, tube renewal and plugging, precision tools operation, fuel oil heaters and coolers, and valve and pump repair.
Credit Recommendation: Insufficient data for evaluation (4/74).

NV-1710-0021
1200 PSI BT ORIENTATION/OPERATION
Course Number: A-651-0037.
Location: Boilermaker School, San Diego, CA.
Length: 3-4 weeks (106–140 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel to operate shipboard boilers and associated equipment.
Instruction: Lectures and practical exercises in shipboard boiler construction and operation, fire alarm procedures, damage control, lighting off and securing main boilers, and underwear watch standing and casualty control.
Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in building maintenance (4/74).

NV-1710-0022
1200 PSI PROSPECTIVE ENGINEERING OFFICER
Course Number: A-4H-020.
Location: Destroyer School, Newport, RI.
Length: 4 weeks (120 hours).
Exhibit Dates: 12/69-Present.
Objectives: To train enlisted personnel to inspect and maintain boilers and related systems.
Instruction: Lectures and practical exercises in the inspection and maintenance of boilers and related systems, including component and system analysis, modes of control and control loops, measuring principles, and electrical and propulsion casualty control.
Credit Recommendation: Insufficient data for evaluation (4/74).

NV-1710-0023
1. LST 1179/1182 CLASS CONTROLLABLE PITCH PROPELLER AND PROPULSION CONTROLS, CLASS C
2. ENGINEMAN, CLASS C/ST 1 CLASS CONTROLLABLE PITCH PROPELLER AND PROPULSION CONTROL SYSTEM
Course Number: A-652-0055.
Location: Propulsion Engineering School, Great Lakes, IL.
Length: Version 1: 4 weeks (150 hours).
Version 2: 3 weeks (102 hours).
Objectives: To train enlisted personnel who have taken a basic engineering course to operate, maintain, and troubleshoot variable-pitch ship propellers and associated control equipment.
Instruction: Lectures and practical exercises in the operation, maintenance, and troubleshooting of variable-pitch ship propellers and associated control equipment, including introduction to hydraulic and pneumatic systems, analysis of various circuits, component assembly, and operation of specific variable-pitch propellers and associated controls.
Credit Recommendation: Insufficient data for evaluation (4/74).

NV-1710-0024
STEAM COMPONENTS (ENLISTED)
Course Number: F-000-035.
Location: Naval Submarine School, Groton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel to operate and maintain steam components.
Instruction: Lectures and practical exercises in the operation and maintenance of steam components, including instruction on steam reducing valves, steam traps, flexible gaskets, control valves, hotwell level control systems, steam generator relief and pilot automatic drain valves, hydrostatic testing, feed water control valves, steam generator output control valve, condenser repair, steam root valve manifold, and steam generator sight glasses.
Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in building maintenance (4/74).

NV-1710-0025
SUBMARINE LOW PRESSURE AND VAPOR COMPRESSION DISTILLING UNITS, CLASS C
Course Number: F-652-026.
Location: Submarine School, Groton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel to operate, maintain, and repair low-pressure and vapor compression distilling units.
Instruction: Lectures and practical exercises in the operation, maintenance, and repair of low-pressure and vapor compression distilling units, including operation and troubleshooting of low-pressure distilling steam systems, valves and meters, pumps, traps, condensers, gages, and compressors, and similar components of the vapor pressure distilling system.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1710-0026
ORDNANCE HANDLING EQUIPMENT INTERMEDIATE MAINTENANCE
Course Number: C-646-3119.
Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, Norfolk, VA; Air Maintenance Training Detachment, Alameda, CA; Air Maintenance Training Detachment, North Island, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 8/71-Present.
Objectives: To train enlisted personnel to maintain ordnance-handling equipment at the intermediate level.
Instruction: Lectures and practical exercises in the maintenance of ordnance-handling equipment, including operation, servicing, and inspection of specific skids, hoists, and bomb trucks.
Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1710-0027
UTILITIEMAN, SHORE BASED BOILER CONTROLS, CLASS C
Course Number: A-720-0022.
Location: Construction Training Center, Gulfport, MS; Construction Training Center, Port Hueneme, CA.
Length: 7 weeks (222 hours).
Exhibit Dates: 11/72-Present.
Objectives: To provide the enlisted technician with advanced technical skills and knowledge in electrical and pneumatic controller systems components, safety switches, and testing meters to troubleshoot, repair, operate, and maintain steam heating boilers.
Instruction: Lectures and practical exercises in boiler equipment fittings and controls, basic electricity, electrical circuits, automatic, and pneumatic controls.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, 2 in electrical circuitry, and 1 in boiler controls (7/76).
NV-1710-0029
COURSE EXHIBITS

CATAPULT, ARRESTING GEAR AND VISUAL LANDI NG AIDS (CVS) (H-8)

Course Number: Not available.
Location: Technical Training Center, Lakehurst, NJ.
Length: 4 weeks (176 hours).
Exhibit Dates: 11/68-Present.
Objective: To train enlisted personnel to operate, inspect, and maintain H-8 catapults and related equipment, Mk-5 arresting gear and baricades, and specific visual landing aids and shore-based arresting gear.

Instructor: Lectures and practical exercises in the operation, inspection, and maintenance of H-8 catapults and related equipment, Mk-5 arresting gear and baricades, and specific visual landing aids and shore-based arresting gear, including hydraulic, pneumatic, and electrical equipment, maintenance, and minor repair of construction equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1710-0030
LAUNCHER TECHNICIAN (TENDER)

Course Number: A-733-0017.
Location: Guided Missiles School, Dam Neck, VA.
Length: 2 weeks (72 hours).
Exhibit Dates: 1/70-Present.
Objective: To train personnel to perform as toller technicians in the operation and maintenance of fleet ballistic missile submarine tenders and missile-handling equipment.

Instructor: Lectures and practical exercises in the operation and maintenance of the missile-handling equipment found on fleet ballistic missile submarine tenders, including basic theory of handling equipment Mks 4 and 5, description of the mechanical and electrical characteristics of handling equipment components, preventive and corrective maintenance procedures, advanced troubleshooting handling equipment Mks 4 and 5, logic elements used for control and sequencing of events for the Westinghouse missile units (Mks 1 and 2), and digital fault analysis.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-1710-0031
600 BT MAINTENANCE

Course Number: A-651-0023.
Location: Development and Training Center, San Diego, CA.
Length: 3 weeks (105 hours).
Exhibit Dates: 11/72-Present.
Objective: To train personnel to perform as boiler technicians.

Instruction: Lectures and practical exercises in the repair and maintenance of 600 psi boilers and associated auxiliary machinery, including precision measurement and alignment, boiler tube work, boiler refractory, boiler safety valves, single-element feed regulators, forced-draft blowers, fuel oil service pump turbine, Leslie C/P governor, fuel oil service pump, reciprocating pumps, and hydrostatic tests.

Credit Recommendation: In the vocational certificate category, 2 semester hours in building engineering or building maintenance (5/74).

NV-1710-0032
1200 PSI BT MAINTENANCE (BOILERMAN)

Course Number: A-651-0031.
Location: Boileman School, San Diego, CA.
Length: 8 weeks (280 hours).
Exhibit Dates: 11/72-Present.
Objective: To train rated boiler technicians to maintain the 1200 PSI boilers and associated auxiliary machinery.

Instruction: Lectures and detailed practical instruction in the operational principles, construction, maintenance, and repair of the 1200 PSI steam generator and supporting auxiliary fireroom machinery, including boiler casings, boiler refractories, blueprints, precision measuring instruments, fire pump, boiler safety valves, distillate conversion fuel oil service pump, Worthington main feed pump, forced-draft blower (carrier), governors and reducing valves, and forced-draft blower (Hardy-Tyner).

Credit Recommendation: In the vocational certificate category, 5 semester hours in industrial technology, or 5 in building maintenance or building engineer (5/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in industrial technology, or 5 in building maintenance or building engineer (5/74).

NV-1710-0033
BOILERMAN, CLASS B

Course Number: A-651-0011; A-651-011.
Location: Boileman School, Philadelphia, PA.
Length: 15-22 weeks (450-660 hours).
Exhibit Dates: 1/54-Present.
Objective: To train personnel to perform as boilerman category, 10 semester hours in construction equipment internal-combustion engine operation and maintenance and repair, including internal-combustion engine principles, electrical systems, automotive power trains, malfunction diagnosis and adjustment, and safety procedures.

Credit Recommendation: In the vocational certificate category, 5 semester hours in construction equipment internal-combustion engine operation and maintenance and repair, including internal-combustion engine principles, electrical systems, automotive power trains, malfunction diagnosis and adjustment, and safety procedures.

NV-1710-0034
BUILDING/HEAVY CONSTRUCTION TECHNICIAN, CLASS C

Course Number: A-700-0018.
Location: Construction Training Center, Port Hueneme, CA.

Credit Recommendation: In the vocational certificate category, 9 semester hours in utilities maintenance and repair (7/76); in the lower-division baccalaureate/associate degree category, 6 semester hours in construction equipment motor operation and maintenance (7/76).

NV-1710-0035
CONSTRUCTION MECHANIC, CLASS A1

Course Number: A-610-0022.
Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS.

Credit Recommendation: In the vocational certificate category, 5 semester hours in utilities maintenance and repair (7/76); in the lower-division baccalaureate/associate degree category, 6 semester hours in heavy construction (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in heavy construction (5/74); in the upper-division baccalaureate category, 2 semester hours, in heavy construction (5/74).

NV-1710-0036
UTILITIESMAN, CLASS J (UTJ"")

Course Number: A-720-0013.
Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS.
Length: 14-15 weeks (420-450 hours).
Exhibit Dates: 1/60-Present.
Objective: To train enlisted personnel to repair and maintain utility systems.

Instruction: Lectures and practical exercises in utility systems maintenance and repair, including plumbing, sewage disposal, blueprint reading, boilers, refrigeration, pumps, compressors, air conditioning, water supply, and water treatment.

Credit Recommendation: In the vocational certificate category, 9 semester hours in utilities maintenance and repair (7/76); in the lower-division baccalaureate/associate degree category, 6 semester hours in construction equipment motor operation and maintenance (7/76).
associate degree category, 4 semester hours in utility maintenance and repair (7/76); in the upper-division baccalaureate category, 2 semester hours in utilities maintenance and repair (7/76).

**NV-1710-0037**

**EQUIPMENT OPERATORS/GRADWORK, CLASS C (EOC'"GRADWORK)**

- **Course Number:** A-710-0009
- **Location:** Construction Training Center, Port Huemen, CA; Construction Training Center, Gulfport, MS.
- **Length:** 3 weeks (75 hours).
- **Exhibit Dates:** 7/71-9/71.

**Objectives:** To train noncommissioned officers to perform labor operations to execution of specifications, drawings, and construction procedures, and to prepare estimates.

**Instruction:** Lectures and practical exercises in labor operations, including labor work principles, surveys, and field projects.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in utility construction (7/76); in the upper-division baccalaureate category, 2 semester hours in civil or construction engineering (7/76).

**NV-1710-0038**

**BUILDER/CONCRETE, CLASS C (BU'C"CONCRETE)**

- **Course Number:** A-710-0011; A-710-0014.
- **Location:** Construction Training Center, Port Huemen, CA; Construction Training Center, Gulfport, MS.
- **Length:** 4 weeks (100 hours).
- **Exhibit Dates:** 7/72-9/72.

**Objectives:** To train noncommissioned officers to use concrete, to produce concrete mix, to ascertain concrete quality, and to control concrete by means of tools and equipment.

**Instruction:** Lectures and practical exercises in concrete use, mixing, and handling, including concrete ingredients, concrete ingredients, and concrete specifications; design and construction of concrete mix, control and inspection of concrete, and quality control of concrete.

**Credit Recommendation:** In the vocational certificate category, 5 semester hours in construction concrete mixing, placing, and use (7/76); in the lower-division baccalaureate/associate degree category, 5 semester hours in construction concrete mixing, placing, and use (7/76).

**NV-1710-0040**

**PLATE WELDERS, CLASS C**

- **Course Number:** A-701-0025.
- **Location:** Training Center, San Diego, CA.
- **Length:** 10 weeks (300 hours).
- **Exhibit Dates:** 7/70-7/71.

**Objectives:** To train noncommissioned officers to weld various structures and hulls.

**Instruction:** Lectures and practical exercises in welding, including manual metal arc welding, shielded metal arc welding, and gas metal arc welding. Topics include principles of welding and the use of various types of electrodes in both overhead and vertical positions.

**Credit Recommendation:** In the vocational certificate category, 5 semester hours in welding (5/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in welding (5/74).

**NV-1710-0044**

**STAINLESS STEEL WELDING QUALIFICATION—PHASE I (ENLISTED)**

- **Course Number:** F-701-015.
- **Location:** Submarine School, Groton, CT.
- **Length:** 3 weeks (90 hours).
- **Exhibit Dates:** 7/67-12/68.

**Objectives:** To train stainless steel welders to make limited emergency welds on reactor plant systems.

**Instruction:** Lectures and practical exercises in welding of reactor plant systems, including fillet welds on pipe, welding of stainless steel and specialty pipe welding in overhead and vertical positions, and identification of welding defects using liquid dye penetrant methods of inspection.

**Credit Recommendation:** No credit because of the military nature of the course (5/74).

**NV-1710-0046**

**WELDING FOR NUCLEAR POWER PLANT OPERATORS, COURSE V**

- **Course Number:** F-701-010; A-701-014; A-701-015.
- **Location:** Submarine School, San Diego, CA; Welding School, Class C, San Diego, CA.
- **Length:** 16 weeks (486 hours).
- **Exhibit Dates:** 1/63-12/70.

**Objectives:** To provide enlisted personnel with training in arc and oxyacetylene welding.

**Instruction:** Lectures and practical exercises in welding for use by nuclear power plant operators. Topics include principles of manually shielded metal and arc welding; arc welding of the root pass inlined metal welding; identification of welding defects using liquid dye penetrant methods of inspection; and site selection procedures, assembly, and operating the plant.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in welding (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in welding (5/74).
nuclear power plant welding, preparation and inspection of welded joints, seal welding joints, pipe welding in fixed position, restricted access in confined spaces, and oxyacetylene torch brazing and cutting.

Credit Recommendation: In the vocational certificate category, 6 semester hours in welding (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in welding (5/74).

**Stainless Steel Welding (Requalification) (MAINTENANCE OF WELDING QUALIFICATIONS)**

Course Number: I-701-0004
Location: Fleet Submarine Training Facility, Pearl Harbor, HI, Fleet Submarine Training Facility, Groton, CT
Length: 3–4 weeks (84–160 hours)
Exhibit Dates: 12/69–Present

Instruction: Lectures and practical exercises in stainless steel welding. Course includes preparation and inspection of welded joints; manually shielded metal arc welding using the W-1 and W-7A coated electrodes, manual inert-gas tungsten-arc welding of the root pass in welded joints using a consumable insert; and a qualification test.

Credit Recommendation: In the vocational certificate category, 2 semester hours in welding (5/74).

**High Pressure Pipe Welders**

Course Number: A-701-0026
Location: Welding School, Class C, San Diego, CA
Length: 4 weeks (120 hours)
Exhibit Dates: 7/70–Present

Objectives: To train enlisted personnel to perform manual steel arc welds on carbon steel or copper-nickel pipe.

Instruction: Lectures and practical exercises in manual metal arc welding in carbon steel pipe, in fixed-restricted vertical and horizontal positions and in manual metal arc welds on copper-nickel pipe using copper-nickel electrodes in fixed-restricted vertical and horizontal positions.

Credit Recommendation: In the vocational certificate category, 1 semester hour in pipe welding (5/74).

**Pipe Welders**

Course Number: A-701-0050
Location: Welding School, Class C, San Diego, CA
Length: 4 weeks (120 hours)
Exhibit Dates: 7/70–Present

Objectives: To train enlisted personnel to perform manual steel arc welds on carbon steel or copper-nickel pipe.

Instruction: Lectures and practical exercises in manual metal arc welding in carbon steel pipe, in fixed-restricted vertical and horizontal positions and in manual metal arc welds on copper-nickel pipe using copper-nickel electrodes in fixed-restricted vertical and horizontal positions.

Credit Recommendation: In the vocational certificate category, 1 semester hour in pipe welding (5/74).

**Credit Recommendation:** No credit because of the military nature of the course (5/74).

**Pressure Hull Welders**

Course Number: A-701-0029
Location: Service School Command, San Diego, CA
Length: 2 weeks (60 hours)
Exhibit Dates: 11/70–Present

Objectives: To train enlisted personnel to perform manual metal arc welds on steel alloy or austenitic steel plate.

Instruction: Lectures and practical exercises in the metal arc welding of steel alloy and austenitic steel hull plate in fixed-overhead and vertical positions, and the general properties and characteristics of hull plate.

Credit Recommendation: In the vocational certificate category, 1 semester hour in pipe welding (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in pipe welding (5/74).

**Steelworker/Welding Certification, Class C (SW/C WELDING CERTIFICATION)**

Course Number: A-701-0038
Location: Construction, Training Center, Port Hueneme, CA; Construction, Training Center, Gulfport, MS
Length: 4 weeks (120 hours)
Exhibit Dates: 11/62–Present

Objectives: To provide enlisted personnel with training in arc welding, flux welding, fusion welding, oxyacetylene welding, oxy-fuel gas welding, brazing, and welding carbon steel piping, and the general properties and characteristics of hull plate.

Credit Recommendation: In the vocational certificate category, 2 semester hours in welding (7/76); in the lower-division baccalaureate/associate degree category, 1 semester hour in welding (7/76).

**Advanced Welding (Welding Course I)**

Course Number: Not available
Location: Welding School, Class C, San Diego, CA
Length: 12 weeks (360–390 hours)
Exhibit Dates: 11/63–12/68

Objectives: To train enlisted personnel to weld and braze ship structures and piping.

Instruction: Lectures and practical exercises in hight-strength steel pipe welding. Course includes manual metal arc welding of steel pipe with carbon-molybdenum high-pressure piping systems.

Credit Recommendation: In the vocational certificate category, 1 semester hour in pipe welding (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in pipe welding (5/74).

**Credit Recommendation:** No credit because of the military nature of the course (5/74).

**Intermediate Welding (Welding Course II)**

Course Number: Not available
Location: Welding School, Class C, San Diego, CA
Length: 4 weeks (120 hours)
Exhibit Dates: 6/70–Present

Objectives: To train enlisted personnel to perform manual steel arc welds on carbon-molybdenum high-pressure piping systems.

Instruction: Lectures and practical exercises in high-strength steel pipe welding. Course includes manual metal arc welding of steel pipe with carbon-molybdenum electrodes; manual metal arc welding of steel pipe with chrome-molybdenum electrodes; and gas tungsten-arc welding of carbon steel pipe with root inserts.

Credit Recommendation: In the vocational certificate category, 1 semester hour in pipe welding (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in pipe welding (5/74).

**Credit Recommendation:** No credit because of the military nature of the course (5/74).

**Credit Recommendation:** No credit because of the military nature of the course (5/74).
with copper-nickel electrodes, and shielded inert-gas metal-arc welding of aluminum (M.I.G.).

Credit Recommendation: In the vocational certificate category, 2 semester hours in welding/metallurgy (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in welding/metallurgy (7/74).

NV-1710-0056
AUTOMATED PROPULSION SYSTEM OPERATOR, CLASS C
Course Number: A-651-0036.
Location: Service School Command, San Diego, CA.
Length: 6 weeks (180 hours).
Exhibit Dates: 1/72-Present.
Objectives: To train enlisted personnel in automated propulsion system controls and in engineering plant concepts, with particular emphasis on burner management, throttle control, and propulsion equipment.

Instruction: Lectures and practical exercises in automated propulsion system controls and in engineering plant concepts. Course includes analog systems, pneumatic control systems, and critical ship systems, Bailey 760 system, input and output control signals, and practical use of schematics and flow charts, central operations system, engine room console, bridge console, and plant operations.

Credit Recommendation: In the vocational certificate category, 3 semester hours as a technical elective in mechanical maintenance (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as a technical elective in mechanical maintenance (7/74).

NV-1710-0057
PROPULSION SH AFT-COMPONENTS
Course Number: L-661-020.
Location: Flet Submarine Training Facility, Pearl Harbor, HI; Naval Submarine Philosophy, Groton, CT.
Length: 2-3 weeks (60-105 hours).
Exhibit Dates: 11/66-Present.
Objectives: To train enlisted personnel to maintain the propulsion shaft components found on nuclear-powered submarines.

Instruction: Lectures and practical exercises in the maintenance of propulsion shaft components. Course includes principles of operation, theory of construction, and practical training in the repair of propulsion shaft components.

Credit Recommendation: In the vocational certificate category, 1 semester hour as a technical elective in mechanical or industrial programs (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as a technical elective in mechanical, or industrial programs (7/74).

NV-1710-0058
OFFICER DAMAGE CONTROL
Course Number: Not available.
Location: Damage Control Training Center, Philadelphia, PA; Naval Schools Command, Treasure Island, CA.
Length: 4 weeks (120 hours).
Exhibit Dates: 5/66-12/68.
Objectives: To train enlisted personnel to perform as damage control assistants.

Instruction: Lectures and practical exercises in the duties and skills necessary to perform as a damage control assistant. Course includes damage identification and control, and repair procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1710-0059
ENGINEER OFFICER (AMPHIBIOUS SHIP)
Course Number: G-4H-6190.
Location: Amphibious School, Norfolk, VA.
Length: 4-6 weeks (160-240 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train officers as amphibious ship engineering officers.

Instruction: Lectures and practical exercises in the duties of amphibious ship engineering officers, including boiler maintenance, steam and diesel propulsion, ship engineering organization, auxiliary machinery, electrical power distribution and equipment, and basic electrical principles and applications to shipboard equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1710-0060
MACHINIST'S MATE, ENLISTED MAINTENANCE
Course Number: A-651-016.
Location: Destroyer School, Newport, RI.
Length: 4 weeks (120 hours).
Exhibit Dates: 12/69-Present.
Objectives: To train enlisted personnel to perform as machinist's mates.

Instruction: Lectures and practical exercises in the duties and skills necessary to perform as machinist's mates.

Credit Recommendation: Insufficient data for evaluation (7/74).

NV-1710-0061
MARINE AIRCRAFT LAUNCH AND RECOVERY EQUIPMENT, CLASS A
Course Number: C-680-2015.
Location: Air Technical Training Center, Lakehurst, NJ.
Length: 8 weeks (320 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel to operate and maintain aircraft launching and recovery equipment.

Instruction: Lectures and practical exercises in aircraft launching and recovery equipment operation and maintenance, including survival and emergency equipment, heavy equipment, and arresting gear.

Credit Recommendation: In the vocational certificate category, 2 semester hours in heavy equipment technology (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in heavy equipment technology (7/74).

NV-1710-0062
EQUIPMENT OPERATORS/ASPHALT PAVING AND PLANT OPERATION, CLASS C (EOC-A ASPHALT)
Course Number: A-730-0017.
Location: Construction Training Center, Gulfport, MS; Construction Training Center, Port Hueneme, CA.
Length: 7 weeks (210 hours).
Exhibit Dates: 2/72-Present.
Objectives: To train personnel in the operating techniques and supervisory skills required for asphalt paving and plant operation.

Instruction: Lectures and practical exercises in asphalt paving and plant operation, including plant components, plant disassembly, plant erection, asphalt construction materials, design and control, production equipment, placement equipment, protective coatings, producing and laying asphalt, and pavement failure and repair.

Credit Recommendation: In the vocational certificate category, 4 semester hours in asphalt paving construction (7/76); in the lower-division baccalaureate/associate degree category, 1 semester hour in asphalt paving construction (7/76).

NV-1710-0063
BUILDERS, CLASS A (BU'S A')
Course Number: A-710-0010.
Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS; Construction Training Center, Davisville, RI.
Length: 9-12 weeks (280-370 hours).
Exhibit Dates: 3/60-Present.
Objectives: To train personnel as builders.

Instruction: Lectures and practical exercises in the duties of builders, including hand tools and portable machinery, construction materials, construction rigging, blueprint reading, woodworking and mill work, construction carpentry, concrete, concrete finishing and masonry construction, roofing, painting, glazing and composition tile, and field and waterfront structures.

Credit Recommendation: In the vocational certificate category, 8 semester hours in construction technology (7/76); in the lower-division baccalaureate/associate degree category, 2 semester hours in construction technology (7/76).

NV-1710-0064
EQUIPMENT OPERATORS/BLASTING AND QUARRY OPERATIONS, CLASS C (EOC-B BLASTING AND QUARRY OPERATIONS)
Course Number: A-730-0019; A-710-012.
Location: Construction Training Center, Port Hueneme, CA.
Length: 4 weeks (120 hours).
Exhibit Dates: 6/65-Present.
Objectives: To train enlisted personnel to supervise quarry operations.

Instruction: Lectures and practical exercises in drilling, placing charges, detonation procedures, construction blasting, quarry layout, development and operation of a quarry, and rock-crushing plant operation.

Credit Recommendation: In the vocational certificate category, 3 semester hours in quarry foremanship (7/74).
NV-1710-0065
CONSTRUCTION MECHANIC, CLASS J
(CM- 'J')
(CONSTRUCTION MECHANIC, CLASS B)
Course Number: A-610-0011; A-610-0015
Location: Construction Training Center,
Gulfport, MS; Construction Training Center,
Port Hueneme, CA.
Length: 14-15 weeks (420-450 hours).
Exhibit Dates: 2/6/75-Present.
Objectives: To train enlisted personnel to
maintain equipment, repair, and overhaul of
automotive materials and parts.
Instruction: Lectures and practical exercises
in the repair and maintenance of con-
struction equipment, basic mathematics,
principles of vehicle and equipment
construction, automotive, heavy equip-
ment, construction, and automotive
repair.
Credit Recommendation: In the voca-
tional certificate category, 9 semester hours
in construction equipment repair manage-
ment (7/76).

NY-1710-0066
1. MARINE GAS TURBINE BASIC, CLASS C1
2. ENGINEER, CLASS C, MARINE GAS
TURBINE BASIC
Course Number: A-652-0027.
Location: Propulsion Engineering School,
Great Lakes, II.
Length: Version 1: 6 weeks (213 hours).
Version 2: 4 weeks (120 hours).
Exhibit Dates: Version 1: 8/77-Present.
Version 2: 8/76-77.
Objectives: To provide the required
technical knowledge and skills for entry
into specific gas turbine system courses.
Instruction: Lectures and practical exer-
cises in the theory, operation, and charac-
teristics of gas turbine engines, assemblies,
subassemblies, and component parts.
Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 3 semester hours in gas tur-
bine basic (7/77); in the lower-
division baccalaureate/associate degree
category, 3 semester hours in gas tur-
bine basic (7/78).

NY-1710-0067
SOLAR T-10205-11A SATURN ENGINE,
CLASS C1
(ENGINEER, CLASS C, SOLAR T-10205,
11A SATURN ENGINE)
Course Number: A-652-0068.
Location: Propulsion Engineering School,
Great Lakes, II.
Length: 3 weeks (85 hours).
Exhibit Dates: 8/77-Present.
Objectives: To teach the knowledge and
skills of petty officers with Gas Tur-
bine System Technician ratings for more
advanced performance of duties.
Instruction: Lectures and practical exercises
in operating, testing, adjusting, and
diagnosing and repairing mechanical func-
tions in the Solar Saturn gas turbine engine.
Credit Recommendation: No credit becau
se of the refresher nature of the course
(9/77).

NY-1710-0068
STEELWORKER, MAINTENANCE WELDING
TECHNICIAN, CLASS C
(SW-C"C" MAINTENANCE WELDING)
Course Number: A-701-0037.
Location: Construction Training Center,
Port Hueneme, CA; Construction Training
Center, Gulfport, MS.
Length: 4-5 weeks (120-150 hours).
Exhibit Dates: 7/77-Present.
Objectives: To provide instruction in the repair
of machinery by welding.
Instruction: Lectures and practical exercises
in welding consumables; applied weld-
ing, metallurgy, and general and high
strength brazing of steel; heat treatment of
metals and silver brazing of steel; welding
processes and silver brazing of stainless
steel; welding consumable selection and
silver brazing of brass, stress analysis, and
cast iron and aluminum welding; welding
processes and torch soldering; techniques
of arc welding in maintenance; and wear-
faceing in maintenance welding and gas
tungsten arc in maintenance welding.
Credit Recommendation: In the voca-
tional certificate category, 2 semester hours
in advanced welding (7/76); in the lower-
division baccalaureate/associate degree
category, 2 semester hours in advanced
welding (7/78).

NY-1710-0069
NUCLEAR POWER PLANT COMPONENTS
WELDER, CLASS C
Course Number: A-701-0028.
Location: Welding School, San Diego,
CA.
Length: 14 weeks (447 hours).
Exhibit Dates: 10/73-Present.
Objectives: To train personnel to weld
reactor coolant and associated systems in a
nuclear power plant.
Instruction: Topics include introduction
to nuclear power plant components weld-
ing, welding consumable material, pipe butt
and socket type joints, and upper seal weld of
a beveled component.
Credit Recommendation: In the voca-
tional certificate category, 6 semester hours
in advanced or specialized welding (6/75); in
the lower-division baccalaureate/associate
degree category, 3 semester hours in advanced
or specialized welding (6/75).

NY-1710-0070
GENERAL PUMP MAINTENANCE
Course Number: F-000045.
Location: Submarine School, Groton,
CT.
Length: 3 weeks (105 hours).
Exhibit Dates: 3/70-Present.
Objectives: To train personnel to recog-
nize, operate, maintain, and repair various
types of liquid pumps and their com-
ponents.
Instruction: Lectures and practical exercises
in pump classification and application and
shaft seals, couplings, valves, and other
pump components and their maintenance.
Credit Recommendation: In the voca-
tional certificate category, 2 semester hours
in construction equipment (pump main-
tenance) (5/74).

NY-1710-0071
AIRCRAFT LAUNCH AND RECOVERY
EQUIPMENT (C-7/11 CATAPULT),
CLASS C
Course Number: Non-
Location: Air Technical Training Center,
Lakehurst, N J.
Length: 7 weeks (352 hours).
Exhibit Dates: 10/70-Present.
Objectives: To train selected personnel in
the operation, inspection, and maintenance
of C-7/11 catapulls and related equipment.
Instruction: Lectures and practical exercises
in the basic fundamentals, description,
operation, function, and location of the C-
7/11 catapull; Mk-2 arresting gear bar-
ricade components, and systems to include
the steam system, mechanical system,
hydraulic system, control system, familiarization, operation, replacement, serv-
ing, and repair and inspection.
Credit Recommendation: In the voca-
tional certificate category, 14 semester hours
in steam systems and hydromechani-
cal systems (6/74); in the lower-division
baccalaureate/associate degree category, 7
semester hours in steam systems and
hydromechanical systems (6/74).

NY-1710-0072
STEAM PLANT AUTOMATIC CONTROLS
MAINTENANCE (GENERAL
REGULATOR)
Course Number: A-651-0039; A-651-
0040.
Location: Development and Training
Center, San Diego, CA; Boiler Technician
School, Philadelphia, PA.
Length: 6 weeks (210 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train petty officers to per-
form their duties and to supervise personnel
in steam plant operation.
Instruction: Classrooms and practical in-
struction in the operation of high pressure
steam systems using General Regulator Au-
tomatic Control systems, including safety
controls and feed controls.
Credit Recommendation: In the voca-
tional certificate category, 3 semester hours
in building, maintenance engineering
(6/75).

NY-1710-0073
STEAM PLANT AUTOMATIC CONTROLS
MAINTENANCE (HAGAN)
Course Number: A-651-0041; A-651-
0042.
Location: Boiler Technician School,
Philadelphia, PA; Development and Training
Center, San Diego, CA.
Length: 5 weeks (150 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train petty officers to per-
form their duties and to supervise in steam
plant operation.
Instruction: Instruction includes the
operation of high pressure steam systems
using the Hagan Automatic Control system,
including safety controls and feed controls.
Credit Recommendation: In the voca-
tional certificate category, 3 semester hours
in building maintenance and engineering
(6/75).
NV-1710-0074
STEAM PLANT AUTOMATIC CONTROLS
MAINTENANCE (BAILEY METER)
Course Number: A-651-0043; A-651-0044.
Location: Boiler Technician School; Philadelphia, PA. Development and Training Center, San Diego, CA.
Length: 6 weeks (180 hours).
Exhibit Dates: 12/72-Present.
Objectives: To train petty officers to perform their duties and to supervise personnel in steam plant operation.
Instruction: Instruction includes the operation of high pressure steam systems using the Bailey Meter Automatic Control system, including safety controls and feed controls.
Credit Recommendation: In the vocational certificate category, 2 semester hours in building maintenance and engineering (6/75).

NV-1710-0075
1200 PSI STEAM GENERATING PLANT OPERATOR
Course Number: A-651-0038.
Location: Boiler Technician School; Philadelphia, PA.
Length: 3 weeks (106 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train boiler technicians in the operation of the 1200 psi boilers and associated auxiliary machinery.
Instruction: Classroom and practical instruction in the principles of high pressure steam systems including start-up, operation, and control of steam, plants and steam plant accessories.
Credit Recommendation: In the vocational certificate category, 2 semester hours in plant operation and maintenance (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in plant operation and maintenance (6/75).

NV-1712-0001
WAUKESHA DIESEL ENGINE
Course Number: A-652-0037; J-651-0043; A-652-0046.
Location: Submarine School; Grotton, CT.
Length: 5 weeks (150 hours).
Exhibit Dates: 6/73-Present.
Objectives: To train enlisted personnel to maintain and repair the Fairbanks-Morse diesel engine.
Instruction: Lectures and practical exercises in Fairbanks-Morse diesel engine maintenance and repair, including diesel engine principles, components familiarization and maintenance procedures, engine fluid systems, scavenging blower, camshaft drive, and bearings, tappet assemblies, fuel injection, engine timing, governor, engine control linkage, snorel systems, and troubleshooting and corrective maintenance procedures.
Credit Recommendation: In the vocational certificate category, 5 semester hours in diesel engines (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in diesel engines (4/74).

NV-1712-0002
SSN/SSBN DIESEL ENGINE (FAIRBANKS-MORSE) MAINTENANCE
Course Number: A-652-0046.
Location: Submarine School; Grotton, CT.
Length: 5 weeks (150 hours).
Exhibit Dates: 6/73-Present.
Objectives: To train enlisted personnel to maintain and repair the Fairbanks-Morse diesel engine.
Instruction: Lectures and practical exercises in Fairbanks-Morse diesel engine maintenance and repair, including diesel engine principles, components familiarization and maintenance procedures, engine fluid systems, scavenging blower, camshaft drive, and bearings, tappet assemblies, fuel injection, engine timing, governor, engine control linkage, snorel systems, and troubleshooting and corrective maintenance procedures.
Credit Recommendation: In the vocational certificate category, 5 semester hours in diesel engines (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in diesel engines (4/74).

NV-1712-0003
FAIRBANKS MORSE 38FS 1/4 DIESEL ENGINE
Course Number: F-652-020.
Location: Submarine School; Grotton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 4/70-Present.
Objectives: To train enlisted personnel to maintain and repair the Fairbanks-Morse diesel engine.
Instruction: Lectures and practical exercises in Fairbanks-Morse diesel engine maintenance and repair, including diesel engine characteristics, component parts, fresh and salt water systems, lube oil system, vertical drive assembly, starter, air system, camshaft, timing and pump drive, fuel system, governor, fuel injection system, and troubleshooting and repair procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in diesel engines (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engines (4/74).

NV-1712-0004
FAIRBANKS MORSE 16-278A DIESEL ENGINE
Course Number: E-652-0020.
Location: Submarine School; Grotton, CT.
Length: 3 weeks (90-100 hours).
Exhibit Dates: 9/77-Present.
Objectives: To train petty officers to perform the maintenance and repair of the GM 16-278A diesel engine.
Instruction: Lectures and practical exercises in GM 16-278A diesel engine maintenance and repair, including component parts operation, gear trains, engine timing, air intake and exhaust system, centrifugal pumps and cooling systems, lubrication system, governor, speed control device, air starting and operating procedures, and troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engines (9/77).

NV-1712-0005
GM-12-567 DIESEL ENGINE, CLASS C1
Course Number: A-652-0021.
Location: Propulsion Engineering School, Great Lakes, IL.
Length: 3 weeks (90-100 hours).
Exhibit Dates: 5/73-Present.
Objectives: To train petty officers to perform the maintenance and repair of the GM 16-278A diesel engine.
Instruction: Lectures and practical exercises in GM 16-278A diesel engine maintenance and repair, including component parts operation, gear trains, engine timing, air intake and exhaust system, centrifugal pumps and cooling systems, lubrication system, governor, speed control device, air starting and operating procedures, and troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engines (9/77).

NV-1712-0006
GM-12-567E/645E DIESEL ENGINE, CLASS C1
Course Number: A-652-0022.
Location: Propulsion Engineering School, Great Lakes, IL.
Length: 3 weeks (90-92 hours).
Exhibit Dates: 6/73-Present.
Objectives: To train petty officers to supervise the maintenance and repair of the GM 12-567E diesel engine.
Instruction: Lectures and practical exercises in GM 12-567E diesel engine maintenance and repair, including component parts operation, engine timing, blowers, air intake and exhaust systems, centrifugal pumps and cooling systems, lubrication system, fuel system, governor, starting system operation, reversing reduction gear and clutch, maintenance procedures, starting and operating procedures, and troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engines (9/77).

NV-1712-0007
GM 268A DIESEL ENGINE, CLASS C1
Course Number: A-652-0023.
Location: Propulsion Engineering School, Great Lakes, IL.
Length: 3 weeks (95-120 hours).
COURSE EXHIBITS

NV-1712-0008
ENGINEERING OFFICER

Location: Fleet Training Center, San Diego, CA.
Length: 12-13 weeks (360-417 hours).
Objectives: To train junior officers to perform as engineering officers in diesel- and steam-powered ships.
Instruction: Lectures and practical exercises in the operation of diesel- and steam-powered ships, including engineering department management, shipboard fire fighting, damage control, nuclear, biological, and chemical warfare defense; shipboard electrical systems; diesel propulsion principles; specific boiler operations; auxiliary machinery and steam propulsion machinery; officer administration; fuel oil system and cooling system; gauges and calibrations; and operation of vertical, forced-draft blowers.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1712-0009
ASSAULT BOAT ENGINEER

Course Number: G-652-6160.
Location: Amphibious School, Little Creek, VA.
Length: 3 weeks (105 hours).
Exhibit Dates: 1/67-Present.
Objectives: To train enlisted personnel in diesel engine and assault boat operation and maintenance.
Instruction: Lectures on diesel engine operation, component nomenclature, lubricating system, cooling system, fuel system, throttles, governor, fuel injection, hydraulic reverse gear, V drive, transmission, electrical systems, ramp winch, and overhaul and troubleshooting procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in diesel engine technology, automotive or heavy equipment technology (9/77).

NV-1712-0010

AMERICAN LOCOMOTIVE (ALCO) 251(C)

DECEMBER, CLASS C

ENGINEER, CLASS C: AMERICAN LOCOMOTIVE (ALCO 251-C) DIESEL ENGINE

Course Number: A-652-0056.
Location: Propulsion Engineering School, Great Lakes, IL.
Length: 3 weeks (99-120 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train petty officers to supervise the operation, maintenance, and repair of diesel engines.
Instruction: Lectures and practical exercises in diesel engine introduction, construction, turbocharger, intake, and exhaust systems; starting air systems; lubrication, fuel, and cooling systems; governor instrumentation; PMS requirements; and engine operation and troubleshooting procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel technology (9/77).

NV-1712-0011

ENGINEER, CLASS A1

Course Number: A-652-0018.
Location: Service School Command, Great Lakes, IL.
Objectives: To train enlisted personnel to operate diesel ships engines.
Instruction: All Versions: Lectures and practical exercises in engine introduction, portable pumps; internal-combustion engine, lubrication, cooling, fuel, electrical, and transmission systems; hydraulic actuating; diesel engines; auxiliary boilers; refrigeration; distilling plants; and oil purification operation. Version 1: Instruction is self-paced. Version 2: Instruction includes maintenance and material management. Version 3: Instruction includes mathematics, blueprint reading, data; and materials familiarization, temperature and measuring instruments, valves and pumps, gas turbine engines, damage control and fire fighting.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in diesel mechanics, and credit in automotive and mechanical programs (9/77). Version 2: In the lower-division baccalaureate/associate degree category, 5 semester hours in diesel mechanics, and credit in automotive technology on the basis of institutional examination (4/74). Version 3: In the lower-division baccalaureate/associate degree category, 3 semester hours in diesel mechanics, and credit in automotive technology on the basis of institutional examination (4/74).

NV-1712-0012

MINE WARFARE PACKARD DIESEL ENGINEER

Course Number: G-652-6160.
Location: Naval Schools, Charleston, SC.
Length: 3 weeks (90 hours).
Exhibit Dates: 9/70-Present.
Objectives: To train enlisted personnel who have completed an engine communications course to operate, maintain, diagnose, and overhaul diesel engines.
Instruction: Lectures and practical exercises in diesel engine operation, maintenance, diagnosis, and overhaul, including turbosuperchargers, instruments, and controls; operating and construction data; cooling, lubrication, air intake, exhaust, and fuel systems; engine maintenance and overhaul procedures; and engine timing, troubleshooting, testing, and starting procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in diesel technology or heavy equipment (4/74), in the lower-division baccalaureate/associate degree category, 3 semester hours in diesel technology or heavy equipment (4/74).

NV-1712-0013

DEPOT LEVEL BOAT REPAIRMAN

ENGINEER

Course Number: H-652-0060.
Location: Amphibious School, Coronado, San Diego, CA.
Length: 3 weeks (105 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train engineering school graduates to maintain, trouble-shoot, and repair typical diesel marine engines.
Instruction: Lectures and practical exercises in the operation, maintenance, troubleshooting, and repair of typical diesel marine engines, including tune-up fundamentals, and servicing and operation principles for duals, gear train and flywheel housings, pistons; rods and cylinder heads, air intake and exhaust systems, fuel oil systems, lubricating systems, and cooling systems and governors.
Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in automotive or diesel technology (4/74), in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in automotive or diesel technology (4/74).

NV-1712-0014

FM38D8 1/8 DR DIESEL ENGINE, CLASS C

ENGINEER, CLASS C: FM38D8 1/8 DR DIESEL ENGINE

Course Number: A-652-0023.
Location: Propulsion Engineering School, Great Lakes, IL.
Length: 3 weeks (95-120 hours).
Exhibit Dates: 6/73-Present.
Objectives: To train petty officers to supervise diesel engine operation, maintenance, diagnosis, and repair.
Instruction: Lectures and practical exercises in diesel engine operation, construction and control; vertical drive; tuning; lubrication, air intake, exhaust, and fuel systems; cooling system; engine timing; starting systems; blowers, intake and exhaust system; governor, and planned maintenance and troubleshooting procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel, automotive or heavy equipment technology (9/77).
NV-1712-0015
BASIC ENGINEMAN, CLASS C1
ENGINEER CLASS C BASIC ENGINEER
Course Number: A-652-0019.
Location: Propulsion Engineering School, Great Lakes, IL.
Length: 3 weeks (99-120 hours).
Exhibit Dates: 7/72-1/73.
Objectives: To train enlisted personnel to operate diesel engines and to supervise engine room operations.
Instructor: Lectures focus on the operation of diesel engines and engine rooms, including fundamentals of diesel engines, instrumentation, diesel engine system analysis, administration of engineering systems, and construction and inspection of diesel engines and ancillary equipment, shafts, and gearing.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in diesel engine technology (9/77).

NV-1712-0016
ASSAULT BOAT ENGINEER
Course Number: H-652-5317.
Location: Amphibious School, Coronado, San Diego, CA.
Length: 3 weeks (105-113 hours).
Exhibit Dates: 7/66-Present.
Objectives: To train personnel as assault boat engineers.
Instructor: Lectures cover diesel engines, diesel pumps, transmission, and troubleshooting.
Credit Recommendation: In the vocational certificate category, 3 semester hours in diesel engineering systems, and construction and operation of fleet diesel engines. Topics include basic diesel engine construction and operation, fuel systems, and individual units of instruction on specific power plants.

NV-1712-0017
ENGINEER, DIESEL ENGINE, CLASS C
Course Number: Not available.
Location: Engineer Class C School, Great Lakes, IL.
Length: 6 weeks (185-190 hours).
Exhibit Dates: 7/63-12/68.
Objectives: To train personnel to maintain and repair fleet diesel engines.
Instructor: Lectures and practical exercises in the maintenance, repair, and operation of fleet diesel engines. Topics include diesel engine construction and operation, fuel systems, and individual units of instruction on specific power plants.
Credit Recommendation: In the vocational certificate category, 6 semester hours in diesel engine technology (9/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in automotive technology (5/74).

NV-1712-0018
PATROL GUNBOAT/POR/ENGINEERING SYSTEMS, OPERATOR AND MAINTENANCE
Course Number: A-652-0032.
Location: Development and Training Center, San Diego, CA.
Length: 10 weeks (343 hours).
Exhibit Dates: 7/72-Present.
Objectives: To provide personnel with the necessary skills and related knowledge to enable them to operate and perform shipboard maintenance on patrol gunboat engineering systems.
Instructor: Lectures focus on diesel engines and auxiliary systems, including maintenance, repair of gas turbines, diesel engines and generators, reduction gears, propulsion and troubleshooting, air control systems, engineering subsystems, generators, and switchboards.
Credit Recommendation: In the vocational certificate category, 3 semester hours in boat mechanics (5/74).

NV-1712-0019
DETOII* DIESEL V71 SERIFS ENGINE MAINTENANCE, CLASS C1
Course Number: Aj652-0080.
Location: Service School Command, Great Lakes, IL.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/77-Present.
Objectives: To train selected petty officers in the performance of scheduled and unscheduled maintenance, repair, and repair of the Detroit Diesel V71 engine.
Instructor: Areas of instruction include engine construction, fuel systems, lubrication, cooling, governors, tune-up and maintenance procedures, starting, operating, and troubleshooting diesel engines and auxiliary systems.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engine operation, repair and maintenance (9/77).

NV-1712-0020
DIESEL ENGINE TECHNICIAN, CLASS C1
Location: Service School Command, Great Lakes, IL.
Length: 9 weeks (300 hours).
Exhibit Dates: 5/73-Present.
Objectives: To train selected petty officers to supervise the maintenance and repair of diesel engines.
Instructor: This course is a combination of A-652-0020, GM 268A Diesel Engine, Class C1 (NV-1712-0006); A-652-0021, GM-16-278A Diesel Engine, Class C1 (NV-1712-0005), and A-652-0022, GM-12-567E/645E Diesel Engine, Class C1 (NV-1712-0006). Topics cover the maintenance and repair of the specified diesel engines.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in diesel engine technology (9/77).

NV-1713-0001
ENGINEERING AID, CLASS B
(AA"J")
Course Number: A-412-0015.
Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS.
Length: 15-16 weeks (450-480 hours).
Exhibit Dates: 5/64-Present.
Objectives: To train petty officers to be civil technicians.
Instructor: Lectures and practical exercises are given in shipboard systems, utility and fuel systems, power plants and propeller systems as they pertain specifically to the EC-130Q.
Credit Recommendation: No credit because of the limited technical nature of the course (11/73).

NV-1714-0001
EC-130Q ELECTRICAL SYSTEMS AND CIRCUITS ORGANIZATIONAL MAINTENANCE
Course Number: None.
Location: Naval Air Maintenance Training Detachment, El Toro, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 3/79-Present.
Objectives: To train maintenance personnel to maintain, service, and functionally test the EC-130Q electrical systems and circuits at the organizational maintenance level.
Instructor: Electrical power supplies, circuits, and miscellaneous electrical systems; utility and fuel systems, power plants and propeller systems as they pertain specifically to the EC-130Q.
Credit Recommendation: No credit because of the limited technical nature of the course (11/73).

NV-1714-0002
ELECTRICIAN'S MATE ENLISTED MAINTENANCE
Course Number: A-662-018.
Location: Naval Destroyer School, Newport, RI.
Length: 4 weeks (117 hours).
Exhibit Dates: 12/69-Present.
OBJECTIVES: To provide a knowledge of basic electrical theories and systems and to inculcate necessary basic repair and maintenance skills.

INSTRUCTION: Basic electrical theory and application; equipment familiarization.

CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (11/73).

NV-1714-0003 ELECTRICIAN'S MATE, MAINTENANCE, CLASS P

Course Number: A-651-4025.
Location: Naval Development and Training Center, San Diego, CA.
Length: 3 weeks (90 hours).
Exhibit Dates: 11/72-Present.

OBJECTIVES: To provide electrician-supervisors with practical training in maintaining and repairing ship's electrical installations.

INSTRUCTION: Engineering department administration; electrical systems operations and safety precaution; disassembly, adjustments, and repair of electrical rotating equipment, measuring instruments, meters, motor controllers, voltage regulators, magnetic amplifiers, static exciters, gyro's, and small-boat electrical systems.

CREDIT RECOMMENDATION: In the vocational certificate category, 2 semester hours, in electrical technology (11/73).

NV-1714-0004 ELECTRICAL DISTRIBUTION AND CONTROL

Course Number: F-662-011.
Location: Naval Submarine School, Groton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/72-Present.

OBJECTIVES: To train students to inspect, maintain, and repair electrical distribution and control equipment installed in nuclear submarines.

INSTRUCTION: Electrical switchboards; air, motor-driven, and arc-quenching circuit breakers; switchboard pump control circuitry; AC controllers; DC starters.

CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (11/73).

NV-1714-0006 AVIATION ORDINANCEMAN (UTILITY), CLASS A

Course Number: None.
Location: Air Technical Training Center, Jacksonville, FL.
Length: 11 weeks (440 hours).
Exhibit Dates: 3/57-12/68.

OBJECTIVES: To train enlisted personnel to inspect, test, and maintain aviation ordnance and to perform maintenance on aircraft turrets.

INSTRUCTION: Lectures and practical exercises in basic electricity, aircraft munitions, bomb- and torpedo-handling equipment, weapons, munitions handling, and aircraft turrets.

CREDIT RECOMMENDATION: In the vocational certificate category, credit in electricity on the basis of institutional examination (3/74).

NV-1714-0007 AVIATION ORDINANCEMAN (TURRET), CLASS A

Course Number: None.
Location: Air Technical Training Center, Jacksonville, FL.
Length: 11 weeks (440 hours).
Exhibit Dates: 3/57-12/68.

OBJECTIVES: To train enlisted personnel to inspect, test, and maintain aviation ordnance and to perform maintenance on aircraft turrets.

INSTRUCTION: Lectures and practical exercises in basic electricity, aircraft munitions, bomb- and torpedo-handling equipment, weapons, munitions handling, and aircraft turrets.

CREDIT RECOMMENDATION: In the vocational certificate category, credit in electricity on the basis of institutional examination (3/74).

NV-1714-0008 CONSTRUCTION ELECTRICIAN, CLASS A (CE-A*)

Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS; Construction School, Davisville, RI; Construction School, Davisville, RI.
Length: Version 1: 8 weeks (240 hours); Version 2: 14 weeks (420 hours); Version 3: 14 weeks (432 hours).

OBJECTIVES: To train enlisted personnel to perform as electricians and linemen.

INSTRUCTION: Lectures and practical experience in basic electrical theory, telephone communication, interior wiring, pole line construction, motors and generators, mathematics review, and electrical blueprint reading.

CREDIT RECOMMENDATION: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in power electronics; for all other ratings, 6 semester hours in basic electronics (9/77); in the lower-division baccalaureate/associate degree category, for Gunnner's Mates (GM), Torpedoman's Mates (TM), Construction Electricians (CE), and Enginemen (EN). 3 semester hours in basic electronics; for all other ratings, 6 semester hours in basic electronics (9/77). Version 2: In the vocational certificate category, 3 semester hours in basic electronics; for all other ratings, 6 semester hours in basic electronics (9/77). Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory for non-engineering majors (3/74).

NV-1714-0010 CONSTRUCTION ELECTRICIAN, CLASS J (CE-J*)

Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS; Construction School, Davisville, RI.
Length: 17 weeks (510 hours).

OBJECTIVES: To train enlisted personnel to perform as electricians and linemen.

INSTRUCTION: Lectures and practical exercises in basic electrical theory, power distribution, interior wiring, local and common battery telephone, interoffice communication systems, cable splicing and fault location, and AC motors. Version 1: Instruction includes electrical power plant operation and maintenance.
Credit Recommendation: Version 1: In the vocational certificate category, 9 semester hours in electricity (7/76); in the lower-division baccalaureate/associate degree category, credit in electricity on the basis of institutional examination (7/76). Version 2: In the vocational certificate category, 8 semester hours in electricity (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity on the basis of institutional examination (3/74).

NV-1714-0011
H-46 ELECTRICAL AND INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 6/65-Present.
Objectives: To train maintenance personnel to maintain a specific electrical and instrument system.
Instruction: Lectures and practical exercises in the maintenance of the H-46 electrical and instrument system, including elements of power distribution, electrical power supply, starting and control systems, utility electric systems, and instruments and indicating systems.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1714-0012
1. ELECTRICIAN’S MATE, CLASS A
2. ELECTRICIAN’S MATE, CLASS A
(ELECTRICIAN’S MATE, CLASS A, Part II POWER AND LIGHTING EQUIPMENT)
Location: Version 2: Service School Command, San Diego, CA. All Versions: Service School Command, Great Lakes, IL.
Exhibit Dates: 5/62-2/76.
Objectives: To train enlisted personnel to operate, maintain, and repair electrical equipment.
Instruction: All Versions: Lectures and practical exercises in electrical equipment operation, maintenance, and repair, including safety precautions and first aid, rotating machinery introduction, AC and DC generators, rotary and magnetic amplifiers, handtools operation, maintenance and material management, single-phase motors, degaussing, AC and DC controllers, electrohydraulics and electropneumatics, and small-craft electrical systems. Version 1: Instruction includes three phase motors and generators and solid state controls. Version 2: Instruction includes solid-state controls of motors.
Credit Recommendation: Version 1: In the vocational certificate category, 5 semester hours in electricity and electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (9/77). Version 2: In the vocational certificate category, 6 semester hours in electricity and electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electrical laboratory (12/68); in the upper-division baccalaureate category, 3 semester hours in industrial education (3/74).

NV-1714-0013
E-1B ELECTRICAL AND INSTRUMENT SYSTEMS ORGANIZATIONAL MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Norfolk, VA.
Length: 2 weeks (80 hours).
Exhibit Dates: 8/68-Present.
Objectives: To train maintenance personnel to operate and maintain the electrical and instrument systems of the E-1B aircraft.
Instruction: Lectures and practical exercises in the operation and maintenance of the electrical and instrument systems of the E-1B aircraft, including power supplies, power plant and accessories, controls, various circuits, structural control systems, heating and de-ice systems, fuel and oxygen systems, lighting systems, various electrical instruments, and Pitot and static instruments.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1714-0014
KA-3A/KA-3B ELECTRICAL AND INSTRUMENTS ORGANIZATIONAL MAINTENANCE
Course Number: C-602-3702; C-602-43.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 2 weeks (64 hours).
Exhibit Dates: 9/70-Present.
Objectives: To train maintenance personnel to operate and maintain electrical equipment and instruments at the organizational level.
Instruction: Lectures and practical exercises in the operation and maintenance of electrical equipment and instruments, including AC and DC power, power plant accessories, actuators, lighting, heater and safety equipment, fuel quantity, light maintenance, various circuits, engine instruments, and the position-indicating, Hydrol anti-skih brake, air conditioning, and pressurization systems.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1714-0015
CONSTRUCTION ELECTRICIAN—POWER AND COMMUNICATIONS CABLE SPLICING (CONSTRUCTION ELECTRICIAN CABLE SPlicer (CLASS C))
(CP-15 CABLE SPLICING)
Course Number: A-721-0023.
Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS; Construction School, Davisville, RI.
Length: 11-13 weeks (345-406 hours).
Exhibit Dates: H/72/Present.

NV-1714-0016
ELECTRIC MOTOR REWIND, CLASS C
Course Number: A-662-0021.
Location: Fleet Training Center, Norfolk, VA.
Length: 5 weeks (150 hours).
Exhibit Dates: 8/73-Present.
Objectives: To train enlisted personnel in the techniques and procedures used in winding AC and DC motors.
Instruction: Lectures and practical exercises in the recording of data; construction of wiring diagrams; rewinding, assembling and testing of DC motors, single-phase AC motors, and three-phase AC motors.
Credit Recommendation: 2 semester hours in AC/DC motors (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in AC/DC motors (6/75).

NV-1715-0001
BASIC ELECTRONICS (MA-40)
Course Number: R-100-6209.
Location: Naval Air Reserve Training Command, U.S.A.
Length: 6 weeks (240 hours).
Objectives: To provide selected Reserve personnel (on active duty) of the Naval Air Reserve Training Command with the opportunity to become familiar with extensive coverage of basic theoretical knowledge, safety, and alignment/troubleshooting procedures of the superheterodyne receiver and basic transmitter.
Instruction: Applied mathematics and essentials of electronics; series/parallel circuitry and magnetism; measuring devices; introduction to AC theory; AC circuits and resonance; electron principles and the diode; vacuum tube theory; amplifier circuits and systems; transmitters; receiver theory; transmission line, antenna, and wave propagation theory; and semiconductor theory.
Credit Recommendation: In the vocational certificate category, 10 semester hours in electronics (11/73); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electronics, and credit in electrical laboratory on the basis of demonstrated skills and/or institutional examinations (11/73).
### 1-152 COURSE EXHIBITS

#### NV-1715-0002
**Airborne Electronic Warfare, Class O**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Naval Air Technical Training Center, Glyncos, GA.</td>
</tr>
<tr>
<td>Length</td>
<td>8 weeks (304 hours).</td>
</tr>
<tr>
<td>Objectives</td>
<td>To train personnel in airborne electronic warfare principles and systems.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the nature and content of the course (11/73).

#### NV-1715-0003
**ELINT Evaluation Operator/Officer**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>D-150-016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Reconnaissance Attack Squadron Three, Naval Air Station, Albany, GA.</td>
</tr>
<tr>
<td>Length</td>
<td>11 weeks (430 hours).</td>
</tr>
<tr>
<td>Objectives</td>
<td>To train personnel in electronic intelligence evaluation and operation.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the nature and content of the course (11/73).

#### NV-1715-0004
**AN/UPR-2 Ionospheric Sounder Set Maintenance (Electronics Technician, Class CI)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>A-101-0047</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Service School Command, San Diego, CA.</td>
</tr>
<tr>
<td>Length</td>
<td>4 weeks (119-120 hours).</td>
</tr>
<tr>
<td>Objectives</td>
<td>To train personnel in the maintenance of the AN/UPR-2 Ionospheric Sounder.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the nature and content of the course (11/73).

#### NV-1715-0005
**Electronic Test Equipment Operation/Operational Use**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>J-100-0700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Fleet Training Center, Mayport, FL.</td>
</tr>
<tr>
<td>Length</td>
<td>2 weeks (57 hours).</td>
</tr>
<tr>
<td>Objectives</td>
<td>To train personnel in the maintenance and operation of electronic test equipment.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the limited technical nature of the course (11/73).

#### NV-1715-0006
**Electronics Technician Class C, AN/SPS-40A Radar Set Maintenance**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>A-104-0050; A-104-0131</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Naval Schools Command, Norfolk, VA; Naval Schools Command, San Diego, CA.</td>
</tr>
<tr>
<td>Length</td>
<td>8 weeks (231-240 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>1/72-Present.</td>
</tr>
<tr>
<td>Objectives</td>
<td>To provide personnel with the skills and knowledge necessary to operate and maintain the AN/SPS-40A Radar Set.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the limited technical nature of the course (11/73).

#### NV-1715-0007
**Electronics Technician, Class C, Electronics Material Officer**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>A-4B-019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Naval School, Norfolk, VA.</td>
</tr>
<tr>
<td>Length</td>
<td>4 weeks (97 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>7/70-Present.</td>
</tr>
<tr>
<td>Objectives</td>
<td>To provide selected officers with the necessary knowledge and skill to enable them to perform the duties of the electronics material officer.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the limited technical nature of the course (11/73).

#### NV-1715-0008
**Electronics Technician, Class C, AN/SSM-5 Monitor Test Set Maintenance**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>A-100-0022; A-100-0030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Naval School, San Diego, CA; Naval School, Norfolk, VA.</td>
</tr>
<tr>
<td>Length</td>
<td>4 weeks (120 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>1/72-Present.</td>
</tr>
<tr>
<td>Objectives</td>
<td>To provide selected officers with the skills and knowledge necessary to maintain the AN/SSM-5 Monitor Test Set.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the limited technical nature of the course (11/73).

#### NV-1715-0009
**AN/UCC-1 Series Telegraph Terminal Maintenance (Electronics Technician, Class CI)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>A-101-0022; A-101-0023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.</td>
</tr>
<tr>
<td>Length</td>
<td>2 weeks (60-72 hours).</td>
</tr>
<tr>
<td>Objectives</td>
<td>To provide personnel with the necessary knowledge and skill to maintain the AN/UCC-1 Series Telegraph Terminal.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the limited technical nature of the course (11/73).

#### NV-1715-0010
**AN/WRC-1 Radio Set Maintenance (Electronics Technician, Class CI)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>A-101-0029</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Service School Command, San Diego, CA; Fleet Training Group, Pearl Harbor, HI.</td>
</tr>
<tr>
<td>Length</td>
<td>2 weeks (59-60 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>3/71-Present.</td>
</tr>
<tr>
<td>Objectives</td>
<td>To provide personnel with the necessary knowledge and skill to maintain the AN/WRC-1 Radio Set.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the limited technical nature of the course (11/73).

#### NV-1715-0011
**AN/WRT-2 Radio Transmitter Maintenance (Electronics Technician, Class CI)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>A-101-0031; A-101-0033; A-101-0032</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA; Naval Technical Training Command, San Francisco, CA.</td>
</tr>
<tr>
<td>Length</td>
<td>3-4 weeks (90-110 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>1/71-Present.</td>
</tr>
<tr>
<td>Objectives</td>
<td>To provide personnel with the necessary knowledge and skill to maintain the AN/WRT-2 Radio Transmitter.</td>
</tr>
</tbody>
</table>

**Credit Recommendation**: No credit because of the limited technical nature of the course (11/73).
**Objectives:** To provide selected trainees with the skills and knowledge necessary to maintain the AN/WRT-2 radio transmitting set.

**Instruction:** Operation of and familiarization with AN/WRT-2; AC/DC power distribution; modulator functional section-amplifier and tuner; RF amplifier and tuner functional section; RF amplifier; transmitter troubleshooting.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electronic communications systems (11/73).

**NV-1715-0012**

**ELECTRONICS TECHNICIAN, CLASS C, AN/UXH-2B FACSIMILE RECORDING EQUIPMENT MAINTENANCE**

**Course Number:** A-101-0035; A-101-0050.

**Location:** Naval School, San Diego, CA; Naval School, Norfolk, VA.

**Length:** 3 weeks (60 hours).

**Exhibit Dates:** 5/71-Present.

**Objectives:** Provide selected trainees with the skills and knowledge necessary to operate and maintain the AN/UXH-2B and CV-1066B/UX; operating procedures and associated test equipment.

**Instruction:** Maintenance and material management, introduction to AN/UXH-2B and CV-1066B/UX, operating procedures and safety; converter analysis and maintenance; recorder set analysis; troubleshooting.

**Credit Recommendation:** No credit because of the limited technical nature of the course (11/73).

**NV-1715-0013**

**ELECTRONICS TECHNICIAN, INDICATOR GROUP AN/SPA-41 MAINTENANCE**

**Course Number:** A-104-019; A-104-020.

**Location:** Naval School, San Diego, CA; Naval School, Norfolk, VA.

**Length:** 2 weeks (60 hours).

**Exhibit Dates:** 10/69-Present.

**Objectives:** Provide selected trainees with the skills and knowledge necessary to operate and maintain the AN/SPA-41 range/height indicator, and to operate and use associated test equipment.

**Instruction:** Maintenance and material management, introduction to AN/UXH-2B and CV-1066B/UX, operating procedures and safety; converter analysis and maintenance; recorder set analysis; troubleshooting.

**Credit Recommendation:** No credit because of the limited technical nature of the course (11/73).

**NV-1715-0016**

**ELECTRONICS TECHNICIAN CLASS C, AN/VCC-2 SHIPBOARD SYSTEM**

**Course Number:** None.

**Location:** Naval School, San Diego, CA; Naval School, Norfolk, VA.

**Length:** 3 weeks (96 hours).

**Exhibit Dates:** 10/71-Present.

**Objectives:** Provide selected trainees with the skills and knowledge necessary to maintain the AN/VCC-2 shipboard communications system.

**Instruction:** Maintenance and material management, operation of AN/VCC-2; RT-524/VRC radio transmitter-receiver; functional analysis and maintenance of the receiver transmitter, including AC/DC power distribution and control circuits, VHF tuner and squelch assembly, modulator assembly, master oscillator and buffer amplifier, transmitter driver and power amplifier, power supply, and transmitter adapter; functional analysis of the AN/VCC-2 telephone-telegraph terminal; functional analysis of the AN/SPA (60 V) antenna coupler, including RF, four-channel combiner, operational control section, monitoring and protection section, and power supplies.

**Credit Recommendation:** No credit because of the limited technical nature of the course (11/73).

**NV-1715-0017**

**EQUIPMENT OPERATOR**

**Course Number:** K-233-0025; K-233-281.

**Location:** Fleet Anti-Air Warfare Training Center, San Diego, CA.

**Length:** 2 weeks (59 hours).

**Exhibit Dates:** 5/71-Present.

**Objectives:** To train aviation personnel in the fundamentals and techniques of electronic warfare (EW) and EW equipment operation.

**Instruction:** Fundamentals of electronic warfare; electronic warfare support measures; signal recognition; analysis and evaluation; electronic countermeasures; equipment theory and operation; electronic intelligence collection procedures and ESM reporting procedures; basic electronic counter-countermeasures.

**Credit Recommendation:** No credit because of the military nature of the course (11/73).

**NV-1715-0018**

**ELECTRONICS TECHNICIAN, CLASS C, INDICATOR GROUP AN/SPA-41 MAINTENANCE**

**Course Number:** A-104-021.

**Location:** Naval School, Norfolk, VA.

**Length:** 3 weeks (80 hours).

**Exhibit Dates:** 7/70-Present.

**Objectives:** To train technicians to operate and maintain the AN/SPA-41 shipboard Range/Height Indicator and associated test equipment.

**Instruction:** System familiarization and operational characteristics; location and identification of units; assemblies; and subassemblies; operating procedures; technical maintenance, including AC power distribution, auto zero correction, DC power supplies, timing, height line cursor generation, and servomechanism, range and height computing section, range and height time share networks and sweep deflection, and range calibration, marking, and intensity; system troubleshooting.

**Credit Recommendation:** No credit because of the limited technical nature of the course (11/73).

**NV-1715-0019**

**ELECTRONICS TECHNICIAN CLASS C, AN/FOC-73 TELETYPEWRITER ROUTING SET AND AN/UGR-14 INKTRONIC PAGE PRINTER**

**Course Number:** A-101-0048.

**Location:** Naval School, Great Lakes, IL.

**Length:** 6 weeks (180 hours).

**Exhibit Dates:** 11/72-6/77.

**Objectives:** To train students to maintain and program teleprinter routing sets, the Inktronic page printer, and associated test equipment.

**Instruction:** Teletypewriter familiarization; message format, introduction to AN/FOC-73 system; logic fundamentals; core memories; TS-2723/FG-73 printed circuit board test. MX-8173/FGC format stripper; AN/UGR-14 Inktronic Page Printer, system maintenance, and packaging of reparables.

**Credit Recommendation:** No credit because of the limited technical nature of the course (11/73).

**NV-1715-0020**

**EQUIPMENT OPERATOR**

**Course Number:** E-210-48.
COURSE EXHIBITS

Location: Fleet Aviation Specialized Operational Training Group, Pacific Fleet, Moffett Field, CA.

Length: 2 weeks (63 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train officers in the fundamentals and techniques of electronic warfare.

Instruction: Fundamentals of electronic warfare; fundamentals of electromagnetics; electronic warfare systems; friendly use of the electromagnetic spectrum; intelligence in support of electronic warfare; electronic warfare management; electronic warfare in support of military operations.

Credit Recommendation: No credit because of the limited technical nature of the course (11/73).

NV-1715-0024

ELECTRONICS TECHNICIAN, CLASS C, AN/SPS-29 RADAR SET

Course Number: A-104-0031

Location: Naval Technical Training, Treasure Island, San Francisco, CA.

Length: 4 weeks (120 hours).

Exhibit Dates: 7/72-Present.

Objectives: To train selected trainees with the skills and related knowledge necessary to maintain the AN/SPS-29 radar set.

Instruction: System operation; AC and DC power distribution; trigger generator and monitor function; transmitting channel; antenna function; receiving channel; AN/SPS-29 radar set maintenance and troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course (11/73).

NV-1715-0025

ELECTRICAL COMPONENT MAINTENANCE (UNREP)

(UNREP ELECTRICAL COMPONENT MAINTENANCE UNITED CONTROLS)

Course Number: A-551-0026, A-551-0030

Location: UNREP Schools Division of the Naval Schools Command, Treasure Island, San Francisco, CA.

Length: 10 weeks (294 hours).

Exhibit Dates: 12/68-Present.

Objectives: To train students with electronic backgrounds in radar and electronic-hydraulic components of highline-tensioned inhaul and outhaul winches, sliding blocks, transfer heads, and ram tensioners.

Instruction: Basic electricity; basic electronics; hydraulic interface with electronic control for UNREP instruments; maintenance of power supplies; drive systems and control systems for sliding blocks; transfer heads, Drexel & Western gear, multi-directional missile-handling trucks; maintenance of Cutler-Hammer and General Electric static logic controllers.

Credit Recommendation: No credit because of the limited technical nature of the course (11/73).

NV-1715-0028

ELECTRONICS TECHNICIAN CLASS C, R-1524(P)/WRR COUNTERMEASURES RECEIVER MAINTENANCE

Course Number: A-102-0098

Location: Naval Technical Training Schools, Norfolk, VA.

Length: 2 weeks (60 hours).

Exhibit Dates: 8/72-Present.

Objectives: To train students with electronic and communications backgrounds in the R-1524(P)/WRR countermeasures receiver and its associated tuning and test equipment.

Instruction: Familiarization with and operation of R-1524(P)/WRR countermeasures receiver; functional analysis and maintenance, including AC and DC power distribution, RF tuning units, IF amplifiers, AGC/squitch/audio amplifier circuitry, and audio amplifier circuitry, troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course (11/73).
NV-1715-0029

RADAR REPEATER SYSTEMS MAINTENANCE
(ELECTRONICS TECHNICIAN, CLASS 1)

Course Number: A-104-0129; A-104-0130.

Location: Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

Length: Version 1: 3 weeks (90 hours).
Version 2: 10 weeks (220-235 hours).

Exhibit Dates: Version 1: 10/77-Present.

Objectives: To provide the training required to maintain any switchboard-repeater system on board ship.

Instruction: Version 1: Operation and familiarization of signal distribution switchboards and a radar repeater. Version 2: Operation and system maintenance of switchboards, indicator groups, radar trainers, and signal data converters; circuit analysis; calibration; troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics (11/77). Version 2: In the vocational certificate category, 2 semester hours in electronics (11/73).

NV-1715-0030

IOIC INTELLIGENCE DATA SYSTEM (STORAGE AND RETRIEVAL) MAINTENANCE

Course Number: D-156-0171.

Location: Reconnaissance Attack Squadron Three, Albany, GA.

Length: 15 weeks (600 hours).

Exhibit Dates: 5/69-Present.

Objectives: To train data systems technicians to perform center equipment maintenance and repair.

Instruction: Lectures and practical exercises in digital plotting systems and logic design; system timing; printers display equipment and position encoders; paper tape reader and punch; stereo comparison viewer, functions, logic, electromechanisms, and optics testing and maintenance; code matrix reader circuit analysis, logic, alignment, and maintenance; and system peripheral equipment maintenance and testing.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics (11/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (11/73).

NV-1715-0031

RADIO TRANSCEIVER AN/SRC-20 MAINTENANCE

Course Number: L-101-0015.

Location: Submarine Training Center Pacific, Pearl Harbor, HI.

Length: 3 weeks (90 hours).

Exhibit Dates: 12/76-Present.

Objectives: To train submarine radio and electronic technicians to operate, maintain, and repair the AN/SRC-20 transceiver.

Instruction: Lectures and laboratories in AN/SRC-20 operation principles, audio and modulator circuits, squelch, circuits, frequency multiplier oscillator, power distribution and amplification, maintenance procedures, and basic and advanced troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications, 1 in electronic communications laboratory (2/77).

NV-1715-0032

RA-5C SIGNAL DATA CONVERTER GROUP TEST EQUIPMENT INTERMEDIATE MAINTENANCE

Course Number: None.

Location: Air Maintenance Training Detachment, Sanford, FL.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/68-12/68.

Objectives: To train maintenance personnel to repair RA-5C signal data converter group test equipment.

Instruction: Lectures and practical exercises in operation, maintenance, and servicing of data converter and viewfinder test equipment and digital data system test equipment.

Credit Recommendation: In the vocational certificate category, credit in signal data converter group test equipment maintenance on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in signal data converter group test equipment maintenance on the basis of institutional examination (3/74).

NV-1715-0033

Mk XII IFF SYSTEMS, CLASS C

Course Number: Not available.

Location: Service Schools Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

Length: 11 weeks (330 hours).

Exhibit Dates: 3/72-Present.

Objectives: To train enlisted personnel to maintain Mk XII IFF electronic systems.

Instruction: Lectures and practical exercises in Mk XII operation, malfunctioning components troubleshooting procedures and test equipment usage, preventive maintenance procedures, and electronic circuits and mechanical assembly alignment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic systems, 1 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronic communications (3/74).

NV-1715-0034

H-46 AN/APX-6B AND AN/APA-89 IDENTIFICATION SYSTEM INTERMEDIATE MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, Jacksonville, NC; Air Maintenance Training Detachment, Santa Ana, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 11/72-Present.

Objectives: To train maintenance personnel to maintain service AN/APX-6B and AN/APA-89 electronic systems.

Instruction: Lectures and practical exercises in AN/APX-6B and AN/APA-89 electronic systems analysis, maintenance procedures, alignment, circuit and circuit-component repair, servicing techniques, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic communications, 1 in laboratory (3/74).

NV-1715-0035

INTEGRATED AVIONICS RADAR SYSTEM TECHNICIAN

Course Number: Not available.

Location: Air Maintenance Training Detachment, Lemoore, CA.

Length: 8 weeks (320 hours).

Exhibit Dates: 9/71-Present.

Objectives: To train enlisted personnel in integrated avionics radar system operational theory, functional capability, and maintenance and servicing techniques.

Instruction: Lectures include avionics system theory, radar theory, altimeters, Doppler systems and power supplies; air data and tactical computer operation; air navigation computation analysis; malfunction isolation techniques; electronic systems circuit analysis and block diagrams; mathematics flow diagramming; inertial measurement; weapons systems release and armament control; test equipment, and maintenance, servicing, and alignment procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic communications, 1 in laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronic communications (3/74).

NV-1715-0036

KC-130F AN/APN-59 RADAR MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, El Toro, CA.

Length: 5 weeks (120 hours).

Exhibit Dates: 1/68-Present.

Objectives: To train enlisted personnel to maintain the AN/APN-59 radar set and associated test equipment.

Instruction: Lectures in AN/APN-59 radar set maintenance, including block diagrams, functional operation of radar set controls, analysis of transmitter unit, power supplies, phasotron oscillator, gate and sweep generator, various circuits operation, antennas, amplifiers, and troubleshooting and alignment techniques.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic communications, 1 in laboratory (3/74).

NV-1715-0037

1. MARINE AIR TRAFFIC CONTROL NAVIGATIONAL AIDS REPAIRMAN, CLASS C

2. MARINE AIR TRAFFIC CONTROL NAVIGATIONAL AIDS MAINTENANCE

Course Number: C-103-2020.

Location: Air Technical Training Center, Glynnco, GA.

Length: Version 1: 8 weeks (267 hours).
Version 2: 13 weeks (520 hours).

Exhibit Dates: Version 1: 5/73-Present.

Objectives: To train electronic technicians to install, inspect, maintain, and repair air control navigation equipment.
I-156 COURSE EXHIBITS


**Objectives:** To train radar technicians to operate and maintain air traffic control systems.

**Instruction:** Lectures and practical exercises in air traffic control principles. Lectures include the installation, maintenance, and repair of air traffic systems, navigational aids, and communication systems and associated equipment. Version 2: Lectures in installation, maintenance, testing, and repair of specific radar sets, including basic electronics review, transmitter fundamentals, and specific radar design. Version 3: Lectures in installation, maintenance, testing, and repair of specific radar sets, including basic electronics review, transmitter fundamentals, and specific radar design.

**Credit Recommendation:** No credit because of the limited technical nature of the course (3/74).

**NV-1715-0038**

**Marine Air Traffic Control Unit Radar Repairman, Class C**

(COURSE AIR TRAFFIC CONTROL UNIT RADAR MAINTENANCE, CLASS C)

**Course Number:** C-103-2021

**Location:** Air Technical Training Center, Glyco, GA.

**Length:** Version 1: 8 weeks (267 hours).


**Objectives:** To train electronic technicians to install, inspect, test, maintain, and repair specific air control navigational equipment.

**Instruction:** Lectures and practical exercises in electronic communications, power distribution, and maintenance, including AN/APN-8A precision approach radar and AN/UPS-1 radar set maintenance, power distribution, and supplies, antenna control, transmitter, radio frequency system, receiver operation and maintenance, and system analysis and alignment; and C-4500 control indicator and AN/APA-125 surveillance approach indicator circuitry, amplifiers, search servo system, and system alignment and troubleshooting procedures.

**Credit Recommendation:** Version 1: In the vocational certificate category, 3 semester hours in electronic communications laboratory (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic communications laboratory (3/74); in the vocational certificate category, 3 semester hours in electronic communications laboratory (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in electronic communications (3/74).

**NV-1715-0039**

1. **Marine Air Traffic Control Unit Radar Maintenance Management, Class C**

(COURSE AIR TRAFFIC CONTROL UNIT RADAR MAINTENANCE MANAGEMENT, CLASS C)

2. **Marine Air Traffic Control Unit Radar Maintenance, Class C**

3. **Marine Air Traffic Control Unit Radar Maintenance, Class C**

**Course Number:** Version 1: C-103-2019; C-2G-2023

**Location:** Air Technical Training Center, Glyco, GA.

**Length:** Version 1: 1 weeks (120 hours). Version 2: 15 weeks (600 hours). Version 3: 18 weeks (720 hours).

**Objectives:** To train maintenance personnel to maintain, repair, and test the AN/APN-59B radar set at the intermediate maintenance level.

**Instruction:** Lectures and practical exercises in AN/APN-59B radar set maintenance, testing and repair, including radar set operation and circuitry, block diagrams, cabling, oscillators, transmitters, indicators and power supply, antenna circuits, accessory equipment, and alignment and troubleshooting procedures.

**Credit Recommendation:** In the vocational certificate category, 1 semester hour in electronic communications, 1 in electronics laboratory (3/74).

**NV-1715-0042**

**Basic Sonarmen**

(Sonarmen, Class A)

**Course Number:** A-150-0026

**Location:** Naval Schools Command, Mare Island, CA.

**Length:** 6 weeks (240 hours). Exhibit Dates: 1/70-Present.

**Objectives:** To train enlisted personnel to operate and perform preventive and corrective maintenance on sonar and allied equipment.

**Instruction:** The course consists of an operational phase and a maintenance phase. Maintenance phase includes fundamentals of AC and DC, DC series and parallel circuits, DC generators and motors, AC circuits, inductance and capacitance, transformers and alternators, power supplies, rectifiers, amplifiers, vacuum tubes, oscillators, transmitters, receivers, synchronizers, multivibrators, sonar and auxiliary equipment.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics and additional credit in electrical laboratory on the basis of institutional evaluation (12/68).

**NV-1715-0043**

**Data Systems Technician School, Class A**

**Course Number:** A-150-0026

**Location:** Naval Schools Command, Mare Island, CA.

**Length:** 6 weeks (240 hours). Exhibit Dates: 1/70-Present.

**Objectives:** To train enlisted personnel to troubleshoot the CP-789(V)/UYK computer.

**Instruction:** Lectures and practical exercises in troubleshooting the control, arithmetic, memory, and input/output sections of the CP-789(V)/UYK computer.

**Credit Recommendation:** No credit because of the limited technical nature of the course (3/74).

**NV-1715-0044**

**Data Systems Technician, Class A (Phase A-2) Part 1, CP-789**

**Course Number:** A-150-0026

**Location:** Naval Schools Command, Mare Island, CA.

**Length:** 6 weeks (240 hours). Exhibit Dates: 1/70-Present.

**Objectives:** To train enlisted personnel to troubleshoot the CP-789(V)/UYK computer.

**Instruction:** Lectures and practical exercises in troubleshooting the control, arithmetic, memory, and input/output sections of the CP-789(V)/UYK computer. (See NV-1715-0753 for Phase A-3.)

**Credit Recommendation:** No credit because of the limited technical nature of the course (3/74).
NV-1715-0045

DATA SYSTEMS TECHNICIANS, CLASS A (Phase A-2) - PART III, CP-642A
Course Number: A-150-0026
Location: Naval Schools Command, Mare Island, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train enlisted personnel to operate and repair digital data computers.
Instruction: Lectures and practical exercises in electronic and logical analysis of the control, arithmetic, memory, and input/output sections, and management and repair procedures for digital data computers. (See NV-1715-0753 for Phase A-1.)
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0048

DATA SYSTEMS TECHNICIAN, CLASS C, MK-11, MOD 2/4 SYSTEMS GROUP MAINTENANCE
Course Number: A-150-060
Location: Naval Schools Command, Mare Island, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train maintenance personnel to perform maintenance on computer indicators, including electronic and mechanical components. (See NV-1715-0753 for Phase A-1.)
Instruction: Lectures and practical exercises in the operation and maintenance of computer indicators, including electronic and mechanical components. (See NV-1715-0753 for Phase A-1.)
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0049

AVIONICS FUNDAMENTALS, CLASS A
Course Number: Not available.
Location: Air Reserve Electronics Training Unit, Los Alamitos, CA.
Length: 12 weeks (320 hours).
Exhibit Dates: 6/64-12/68.
Objectives: To provide selected enlisted personnel with a basic understanding of electronic circuits and test equipment.
Instruction: Lectures and practical exercises in the fundamentals of radio, communication, and radar electronics.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0050

F4B AN/ABJ-3A LOFT BOMB RELEASE COMPUTER SET
Course Number: C-602-3083; C-602-3811.
Location: Air Reserve Electronics Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA.
Length: 2 weeks (72 hours).
Exhibit Dates: 3/73-Present.
Objectives: To train maintenance personnel to test, maintain, and repair loft bomb release computers.
Instruction: Lectures and practical exercises in the operation of the bomb release computers and identification and use of management tools, including maintenance requirement cards.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0051

A-6 BOMBARDIER NAVIGATOR CONTROL BOX AND ASSOCIATED TEST SET, INTERMEDIATE MAINTENANCE (A-6 BNCN AND BNCB TEST SET, INTERMEDIATE MAINTENANCE)
Course Number: C-102-3776.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 2 weeks (80 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train maintenance personnel to operate, troubleshoot, and maintain computer and peripheral equipment and test sets.
Instruction: Lectures and practical exercises in the theory and operation of radar set control boxes and test sets, and maintenance and troubleshooting procedures.
Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0052

AN/ALM-109 TEST CONSOLE AND AN/ALM-99 TELEVISION RECEIVERS AND CONTROL MODULATION INTEGERS, INTERMEDIATE MAINTENANCE
Course Number: C-102-3944.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 7 weeks (280 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train enlisted personnel to test, maintain, and repair television receivers.
Instruction: Lectures and practical exercises in the theory and operation of radar set control boxes and test sets.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0053

AN/ALM-99 JAMMING TRANSMITTERS AND AN/ALM-107 COUNTERMEASURES TEST STATION INTERMEDIATE MAINTENANCE
Course Number: C-102-3946.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 11 weeks (440 hours).
Exhibit Dates: 3/73-Present.
Objectives: To train enlisted personnel in the maintenance, repair, and functional testing procedures for special-purpose radio transmitters.
Instruction: Lectures and practical exercises in the theory and operation of radar set control boxes and test sets.
Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0054

AN/ALM-108 RECEIVER TEST CONSOLE
AN/ALM-99 TELEVISION RECEIVERS AND CONTROL MODULATION INTEGERS, INTERMEDIATE MAINTENANCE
Course Number: C-102-3945.
NV-1715-0055

AN/ALQ-92 COUNTERMEASURES SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3708
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 4 weeks (200 hours).
Exhibit Dates: 4/73-Present.

Objectives: To train enlisted personnel in the maintenance, repair, and testing of specific electronic receivers.

Instruction: Lectures and practical experience in functional analysis and power generation, surveillance receivers, fault isolation, and circuit analysis.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic communications, 3 in electronic communications laboratory (3/74), in the lower-division baccalaureate/associate degree category, 1 semester hour in electronic communications laboratory (3/74).

NV-1715-0056

AN/URT-23 RADIO TRANSMITTER WITH AN/URA-38 ANTENNA COUPLER MAINTENANCE (ELECTRONICS TECHNICIAN, CLASS C1)

(AN/URR-25 RADIO TRANSMITTING SET, AND AN/URA-38 ANTENNA COUPLER MAINTENANCE, CLASS C)

Course Number: A-101-0049; A-101-0051
Location: Fleet Training Center, Norfolk, VA; Service School Command, San Diego, CA.
Length: 3 weeks (90 hours).
Exhibit Dates: 4/72-Present.

Objectives: To train enlisted personnel in the operation, and basic maintenance of specific radio transmitter sets.

Instruction: Practical and theoretical instruction in the operation and preventive and corrective maintenance of a single frequency transmitter.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics or communications (11/77).

NV-1715-0057

AN/ALQ-76 INTERMEDIATE MAINTENANCE

Course Number: C-102-3069
Location: Air Maintenance Training Detachment, Cherry Point, NC.
Length: 6 weeks (240 hours).
Exhibit Dates: 2/73-Present.

Objectives: To train enlisted personnel in the maintenance, repair, and troubleshooting of specific radio transmitters.

Instruction: Practical experience in aligning, troubleshooting, and repair of radio transmitters.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications, 2 in electronic communications laboratory (3/74).

NV-1715-0058

AN/ARC-142 H.F. COMMUNICATIONS SYSTEM INTERMEDIATE MAINTENANCE

Course Number: C-102-3582
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 4 weeks (120 hours).
Exhibit Dates: 2/73-Present.

Objectives: To train enlisted personnel in the maintenance and repair of specific transmitter-receiver sets.

Instruction: Practical experience in the introduction to radio sets, system description, bench check-out; power distribution, including block-diagram and functional analysis; and fixed-frequent control.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic communications, 1 in electronic communications laboratory (3/74).

NV-1715-0059

AN/ARC-143 COMMUNICATIONS SYSTEM INTERMEDIATE MAINTENANCE

Course Number: C-102-3581
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 2/73-Present.

Objectives: To train enlisted personnel in the maintenance, repair, and functional testing of specific communications systems.

Instruction: Lectures and practical experience in communications system theory of operation, UHF radio test sets, system description, radio, self-control, and functional analysis.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications laboratory (3/74).

NV-1715-0060

AN/ALQR-56 MID-BAND TUNER

INTERMEDIATE MAINTENANCE

Course Number: G-102-3072
Location: Air Maintenance Training Detachment, Cherry Point, NC.
Length: 4 weeks (120 hours).
Exhibit Dates: 4/72-Present.

Objectives: To train enlisted personnel to maintain and repair tuners.

Instruction: Practical experience in tuner operation, check-out, alignment, and troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0061

SUBMARINE RADAR MAINTENANCE (ENLISTED)

Course Number: F-104-010
Location: Submarine School, Groton, CT.
Length: 3 weeks (90 hours).
Exhibit Dates: 4/68-Present.

Objectives: To train submarine force electronics technicians to maintain and repair AN/PS-13 radar sets.

Instruction: Lectures and practical exercises in AN/PS-13 operation theory, maintenance procedures, standard submarine test equipment, and safety precautions.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0062

1. SUBMARINE GYROCOMPASS MK 19 MOD 3A

2. SPERRY MK XIX MOD III

GYROCOMPASS

Course Number: A-670-0042; F-623-015
Location: Version 1, Fleet Ballistic Missile Submarine Training Center, Charleston, SC; Version 2, Submarine School, Groton, CT.
Length: Version 1: 4 weeks (120 hours); Version 2: 3 weeks (90 hours).

Objectives: To train striking officers to operate and maintain submarine gyrocompasses and associated signal amplifiers.

Instruction: Lectures and practical exercises in the review of trigonometry, electronics, gyrocompass, and magnetic amplifiers, gyroscopic principles, and operation and preventive maintenance of the Sperry Mk 19 Mod 3A and 3R gyrocompasses.

Credit Recommendation: In the vocational certificate category, credit in electronics on the basis of institutional examination (3/74), in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional examination (3/74).

NV-1715-0063

ELECTRONICS TECHNICIAN, CLASS C, SSBN NAVIGATION AIDS TECHNICIAN MAINTENANCE

Course Number: A-193-034
Location: Electronics Technician School, Dam Neck, VA.
Length: 7 weeks (210 hours).
Exhibit Dates: 11/72-Present.

Objectives: To train electronics technicians to operate and maintain environmental detector systems, frequency-time standards, Lorand C receiving sets, radio navigation sets, and sonar sounding sets.

Instruction: Lectures and practical exercises in the operation of navigational subsystems of fleet ballistic missile submarines, including equipment familiarization and operation, technical maintenance, subsystem tie-in, and utilization of test equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).
NV-1715-0067

ELECTRONICS TECHNICIAN, CLASS C, SSBN
SHIPS INERTIAL NAVIGATION, FBM TENDER NAVIGATION MAINTENANCE
Course Number: A-193-0037.
Location: Guided Missiles School, Dam Neck, VA.
Length: 6 weeks (210 hours).
Exhibit Dates: 11/72-12/74.
Objectives: To train electronics technicians to maintain navigational aids equipment.

Instruction: Lectures in navigation and introduction to Mk 2 ships inertial navigation systems. classified information.

Credit Recommendation: In the baccalaureate/associate degree category, credit in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0067

A-6 AN/ASQ-61A BALLISTICS COMPUTER THEORY
Course Number: C-150-3766.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 7 weeks (280 hours).
Exhibit Dates: 11/71-Present.

Objectives: To train maintenance personnel in the operation of AN/ASQ ballistic computer sets.

Instruction: Lectures and practical exercises in flip-flops, computer organization, logic circuits, adders, and ballistics computer sets.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer systems (3/74), in the lower-division baccalaureate/associate degree category, 1 semester hour in computer systems (3/74).

NV-1715-0068

A-6 AN/ASQ-61 BALLISTICS COMPUTER INTERMEDIATE MAINTENANCE
Course Number: C-150-3763.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 6 weeks (240 hours).
Exhibit Dates: 11/71-Present.

Objectives: To train maintenance personnel in the operation of AN/ASQ-61A ballistic computer sets.

Instruction: Lectures and practical exercises in ballISTICS systems on the basis of institutional examination.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0069

AN/AMJ-32(V) INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 4 weeks (160 hours).
Exhibit Dates: 11/72-Present.

Objectives: To train fleet maintenance personnel in intermediate maintenance techniques, including inspection, disassembly, assembly, and troubleshooting.

Instruction: Lectures and practical exercises in operational theory, maintenance and troubleshooting, and automatic and semiautomatic testing procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0070

A-7E AN/ASN-91 TACTICAL COMPUTER INTERMEDIATE MAINTENANCE
Course Number: C-102-3784.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 6 weeks (240 hours).
Exhibit Dates: 1/71-Present.

Objectives: To train fleet maintenance personnel to operate, maintain, and repair the AN/ASN-91 computer, special support equipment, and loader-verify.

Instruction: Lectures and practical exercises in the AN/ASN-91 computer system, including programming and data flow, computer circuit analysis, test benches, and loader-verify.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0071

A-6 MEMORY DRUM TEST CONSOLE, AN/ASM-316 (XN-1) AND CARD AND MODULE TESTER INTERMEDIATE MAINTENANCE
Course Number: C-150-3769.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 7 weeks (280 hours).
Exhibit Dates: 2/70-Present.

Objectives: To train maintenance personnel to operate and maintain AN/ASM-316 (XN-1) memory drum test consoles and card and module testers.

Instruction: Lectures and practical exercises in the theory of operation, maintenance, reliability testing, and repair of the memory drum test consoles, card and module testers, and ballistics computer sets.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0072

TARTAR DSOT ANALYSIS MISSILE FIRE CONTROL SYSTEM Mk 74 MOD 0
Course Number: A-121-0096; A-121-0097.
Location: Version 1: Guided Missiles School, Dam Neck, VA; Version 2: Training Center, Mare Island, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 10/72-Present.

Objectives: To train fleet Tartar systems supervisors to conduct a defense system operational test (DSOT), analyze the results, and initiate corrective actions.

Instruction: Lectures and practical exercises in DSOT analysis, including introduction to DSOT, DSOT and ADSOT procedures, DSOT practical, system casualty analysis, system tests, specific radar test set, specific systems dynamic tester, and specific missile simulators.

Credit Recommendation: No credit because of the limited technical nature of the course (5/74).
NV-1715-0073
AN/ALH-6 RECODER/REPRODUCER INTERMEDIATE MAINTENANCE
Course Number: C-102-3073.
Location: Air Maintenance Training Detachment, Cherry Point, NC.
Length: 3 weeks (120 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train maintenance personnel to maintain, operate, and service AN/ALH-6 recorder/reproducer systems.
Instruction: Lectures and practical exercises in A/D converters, digitsers, AN/ALH-6 systems, troubleshooting techniques, and test equipment.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0074
A6A PROGRAMMER, SEMI-AUTOMATIC-TEST EQUIPMENT INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 14 weeks (560 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train maintenance personnel to maintain the programming test group equipment.
Instruction: Lectures and practical exercises in programming test groups, program analysis, test benches, and GT-1 programming test stations.
Credit Recommendation: In the vocational certificate category, credit in computer programming to the basis of institutional examination (3/74).

NV-1715-0075
Mk NC-2 PLOTTER MOD 1A (SPERRY) MAINTENANCE, CLASS C
Course Number: A-623-0020; A-623-0021.
Location: Technical Training Command, Norfolk, VA; Technical Training Command, Cherry Point, NC.
Length: 4 weeks (160 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train enlisted personnel to maintain, operate, and repair the Mk NC-2 Mod 1A plotting systems.
Instruction: Lectures and practical exercises in review of basic electronics, synchro/servo systems, solid-state devices, plotting systems and tables, transistors, and voltage networks.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74). Version 2: In the vocational certificate category, 2 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74). Version 2: 4/69-7/71.

NV-1715-0076
Mk NC-2 PLOTTER MOD 2/2A MAINTENANCE, CLASS C
Course Number: A-623-0015; A-623-0016.
Location: Version 1: IC, A School, San Diego, CA; Version 2: MOD Class C School, Norfolk, VA.
Objectives: To train interior communications electronic technicians to maintain, troubleshoot, and repair the Mk NC-2 Mod 2/2A plotting system and the dead-reckoning analyzer-indicator Mk 9 Mod 2.
Instruction: Lectures and laboratories in solid-state devices, voltage networks, transistors, synchro/servo systems, dead-reckoning analyzer-indicator, plotting tables, and troubleshooting procedures.
Credit Recommendation: Version 1: In the vocational certificate category, 4 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74). Version 2: In the vocational certificate category, 2 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74). Version 2: 4/69-7/71.

NV-1715-0077
AN/ARC-101 INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Cherry Point, NC.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train enlisted personnel to repair and maintain specific radio transceivers.
Instruction: Practical experience in VHF receivers, circuit/analyzer, oscillators, transmitters, and power supplies.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications laboratory (3/74).

NV-1715-0078
GROUND CONTROLLED APPROACH ELECTRONICS TECHNICIAN, RADAR SET AN/MPN-1B, CLASS C
Course Number: Not available.
Location: Air Technical Training Unit, Olath, KS.
Length: 15 weeks (400 hours).
Exhibit Dates: 8/57-12/68.
Objectives: To train electronics technicians to operate and maintain ground control approach installations.
Instruction: Lectures and laboratories in review of basic electronics and radar circuits; advanced radar circuit theory; communications equipment, search radar systems, and precision radar systems.
Credit Recommendation: In the vocational certificate category, 7 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74).

NV-1715-0079
GROUND CONTROLLED APPROACH ELECTRONICS MAINTENANCE, RADAR SET AN/CPN-7, CLASS C
Location: Air Technical Training Center, Glynn Co., GA.
Objectives: To train electronic technicians to maintain and operate complete ground control approach installations.
Instruction: All Versions: Lectures and laboratories in radar circuit theory, synchros, search radar, systems, precision radar systems, and communications equipment. Version 2: Includes a complete introduction to basic radar circuits.
Credit Recommendation: Version 1: In the vocational certificate category, 6 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74).
the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74). Version 2: In the vocational certificate category, 8 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74).

NV-1715-0081

1. GROUND CONTROLLED APPROACH MAINTENANCE (ENGINEER), CLASS C
2. GROUND CONTROLLED APPROACH MAINTENANCE (ENGINEER), RADAR SETS AS AN/MCPN-4A AND AN/MCPN-5, CLASS C
3. GROUND CONTROLLED APPROACH MAINTENANCE (ENGINEER), RADAR SETS AS AN/MCPN-4A AND AN/MCPN-5, CLASS C

(GROUND CONTROLLED APPROACH ENGINEER, CLASS C, AN/MCPN-5)

Course Number: Not available.

Location: All

Instruction: Lectures and practical exercises in electrical theory, operation, and maintenance of radar sets

Objectives: To train maintenance personnel to operate, maintain, and repair radar sets

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics (3/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics (3/74); in the upper-division baccalaureate category, credit in electricity or electrical laboratory on the basis of institutional examination (3/74).

NV-1715-0082

MK, NC-2 PLOTTER MOD 0 MAINTENANCE, CLASS C

Course Number: A-623-0018; A-623-0019.

NV-1715-0083

DATA SYSTEMS TECHNICIAN—DATA CONVERSION GROUP EQUIPMENT MAINTENANCE, CLASS C

Course Number: A-150-0057

Location: Naval Schools Command, Mare Island, CA

Length: 20 weeks (600 hours)

Exhibit Dates: 10/72-Present

Objectives: To train data systems technicians to maintain and repair data converter group equipment.

Instruction: Lectures and practical exercises in data systems theory and maintenance procedures, including digital data converter fundamentals, dynamic synchro data source equipment maintenance, radar azimuth converter maintenance, sonar azimuth converter fundamentals, video signals simulator theory of operation and computer message format signal data converter equipment maintenance, and beacon video processor system fundamentals and troubleshooting procedures.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0084

IOIC SYSTEMS MAINTENANCE

Course Number: D-150-019

Location: Intelligence Processing System Training Facility, Albany, GA

Length: 28 weeks (1160 hours)

Exhibit Dates: 11/72-Present

Objectives: To train maintenance personnel to maintain and repair EDP and intelligence display equipment.

Instruction: Lectures and practical exercises in EDP familiarization, theory of operation and maintenance procedures for input/output adapter, control signal converter, controller, program request panel, Itrek viewer/printer, film editor, and Itrek copy camera; mechanical alignment procedures and troubleshooting techniques; input/output drawer and keyboard, pneumatic, power supply, and memory operation; and video, TV monitor sections, and electronics logic circuitry theory of operation, maintenance, repair and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in computer science (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in computer science (3/74).

NV-1715-0085

ELECTRONICS TECHNICIAN, CLASS C, SSBN CNC TECHNICIAN MAINTENANCE

Course Number: A-193-0028

Location: Electronics Technician, Class C School, Dam Neck, VA

Length: 32 weeks (1116 hours)

Exhibit Dates: 6/70-Present

Objectives: To train electronics technicians to operate, maintain, and repair central navigation computers, navigation control consoles, digital-to-digital converters, analog-to-digital converters, and magnetic tape equipment.

Instruction: Lectures and laboratories in familiarization, operation, and technical maintenance of central navigation computers, navigation control consoles, magnetic tape equipment, D/D and D/A converters, data processing subsystems, and navigation subsystems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the upper-division baccalaureate category, 3 semester hours as technical elective in electronics areas (3/74).

NV-1715-0086

COMPUTER MK 1A MAINTENANCE

Course Number: J-131-0138; J-113-1382

Location: Fleet Anti-Air Warfare Training Center, Dam Neck, VA

Length: 4 weeks (140 hours)

Exhibit Dates: 6/72-Present

Objectives: To train shipboard fire control technicians to test and maintain MK 1 and MK 1A computers.

Instruction: Lectures and practical exercises in basic theory of operation of MK 1A computers and MK 1 Star Shell computers, testing and casualty analysis, and preventive and corrective maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0087

DATA SYSTEMS TECHNICIAN, CLASS C, AN/ UYK-5(V) PERIPHERAL MAINTENANCE

Course Number: A-150-0042

Location: Naval Schools Command, Mare Island, CA

Length: 10 weeks (300 hours)

Exhibit Dates: 11/71-Present

Objectives: To train data systems technicians to operate, maintain, and repair computer peripheral equipment.

Instruction: Lectures and practical exercises in theory of operation, system maintenance, and troubleshooting of digital data recorder-reproducers, card reader-punch, data processing line printers, input-output keyboard printers, and motor generator/controllers.

Credit Recommendation: In the vocational certificate category, 8 semester hours in computer science (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in computer science (3/74).
NV-1715-0088
AN/SRC-20, AN/SRC-21 Radio Sets Maintenance (Electronics Technician, Class C)

Course Number: A-101-0015; A-101-0016; A-101-0017

Location: Electronics Technician, Class C School, San Diego, CA; Electronics Technician, Class C School, Norfolk, VA; Electronics Technician, Class C School, Pearl Harbor, HI; Electronics Technician, Class C School, Treasure Island, CA.

Length: 4 weeks (140–160 hours).

Exhibit Dates: 5/69–Present.

Objectives: To train enlisted personnel to operate, maintain, and repair the AN/SRC-20/21 radio sets and associated test equipment.

Instruction: Lectures and laboratories in AN/SRC-20/21 radio set function during transmission, reception, and testing; common faults and their causes; techniques of maintenance and repair of AN/SRC-20/21 radio sets; AN/SRC-20/21 block diagram; AN/SRC-20/21 operational maintenance; AN/SRC-20/21 maintenance and repair equipment operation; AN/SRC-20/21 troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronic communications (11/77).

NV-1715-0089
Transceiver AN/SRC-20 Combined Maintenance (AN/SRC-20 Radio Transceiver) (AN/SRC-20, Operation and Maintenance, Enlisted)

Course Number: A-101-0036; L-101-0015; F-101-016

Location: Submarine Training Center, Charleston, SC; Submarine Training Center, Pearl Harbor, HI.

Length: 3 weeks (80–90 hours).

Exhibit Dates: 5/68–Present.

Objectives: To train submarine radiomen and electronics technicians to operate, maintain, and repair the AN/SRC-20 radio transceivers.

Instruction: Lectures and laboratories in AN/SRC-20 operation principles, audio and modulator circuits, squelch circuits, frequency multiplier oscillator, power distribution and amplification, block diagram, maintenance procedures, and basic and advanced troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications laboratory (9/77).

NV-1715-0090

Course Number: A-160-0064; A-160-0065; A-160-0066; F-160-0064; F-160-011

Location: Submarine School, New London, CT; Fleet Ballistic Missile Submarine Training Center, Charleston, SC; Submarine Training Center, Pacific, Pearl Harbor, HI.

Length: 5 weeks (150 hours).

Exhibit Dates: 10/68–Present.

Objectives: To train submarine radiomen and submarine technicians to perform maintenance and repair on the AN/UGC-20/25 teletype machine.

Instruction: Lectures and practical exercises in AN/UGC-20/25 teletype machine fundamentals and operating procedures for each section of the machine, fault isolation and repair to major subassemblies of the electrical and mechanical systems, routine maintenance, cleaning, and material usage.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electromechanical repair, 1 in electromechanical laboratory (9/77).

NV-1715-0091
Data Systems Technician, Class C, Data Transmission Group, Data Terminal Control

Course Number: A-150-017

Location: Naval Schools Command, Mare Island, CA.

Length: 14 weeks (420 hours).

Exhibit Dates: 1/72–Present.

Objectives: To train enlisted personnel who have backgrounds in electronics and digital theory to operate and maintain data transmission equipment.

Instruction: Lectures and laboratories in data transmission equipment operation and block-diagram analysis, with emphasis on testing, maintaining, and repairing of transmitters, receivers, and control sections.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics or computer categories (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as a technical elective in electronics or computer subjects (3/74); in the upper-division baccalaureate category, 3-semester hours as a technical elective in electronics or computer subjects (3/74).

NV-1715-0092
Electronics Technician, AN/SRC-20/21 Radio Receivers

Course Number: A-101-0015; A-101-0016; A-101-0107

Location: Training Center, San Diego, CA; Training Center, San Francisco, CA; Training Center, Norfolk, VA.

Length: 4 weeks (120 hours).

Exhibit Dates: 1/72–Present.

Objectives: To train electronic technicians to maintain and repair the AN/URC-9 shipboard transceiver and associated equipment.

Instruction: Lectures and practical experience in AN/URC-9 shipboard radio transceiver set maintenance and repair, including troubleshooting procedures, UHF maintenance procedures, maintenance and repair equipment operation, and processing and packaging reparables.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (3/74).

NV-1715-0093
AN/AQH-4 Sound Recorder/Reproducer Set Intermediate Maintenance

Course Number: C-102-3596

Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Norfolk, VA; Air Maintenance Training Detachment, North Island, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 2/73–Present.

Objectives: To train fleet maintenance personnel to maintain AN/AQH-4 sound recorder/reproducer sets.

Instruction: Lectures and practical exercises in circuit analysis, alignment, adjustment, and troubleshooting of sound recording and reproducing equipment.

Credit Recommendation: In the vocational certificate category, credit in audio-visual techniques on the basis of institutional examination (3/74).

NV-1715-0094
AN/ARC-38A Single Side Band Transceiver Intermediate Maintenance

Course Number: C-102-3022

Location: Air Maintenance Training Detachment - Whidbey Island, WA; Air Maintenance Training Detachment, Norfolk, VA; Air Maintenance Training Detachment, North Island, CA.

Exhibit Dates: 10/69–Present.

Objectives: To train maintenance personnel to maintain, repair, and test SSB transceivers.

Instruction: Lectures and practical exercises in theory of operation and maintenance procedures, including block-diagram and circuit analysis, bench testing, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (3/74).

NV-1715-0095
Electronics Technician (Class C) AN/URC-58, AN/VRC-46 Radio Sets Maintenance

Course Number: A-101-0036

Location: Service School Command, San Diego, CA.

Length: 3 weeks (90 hours).

Exhibit Dates: 2/72–Present.

Objectives: To train enlisted personnel to align, maintain, and repair AN/URC-58 and AN/VRC-46 radio transceiver sets.
Instruction: Lectures and practical exercises in maintenance procedures, block-diagram analysis, and troubleshooting procedures for AN/URC-58 and AN/VRC-46 transceivers.

Credit Recommendation: In the vocational certificate category, credit in electronics laboratory on the basis of institutional examination (3/74).

**NV-1715-0096**

P-3A/B COMMUNICATIONS NAVIGATION (COMNAVI) ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3545.

Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.

Length: 3 weeks (96 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train experienced technicians to maintain and repair radio navigation equipment.

Instruction: Lectures and practical exercises in radio navigation systems operation; communication system organizational maintenance; and radio navigation equipment, including direction finders, radio altimeters, Loran C, TACAN, and marker beacon maintenance and repair.

Credit Recommendation: In the vocational certificate category, credit in electronics laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74).

**NV-1715-0097**

AVIATION ELECTRONICS TECHNICIAN N (NAVIGATION), CLASS A

Course Number: None.

Location: Technical Training Center, Memphis, TN.


Objectives: To train enlisted personnel in communications equipment maintenance and repair.

Instruction: All Versions: Lectures and laboratories in communications equipment maintenance and repair, including UHF and HF transceiver circuits, test equipment, and troubleshooting procedures; and radio/radar navigational systems operation, test equipment, and troubleshooting procedures.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics, 1 in electrical laboratory (3/73). Version 2: To the lower-division baccalaureate/associate degree category, 3 semester hours in electricity, 3 in electronics, 3 in electronic circuits (12/68); in the upper-division baccalaureate/associate degree category, credit in electronics on the basis of institutional examination (3/74). Version 1: CH-53 COMMUNICATION, NAVIGATION AND IDENTIFICATION (CNI) SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: None.

Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, C. P. Pendleton, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 6/69-Present.

Objectives: To train maintenance personnel to maintain, repair, and functionally test AN/ARC VHF communication sets.

Instruction: Lectures and practical exercises in the operation, circuitry, maintenance, and utilization of test equipment in troubleshooting and bench testing AN/ARC-54 VHF communication sets.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications, 1 in electronic communications laboratories (3/74).

**NV-1715-0098**

AN/ARC-54 VHF COMMUNICATION SET INTERMEDIATE MAINTENANCE

Course Number: None.

Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, C. P. Pendleton, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 6/69-Present.

Objectives: Lectures and practical exercises in the operation, circuitry, maintenance, and utilization of test equipment in troubleshooting and bench testing AN/ARC-54 VHF communication sets.

Instruction: Lectures and practical exercises in the operation, circuitry, maintenance, and utilization of test equipment in troubleshooting and bench testing AN/ARC-54 VHF communication sets.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications, 1 in electronic communications laboratories (3/74).

**NV-1715-0099**

AN/SRN-9 SATELLITE RADIO NAVIGATION SET MAINTENANCE ELECTRONICS TECHNICIAN, CLASS C

( ELECTRONICS TECHNICIAN, CLASS C, AN/SRN-9 RADIO NAVIGATION SET)

Course Number: A-102-0008; A-102-0087.

Location: Service School Command, San Diego, CA; Technical Training Center, Memphis, TN; Fleet Training Center, Norfolk, VA.

Length: 5-6 weeks (160-180 hours).

Exhibit Dates: 3/71-Present.

Objectives: To train technicians with experience in digital techniques to maintain AN/SRN-9 radio navigation sets.

Instruction: Lectures and practical experience in the operation, practical and corrective maintenance of a navigation-receiver and antenna.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics or electronic-communications (11/77).

**NV-1715-0100**

AN/ARC-94 RADIO TRANSCEIVER INTERMEDIATE MAINTENANCE

Course Number: None.

Location: Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Key West, FL; Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, New River, NC.

Length: 3 weeks (114 hours).

Exhibit Dates: 4/69-Present.

Objectives: To train enlisted personnel to maintain and repair AN/ARC-94 radio transceivers.

Instruction: Lectures and laboratories in AN/ARC-94 radio transceiver maintenance and repair, including single-sideband transceiver and receiver, and specific transmitters and receiver circuits.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications, 1 in electronic communications laboratories (3/74).

**NV-1715-0101**

CH-53 COMMUNICATION, NAVIGATION AND IDENTIFICATION (CNI) SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3545.

Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA.

Length: 3 weeks (120 hours).

Exhibit Dates: 3/71-Present.

Objectives: To train enlisted personnel to repair helicopter electronic systems.

Instruction: Lectures and practical exercises in identification, assembly, organizational maintenance, and troubleshooting of CH-53 helicopter electronic equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

**NV-1715-0102**

1. AVIONICS INTERMEDIATE, CLASS B
2. AVIONICS INTERMEDIATE, CLASS B (INTERMEDIATE AVIONICS, CLASS B)

Course Number: C-100-2012; C-102-2012; C-111-2012; C-112-2012.

Location: Air Technical Training Center, Memphis, TN.


Objectives: To train enlisted personnel to perform complex circuit analysis and avionics maintenance procedures.

Instruction: Lectures and practical exercises in mathematics and physics, electronics principles, digital and analog computers and test equipment operation, transmission and reception principles, airborne radar principles, systems analysis, and avionics maintenance and material management procedures.

Credit Recommendation: Version 1: In the vocational certificate category, certificate credit in electronics laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in electricity or electronics, 4 in computer technology, 4 in mathematics (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 5 semester hours in electricity or electronics, and credit in electronics laboratories on the basis of institutional examination (3/74).

**NV-1715-0103**

1. SOLID STATE THEORY FOR ELECTRONIC EQUIPMENT
   (SOLID STATE THEORY)
2. ELECTRONICS TECHNICIAN, CLASS C
   (SOLID STATE FUNDAMENTALS)

NV-1715-0104

1. ELECTRICIAN'S MATE, CLASS C7


Instruction: Lectures and laboratories in trigonometry, AC and DC circuits, vacuum tubes and semiconductors, digital logic and logic circuits, AC and DC drive systems, and controllers operation and troubleshooting procedures; degaussing systems operation and troubleshooting, power supply adjustments, and troubleshooting of electrical systems during operation and maintenance.

Credit Recommendation: Version 1: In the vocational certificate category, 7 semester hours in electricity and electronics, 2 semester hours in computer technology and 2 in computer technology. Version 2: In the vocational certificate category, 3 semester hours in electricity and electronics, 2 in computer technology and 1 in electronics laboratory. Version 3: 2 in the vocational certificate category, 14 semester hours in electricity and electronics, 4 in computer technology, and additional credit in electronics laboratory or the basis of institutional examination (3/74). Version 1: 7 in computer technology and laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and additional credit in electronics laboratory on the basis of institutional examination (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68).

NV-1715-0105

COMMUNICATIONS SYSTEMS TECHNICIAN, CLASS C7


Instruction: Lectures and laboratories in SSB receiver operation, UHF and microwave, multiplexing techniques, and the use and interpretation of wavemeter readings.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electrical laboratory (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/75).

NV-1715-0106

1. AN/GRC-27A MAINTENANCE
2. AN/GRC-27A RADIO EQUIPMENT MAINTENANCE


Instruction: Lectures on AN/GRC-27A radio components, theory of operation, receiver and transmitter electrical and mechanical alignment procedures, modulator power supply adjustments, and troubleshooting and repair of all major components.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications, 1 in electrical laboratory (3/74).

NV-1715-0107

AN/UGA-3A MAINTENANCE

Course Number: F-160-010. Location: Submarine School, Groton, CT. Length: 2 weeks (60 hours). Exhibit Dates: 11/72–Present. Objectives: To train technicians who have completed basic electronics training to maintain and troubleshoot the AN/UGA-3A code converter.

Instruction: Lectures and laboratories in AN/UGA-3A code converter maintenance, and troubleshooting procedures, including equipment familiarization, maintenance and material management production, logic diagram analysis, digital logic circuits analysis and troubleshooting, and special circuits, output oscillator, demodulator, and power supply operation and maintenance.

Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in digital circuits (3/74).

NV-1715-0108

DATA SYSTEMS TECHNICIAN CLASS C DATA DISPLAY GROUP MAINTENANCE

Course Number: A-150-018. Location: Naval Schools Command, Mare Island, CA. Length: 20 weeks (600 hours). Exhibit Dates: 10/72–Present. Objectives: To train enlisted personnel with a background in electronics and digital theory to operate, maintain, and repair data display group equipment.

Instruction: Lectures and practical exercises in operation and maintenance of display consoles, display readouts, symbol generators, radar data switchboards, plug-in module test sets, pulse amplifiers, and communications systems of AN/SYA-4(V) and AN/UYA-4(V) data display groups.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0109

A-6A OA-6672/ASA-48 UNIVERSAL ENCODER TEST CONSOLE INTERMEDIATE MAINTENANCE

Course Number: None. Location: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Whidbey Island, WA. Length: 2 weeks (80 hours). Exhibit Dates: 9/70–Present. Objectives: To train enlisted personnel to maintain and operate universal encoder test console.

Instruction: Lectures and practical exercises in test console description and operation, testing procedures, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0110

DATA SYSTEMS TECHNICIAN RD-294/UYK MAGNETIC TAPE UNIT MAINTENANCE, CLASS C

Course Number: A-150-0071. Location: Naval Schools Command, Mare Island, CA. Length: 3 weeks (90 hours). Exhibit Dates: 3/71–Present. Objectives: To train technicians who have backgrounds in electronics and digital theory to operate, maintain, and repair RD-294/UYK magnetic tape units.

Instruction: Lectures and laboratories in RD-294/UYK magnetic tape unit basics, operational control logic, magnetic tape operators, and system maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0111

COMPUTER DETECTOR (CP-413)/ASA-27 INTERMEDIATE MAINTENANCE

and avionics systems to operate, test, and repair computer devices.

Instruction: Lectures and practical exercises in computer detector operation, function, and theory, including system power supply, block-diagram, drum servo system, and timing generator operation. Includes detector theory, including radar magnetic drum, quantizers, density detectors, and IFF detector design and density detector data acquisition, including data control and counting, servos and translators, target computation, including computer, drum memory, height coordinate computer, and arithmetic and transfer logic; and test circuits and troubleshooting procedures.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0112
AN/APN-70B LORAN SYSTEM
MID-TERM MAINTENANCE
(P-3 AN/APN-70B LORAN SYSTEM INTERMEDIATE MAINTENANCE)
Course Number: C-102-3539.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 10/70-Present.
Objectives: To train maintenance personnel who have backgrounds in AN/APN-70B Loran system theory to operate and maintain the AN/APN-70B Loran system.

Instruction: Lectures in AN/APN-70B components and equipment familiarization, including circuit analysis, block-diagram analysis, radar introduction, low-voltage power supplies, oscillators, and antennas; calibration and alignment procedures; bench setup; troubleshooting Loran equipment and associated test equipment usage; and equipment malfunction isolation and repair procedures.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0113
COMMUNICATIONS OFFICER ASHORE
Course Number: A-4C-0016.
Location: Education and Training Center, Newport, RI.
Length: 3-5 weeks (87-120 hours).
Exhibit Dates: 12/71-Present.
Objectives: To provide officers with instruction in communications procedures, cryptography, and the care and custody of registered publications, security, and operational communications.

Instruction: Lectures and practical exercises in communications procedures, cryptography, and the care and custody of registered publications, security, and operational communications.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0114
P-3 RADAR AND IFF SYSTEMS
INTERMEDIATE MAINTENANCE
Course Number: C-104-3531.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 2-3 weeks (80-120 hours).
Exhibit Dates: 4/70-Present.
Objectives: To train maintenance personnel to maintain, calibrate, align, and maintain P-3 radar and IFF systems.

Instruction: Lectures and practical exercises in radar and IFF systems, components, and equipment; organization and maintenance; and troubleshooting procedures.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0115
P-3 AN/ASA-16 INDICATOR GROUP
ORGANIZATIONAL MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Patuxent River, MD.
Length: 2 weeks (80 hours).
Exhibit Dates: 3/74-Present.
Objectives: To train maintenance personnel to operate, calibrate, align, and maintain AN/ASA-16 indicator groups.

Instruction: Lectures and practical exercises in indicator group components and equipment, organizational maintenance, and troubleshooting procedures.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0116
F-8 AN/APR-30(V) RADAR SET
INTERMEDIATE MAINTENANCE
Course Number: C-102-3585.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 2 weeks (80 hours).
Objectives: To train fleet maintenance personnel on the radar homing and warning set.

Instruction: Lectures and practical exercises in theory of operation of radar homing and warning sets, test equipment, circuit analysis, and intermediate maintenance.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0117
P-3 PT-396/AS AND OA-1768/ASA-13
PLOTTER GROUP INTERMEDIATE MAINTENANCE
Course Number: C-102-3555.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 7/70-Present.
Objectives: To train enlisted personnel to operate, maintain, and isolate malfunctions in PT-396/AS and OA-1768/ASA-13 plotter groups.

Instruction: Lectures and practical exercises in plotter group maintenance and troubleshooting procedures.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0118
P-3 AN/APX-6 RADAR IDENTIFICATION
SYSTEM INTERMEDIATE MAINTENANCE
Course Number: None.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 3/71-Present.
Objectives: To train maintenance personnel to operate, calibrate, align, and maintain AN/APX-6 radar identification systems.

Instruction: Lectures and practical exercises in radar identification system components and equipment, maintenance, and troubleshooting procedures.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0119
UNDERWATER FIRE CONTROL GROUP Mk. 111 MAINTENANCE
Course Number: A-130-0056.
Location: Fleet Antisubmarine Warfare Training Center, Pacific, San Diego, CA.
Length: 18 weeks (540 hours).
Exhibit Dates: 3/76-Present.
Objectives: To provide selected sonar technicians with the necessary skills to maintain the specified fire control equipment.

Instruction: Lectures and practical exercises in the preventive and corrective maintenance of sonar based fire control equipment.

Credit: In the vocational certificate category, 3 semester hours in electronic troubleshooting (9/77).

NV-1715-0120
P-3 AN/AQA-1 SONO INDICATOR SYSTEM
INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 3 weeks (96 hours).
Exhibit Dates: 12/70-Present.
Objectives: To train maintenance personnel to operate, calibrate, align, repair, and maintain AN/AQA-1 sono indicator systems.

Instruction: Lectures and practical exercises in AN/AQA-1 components and equipment familiarization, maintenance procedures, use of test equipment, and troubleshooting.

Credit: No credit because of the limited technical nature of the course (3/74).

NV-1715-0121
P-3 AN/AQA-5 SONAR DATA RECORDING
SYSTEM MAINTENANCE, NO. 46
Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 3-4 weeks (120-160 hours).
Exhibit Dates: 3/68-Present.
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Objectives: To train maintenance personnel in the latest maintenance, modification, and operating procedures for AN/AOA-5 sonar data recording systems.

Instruction: Lectures and practical exercises in AN/AOA-5 sonar data recording system special circuits, functional block diagrams, circuit analyses, system switching, and power supply operation and maintenance techniques.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0122
GROUND CONTROLLED APPROACH OPERATOR, CLASS C
Course Number: Not available.
Location: Air Technical Training Unit, Olatho, KS.
Length: 5-6 weeks (220-240 hours).
Exhibit Dates: 3/65-Present.
Objectives: To train ground control approach operators and maintainers.
Instruction: Lectures and practical exercises in ground control approach equipment operation and maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0123
GROUND CONTROLLED APPROACH CONTROLLER, CLASS C
Course Number: C-222-2013.
Location: Air Technical Training Center, Olynco, GA.
Length: 5-6 weeks (220-240 hours).
Exhibit Dates: 3/65-Present.
Objectives: To train ground control approach controllers and operators.
Instruction: Lectures and practical exercises in ground-controlled approach operating procedures and equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0124
AN/HQS-8 (Series) SONAR MAINTENANCE
Course Number: K-130-1025.
Location: Fleet Anti-Submarine Warfare School, San Diego, CA.
Length: 3 weeks (105 hours).
Exhibit Dates: 6/72-Present.
Objectives: To train sonar technicians to operate and maintain AN/HQS-8 (Series) sonar detection-ranging sets.
Instruction: Lectures and practical exercises in theory and principles of continuous transmission frequency modulated sonar preventive and corrective maintenance of AN/HQS-8 (Series) Sonar, and the 3-M system.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0125
BASIC NAVIGATION WATCHSTANDER (NAVIGATIONAL TECHNICIAN WATCHSTANDER (ENLISTED))
Course Number: F-193-076.
Location: Submarine School, Groton, CT.
Length: 3 weeks (90 hours).
Exhibit Dates: 2/69-Present.
Objectives: To train enlisted personnel to operate and monitor navigational center equipment.
Instruction: Lectures and practical exercises in operation of navigation subsystems, determination systems circuits and operational requirements.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0126
GENERAL SUBMARINE SONAR MAINTENANCE
Course Number: A-130-0027; K-130-567; K-130-1009.
Location: Fleet Anti-Submarine Warfare School, San Diego, CA.
Length: 6-17 weeks (240-595 hours).
Exhibit Dates: 6/70-Present.
Objectives: To train personnel to operate and maintain all sonar equipment found aboard conventional, skvake, skipjack, and SSBN-type submarines.
Instruction: Lectures and practical exercises in operation of navigation subsystems circuits and operational requirements.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0127
GUN FIRE CONTROL/RADAR Mk 25 Mod 3 MAINTENANCE
Course Number: J-113-0118, J-113-1118.
Location: Fleet Combat Direction Systems Training Center, Atlantic, Dam Neck, VA; Fleet Combat Direction Systems Training Center, Atlantic, Newport, RI.
Length: 3 weeks (105 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train personnel to operate and maintain Mk 25 Mod 3 radar equipment.
Instruction: Lectures and practical exercises in capabilities and limitations of gun fire control radar systems, including special circuits, power distribution circuits, transmitter and receiver sections, theory and operation, automatic tracking and range determination systems circuits and operational requirements, and radar signal processing equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0128
NAVIGATION OPERATIONAL CHECKOUT CONSOLE (NOCC) Mk 1 Mod 1 ADVANCED MAINTENANCE
Course Number: A-193-0259; F-193-088.
Location: FBM Submarine Training Center, Charleston, SC.
Length: 4 weeks (160 hours).
Exhibit Dates: Version 1: 12/69-Present.
Objectives: To train electronic technicians to operate and maintain ship's inertial navigation subsystems,autopilot systems, and associated equipment.
Instruction: Lectures and practical exercises in operation of navigation subsystems circuits and operational requirements, and associated equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).
Objectives: To train enlisted personnel who have electronics backgrounds to operate and maintain AN/SPN-38 and AN/WPN-3 Lorcan C receiving sets.

Instruction: Lectures in Lorcan C receiving sets operation theory and logic analysis; logic fundamentals; binary mathematics; Boolean algebra; and Lorcan C operation and circuit analysis, generation system and generator logic analysis, voltage-controlled reference oscillator circuit analysis, strobe, control and strobe pulse logic analysis, power supply, maintenance standards, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

**NV-1715-0132**

ANTENNA COUPLER CU-1441 COMBINED

MAINTENANCE

(COUPLER, ANTEENA, CU-1441/BRR

COUPLING AND MAINTENANCE)

ANTENNA SERIES (CU-1441/BRR MULTICOUPLER)

Course Number: A-101-0107; F-101-024; L-101-0031.

Location: Submarine School, New London, CT; Fleet Battery Missile Submarine Training Center, Gulfport, MS; Submarine Training Center, Pacific, Pearl Harbor, HI.

Length: 2 weeks (60–65 hours).


Objectives: To train rated electronics technicians and designated strikers to operate and maintain the CU-1441/BRR antenna multicooper.

Instruction: Lectures in symbolic integrated maintenance system familiarization; technical manual analysis; circuit analysis; and operational, technical, and preventive maintenance alignment, adjustment and calibration on the CU-1441/BRR antenna multicooper.

Credit Recommendation: No credit because of the military-specific nature of the course (3/74).

**NV-1715-0133**

UNDERWATER FIRE CONTROL GROUP MK 114 MAINTENANCE

Course Number: A-130-0057; A-130-0058.

Location: Fleet Sonar School, Key West, FL; Fleet Submarine Warfare Training Center, Pacific, San Diego, CA.

Length: 12–14 weeks (360–420 hours).

Exhibit Dates: November 1971–Present.

Objectives: To train enlisted personnel to perform maintenance on the specified fire control systems.

Instruction: Lectures and practical exercises in Mark 114 fire control system maintenance, including introduction to weapons, basic maintenance techniques, relay transmitter and position indicator operation, input data flow and stabilization circuit analyzer operation, computer maintenance, and attack console operation.

Credit Recommendation: In the vocational certificate category, 1 semester hour in synchro-resolver systems (9/77).

**NV-1715-0134**

1. AVIATION ELECTRICIAN'S MATE, CLASS B (ADVANCED)

2. AVIATION ELECTRICIAN’S MATE, CLASS B

Course Number: None.

Location: Air Technical Training Center, Jacksonville, FL.


Objectives: To provide aviation electricity maintenance technicians with advanced theoretical training in electricity and electronics.

Instruction: Lectures and practical exercises in advanced principles of DC theory, AC theory, and electronics; aviation electrical and electronic equipment, including motors, generators, aircraft compasses, navigational equipment, flight control equipment, and analog and digital computers; troubleshooting procedures; principles of leadership and management; and supply and maintenance control.

Credit Recommendation: Version 1: In the vocational certificate category, 15 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 6 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 9 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 9 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (3/74).

**NV-1715-0135**

AVIATION ELECTRICIAN'S MATE, CLASS B (INTERMEDIATE)

Course Number: C-602-2014.

Location: Air Technical Training Center, Memphis, TN; Air Technical Training Center, Jacksonville, FL.


Objectives: To provide aviation electricians, apprentices with advanced theoretical training in electricity and electronics.

Instruction: Lectures and practical exercises in advanced principles of DC theory, AC theory, and electronics; aviation electrical and electronic equipment, including motors, generators, aircraft compasses, navigational equipment, flight control equipment, and analog and digital computers; troubleshooting procedures; principles of supervision and management.

Credit Recommendation: Version 1: In the vocational certificate category, 15 semester hours in electricity or electronics (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in electrical technology, and 3 in computer technology, and 3 in machinery technology (6/75). Version 2: In the vocational certificate category, 15 semester hours in electricity or electronics (6/75). Version 3: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 6 semester hours in electricity, and 3 in machinery technology (6/75). Version 4: In the vocational certificate category, 15 semester hours in electricity or electronics (6/75). Version 5: In the lower-division baccalaureate/associate degree category, 2 semester hours in mathematics, and 3 in physics, and 9 in electricity (6/75). Version 6: In the vocational certificate category, 20 semester hours in mathematics, physics, and electrical engineering (3/74), in the lower-division baccalaureate category, 6 semester hours in electricity or electronics, and credit in electrical laboratory, on the basis of institutional examination (3/74).

**NV-1715-0136**

MK 152 COMPUTRA COMMON CORE

Course Number: A-113-0001.

Location: Service School Command, Great Lakes, IL.

Length: 8 weeks (206 hours).

Exhibit Dates: 1/75–Present.

Objectives: To train officers in corrective and preventive maintenance of the MK 152 computer and its I/O console and motor generator set.

Instruction: Topics include the recognition of normal and abnormal operation and the use of diagnostic programs to identify malfunction during maintenance of the MK 152 computer and associated I/O console. Also includes preventive maintenance and repair of the MK 9 motor generator set.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computer systems and 3 in computer systems laboratory (9/77).

**NV-1715-0137**

1. AVIATION ELECTRONICS TECHNICIAN, CLASS C7

2. AVIATION ELECTRONICS TECHNICIAN, CLASS B

3. AVIATION ELECTRONICS TECHNICIAN, CLASS B

Course Number: C-110-2011; C-110-2011; C-111-2011; C-112-2011.

Location: Air Technical Training Center, Memphis, TN.


Objectives: To train aviation electronics technicians officers to maintain and supervise the maintenance of avionics systems.

Instruction: All Versions: Lectures and practical exercises in algebra, trigonometry, electricity and magnetism, AC and DC circuits, basic electronics, small-signal and power amplifier analysis, synthesizers, servos, transmission lines, antennas, and modulation techniques. Version 1: Instruction includes semiconductors, rectifiers, power supplies, amplifiers, oscillators, limiters, clampers, multivibrators, counters, GRTs, and analogous computers. Version 2: Instruction includes analytical geometry, calculus, limits, differentiation, integration, integrals, transcendental functions, partials, double integrals, infinite series, differential equations, atomic physics, and digital computers.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in mathematics, 3 in physics, and 9 in electricity (6/75); in the lower-division baccalaureate/associate degree category, 2 semester hours in mathematics, 3 in physics, and 9 in electricity (6/75). Version 2: In the vocational certificate category, 20 semester hours in mathematics, physics, and electrical engineering (3/74), in the lower-division baccalaureate category, 6 semester hours in electricity or electronics, and credit in electrical laboratory, on the basis of institutional examination (3/74).
COURSE EXHIBITS

calculator/associate degree category, 4 semester hours in mathematics; 3 in physics, 10 in electricity or electronics (3/74); in the upper-division baccalaureate category, 5 semester hours in mathematics, 5 in physics, 5 in electrical engineering (12/68). Version 3: In the vocational certificate category, 25 semester hours in physics and electrical engineering (3/74); in the lower-division baccalaureate/associate degree category, 15 semester hours in physics and electrical engineering (3/74); in the upper-division baccalaureate category, 6 semester hours in physics, 12 in electrical engineering (12/68).

NV-1715-0138
AVIATION FIRE CONTROL TECHNICIAN (F)
- CONVERSION (CLASS C)

Course Number: None.
Location: Air Weapons Systems School, Jacksonville, FL.
Length: 27 weeks (1080 hours).
Exhibit Dates: 8/57-12/68.
Objectives: To train enlisted personnel to inspect, test, and repair aircraft armament systems.

Instruction: Lectures and practical experience in AC and DC circuit fundamentals, the inspection, testing, and repair of communication circuits, gyroscopes, vacuum tubes, radar, accelerometers, optics, and servomechanisms.

Credit Recommendation: In the vocational certificate category, 9 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics; in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and additional credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1715-0139
AVIATION FIRE CONTROL TECHNICIAN (B)
- CONVERSION (CLASS C)

Course Number: Not available.
Location: Air Weapons Systems School; Jacksonville, FL.
Length: 27 weeks (1080 hours).
Exhibit Dates: 8/57-12/68.
Objectives: To train Navy and Marine Corps enlisted personnel to isolate and troubleshoot electronic and mechanical malfunctions in fire control systems.

Instruction: Lectures and practical experience in AC circuit fundamentals; series and parallel resonant circuits; vacuum tube characteristics, including diodes, triodes, tetrodes, and pentodes; full- and half-wave rectifiers and filter circuits; audio frequency amplifier basics, including R-C, impedance, and transformer coupled amplifiers; power amplifiers; receiver alignment and troubleshooting; radio receiver theory, including amplifiers, detectors, superheterodyne systems, and I-F systems.

Credit Recommendation: In the vocational certificate category, 9 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, and credit in electronics laboratory (3/74); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics for non-engineering majors (12/68).

NV-1715-0140
AVIATION FIRE CONTROL TECHNICIAN
- (ARMAMENT CONTROL), CLASS A

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 24 weeks (960 hours).
Exhibit Dates: 6/56-12/68.
Objectives: To train Navy and Marine Corps enlisted personnel to isolate electrical and mechanical malfunctions in fire control systems.

Instruction: Lectures and practical exercises in aviation fire control systems, AC circuits, radar, servomechanisms, and troubleshooting and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 9 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics laboratory, 1 in hydraulics and fluids (3/74).

NV-1715-0141
AVIATION FIRE CONTROL TECHNICIAN (B)
- (BOMB DIRECTOR), CLASS A

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 24 weeks (960 hours).
Exhibit Dates: 6/56-12/68.
Objectives: To train Navy and Marine Corps enlisted personnel to isolate and troubleshoot electronic and mechanical malfunctions in fire control equipment.

Instruction: Lectures and practical experience in AC circuit fundamentals; series and parallel resonant circuits; vacuum tube characteristics, including diodes, triodes, tetrodes, and pentodes; full- and half-wave rectifiers and filter circuits; audio frequency amplifier basics, including R-C, impedance, and transformer coupled amplifiers; power amplifiers; receiver alignment and troubleshooting; radio receiver theory, including amplifiers, detectors, superheterodyne systems, and I-F systems.

Credit Recommendation: In the vocational certificate category, 9 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, and credit in electronics laboratory (3/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0144
AN/APN-120 ELECTRONIC ALTIMETER INTERMEDIATE MAINTENANCE

Course Number: C-102-3742.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 4 weeks (160 hours).
Exhibit Dates: 5/68-Present.
Objectives: To train electronic repairmen to maintain electronic altimeters.

Instruction: Lectures and practical exercises in altimeter principles; low- and high-altitude systems theory, control circuits, power supply, amplifiers, modulators, oscillators, and test equipment maintenance; and electronic countermeasures equipment, operation, maintenance, and testing procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics and electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0145
RA-SC AN/ASQ-56A INTEGRATED ELECTRONICS CENTRAL AND RELATED SYSTEMS INTERMEDIATE MAINTENANCE

Course Number: C-102-3741.
Location: Air Maintenance Training Detachment, Albany, GA.
Length: 7 weeks (280 hours).
Exhibit Dates: 5/68-Present.
Objectives: To train maintenance personnel to repair integrated electronic airborne systems.

Instruction: Lectures and practical exercises in UHF communications repair, tactical air navigation system principles, pulse coding and decoding techniques, and antenna and intercommunication system theory and troubleshooting procedures.
Credit Recommendation: In the vocational certificate category, 6 semester hours in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (3/74).

NY-1715-0146

A-7E AN/ASM-37 INERTIAL MEASUREMENT SYSTEM TEST SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3798.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 6 weeks (240 hours).
Exhibit Dates: 11/72-Present.

Objectives: To train maintenance personnel to perform intermediate testing and diagnosis of electronic systems.

Instruction: Lectures and practical exercises in electrical and electronic fundamentals, logic functions, trace signal flow, power supplies, switching units, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical and electronic circuits.}

NY-1715-0147

MK 35 POWER DRIVE MAINTENANCE FOR 3/50 CALIBER RAPID FIRE GUN MOUNT

Course Number: K-041-2051.
Location: Training Center, San Diego, CA.

Length: 2 weeks (60 hours).
Exhibit Dates: 10/72-Present.

Objectives: To train enlisted personnel to perform preventive and corrective maintenance and casualty analysis on the MK 35 power drive rapid-fire gun mount.

Instruction: Lectures and practical exercises in electrical and electronic fundamentals, function, and operation, power control, gun mount control, and motor field control circuits, and inspection, testing, and preventive and corrective maintenance procedures.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NY-1715-0148

CHAFFROC MK 28-MOD 1 LAUNCHER SYSTEMS MAINTENANCE

Course Number: K-041-2010.
Location: Fleet Training Center, San Diego, CA.

Length: 3 weeks (90 hours).
Exhibit Dates: 2/73-Present.

Objectives: To train enlisted personnel who have experience in basic hydraulics and electricity to operate, load, and launch decoys.

Instruction: Lectures in basic electrical review, including Ohm's law, magnetism, conductors, capacitors, circuits, meters, and batteries; hydraulics principles, including Pascal's law, Bernoulli's law, and hydraulic pumps; and launch operation, including electrical wiring, fuel systems, applied hydraulics, and local and remote control techniques.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NY-1715-0149

SOLID STATE CIRCUIT TROUBLESHOOTING

Course Number: C-000-3189.
Location: Air Maintenance Training Detachment, Miramar, CA.

Length: 2 weeks (80 hours).
Exhibit Dates: 2/73-Present.

Objectives: To train maintenance personnel to troubleshoot and repair solid-state electronic circuits.

Instruction: Lectures and practical exercises in solid-state circuits and troubleshooting, including diode limiters, rectifiers, detector diodes, silicon controlled rectifier circuits, basic types of transistor circuits, multivibrators and oscillators, DC and operational amplifiers, and test equipment for troubleshooting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional examination (3/74).

NY-1715-0150

C-2A ELECTRICAL AND INSTRUMENTS ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3491.
Location: Air Maintenance Training Detachment, Naval Air Station, CA.

Length: 3 weeks (120 hours).
Exhibit Dates: 8/67-Present.

Objectives: To train aviation electricians to repair, maintain, and troubleshoot aircraft electrical and instrument systems.

Instruction: Lectures and practical exercises in aircraft AC and DC power systems operation, circuit analysis, maintenance, and repair; and aircraft utility, environmental, instrumental, and electrical systems maintenance, repair, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74).

NY-1715-0151

F-4B 20 KV A AND AN/AJB-3A ELECTRICAL ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3825.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA.

Length: 2 weeks (80 hours).
Exhibit Dates: 2/73-Present.

Objectives: To train flight maintenance personnel to maintain power generating systems and loft bomb release computer systems on F-4B aircraft.

Instruction: Lectures and practical exercises in circuit analysis and organizational maintenance of power generating and loft bomb release computer systems, use of test equipment, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NY-1715-0152

RA-SC PHOTOGRAPHIC ELECTRONICS FUNDAMENTALS

Course Number: C-602-3748.
Location: Air Maintenance Training Detachment, Albany, GA.

Length: 4 weeks (120 hours).
Exhibit Dates: 1/70-Present.

Objectives: To train maintenance personnel to perform the fundamentals of electronic systems, electronics, and transistors in preparation for camera shop maintenance instruction.

Instruction: Lectures and practical exercises in basic electronics and solid-state electronics, including resistance, inductance, capacitance, circuits, conductor transistors, power supplies, semiconductor devices, and test equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics and electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and electronics laboratory (3/74).

NY-1715-0153

F-4B/1 ADVANCED ELECTRICAL ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3822.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA.

Length: 3 weeks (120 hours).
Exhibit Dates: 6/72-Present.

Objectives: To train flight maintenance personnel to maintain F-4B/1 power-generating, air data computer, and automatic flight control groups.

Instruction: Lectures and practical exercises in power-generating systems, air data computer sets and related systems, automatic flight control groups, circuit analysis, and organizational maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics (3/74).

NY-1715-0154

1. AVIATION ANTISUBMARINE WARFARE TECHNICIAN, CLASS A (AVIATION ELECTRONICS TECHNICIAN S (ANTISUBMARINE), CLASS A)

*Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.

Objectives: To train enlisted personnel to maintain and repair antisubmarine warfare equipment.

Instruction: All Versions: Lectures and practical exercises in antisubmarine warfare equipment repair, including airborne sonar, special electronic repair, electromechanical systems, magnetic airborne detection systems, and dipping sonar equipment. Version 1: Instruction includes integrated display systems repair. Version 2: Instruction includes electronic fundamentals, UHF and
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VHF, transmitter, theory; and radar electronics, including amplification, rectification, power amplifiers, AC fundamentals, and circuit basics.

Credit Recommendation: Version 1: A credit because of the length of time training required.

Version 2: A credit based on the original curriculum.

Eligibility: Vocational certificate category, 1 semester hour in electricity or electronics (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).


Objectives: To train enlisted personnel in the use of prescribed equipment to repair and maintain electronic equipment.

Instruction: Lectures and practical exercises in the use of prescribed equipment to repair and maintain electronic equipment.

Credit Recommendation: Version 1: No credit because of limited technical nature of the course (3/74). Version 2: No credit because of limited technical nature of the course (3/74).

application to troubleshooting the video display and radar receiving system.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (3/74), in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory, and additional credit in electronics laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74).

NY-1715-0160
1. PHOTOGRAPHIC EQUIPMENT MAINTENANCE
2. PHOTOGRAPHIC EQUIPMENT REPAIR.

Course Number: C-670-2012; C-670-12.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.

Objectives: To train photographer's mate to repair standard mechanical photographic equipment used in naval photography.

Instruction: Version 1: Course uses modular, self-paced individualized instruction as the primary instructional method with a heavy emphasis on performance. It includes eight modules and a five-day performance laboratory. There is an optional one-week aerial cameras and systems module which some students elect to take instead of the eight modules. Note: Students who attend only the nine-day aerial cameras and systems module are ineligible for credit. The eight modules are: photographic laboratory supervision, mechanical application skills, basic camera components, basic DC electricity, SLR and rangefinder camera, applied DC electricity, basic AC electricity, and applied AC electricity. Version 2: Lectures and laboratories in photographic equipment repair, including DC circuit fundamentals, electrical theory, and hand tools usage. Instruction emphasizes camera components and principle of motion picture systems, CMOS, CMOS-28, and KE-9 and still ground cameras (Graflex), multipliers and soldering techniques, twin lens reflex cameras (Mamiyaguchi C-3), dual-curtain focal plane camera (KE-28), and mechanical Rapidye shutters; and photographic laboratory film processing equipment, advanced aerial equipment, and Navy camera control systems repair procedures.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 8 semester hours in camera repair or photographic equipment repair and additional credit in electricity and electronics on the basis of demonstrated skills and/or institutional examination (see note above). Version 2: In the vocational certificate category, 3 semester hours in electronics, and credit in photography on the basis of institutional examination (4/74), in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics, and credit in photography on the basis of institutional examination (4/74).

NY-1715-0161
ANTENNA MULTICOUPLER AN/BRA-16 COMBINED MAINTENANCE
(ANTENNA GROUP AN/BRA-16 FUNCTIONAL CHECKOUT AND MAINTENANCE)

Course Number: A-101-0104; F-101-019.
Location: Submarine School, New London, CT; Fleet Ballistic Missile Submarine Training Center, Charleston, SC; Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 3 weeks (90 hours).
Exhibit Dates: 11/72-Present.

Objectives: To provide the theory and skills to operate, maintain, troubleshoot and repair the AN/BRA-16 submarine antenna system.

Instruction: Lectures and practical exercises in AN/BRA-16 antenna components operation, troubleshooting, and repair, including power supply, control panels, test equipment, maintenance, control charts, antenna circuits, navigation output phasing, and mast preamp circuitry.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (9/77).

NY-1715-0162
AN/ASN-99 PROJECTED MAP DISPLAY SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3787.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 2 weeks (80 hours).
Exhibit Dates: 9/72-Present.

Objectives: To train qualified electronics technicians to operate, maintain, and troubleshoot the AN/ASN-99 projected map display set.

Instruction: Lectures and practical exercises in AN/ASN-99 projected map display set operation, maintenance, and troubleshooting, including servomechanisms and digital logic review, block-diagram analysis, maintenance procedures, and training on model equipment.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NY-1715-0163
CONTINUOUS WAVE ILLUMINATOR (CWI)
COMMON CORE

Course Number: A-113-0070.
Location: Service School Command, Great Lakes, IL.
Length: 4 weeks (160 hours).
Exhibit Dates: 11/74-Semester.

Objectives: To train selected personnel to perform circuit-level fault isolation and planned maintenance on a continuous-wave illuminator.

Instruction: Instruction includes use of instruments to isolate and repair the continuous-wave illuminator radar system, operating procedures, and regular maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in radar systems laboratory (9/72).

NY-1715-0164
E-1B AN/ASN-18 CENTRAL GYRO REFERENCE SYSTEM MAINTENANCE

Course Number: Not available.
Location: Air Maintenance/Training Department, North Island, CA; Air Maintenance Training Detachment, Norfolk, VA.
Length: 6 weeks (240 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel with backgrounds in electronics to maintain, troubleshoot, and repair the AN/ASN-18 central gyro reference system.

Instruction: Lectures and practical exercises in central gyro reference system maintenance and repair, including in-depth functional and circuit-level descriptions of components - power control circuits, circuit cards and card components troubleshooting, electronic control amplifiers, including azimuth, pitch and roll servo signal processing, logic, relay, and power circuitry, and resolver excitation and accelerometer restoring amplifier; navigational computer amplifiers, relay control circuits, power supply, gyroscope angular control, signal data converter, and environmental controls; and complete alignment, troubleshooting, and bench-testing experience.

Credit Recommendation: In the vocational certificate category, credit in electronics or aviation on the basis of institutional examination (4/74); in the lower-division baccalaureate or associate degree category, credit in electronics or aviation on the basis of institutional examination (4/74).

NY-1715-0165
ADVANCED TRANSISTOR THEORY

Course Number: F-000-023.
Location: Submarine School, Groton, CT.
Length: 3 weeks (90 hours).
Exhibit Dates: 2/68-Present.

Objectives: To train electronics technicians to operate, troubleshoot, and repair semiconductor devices.

Instruction: Lectures and laboratories in transistor and circuit theory; energy diagrams; physics and chemistry of crystals; transistor amplifier design gain, construction and basic principles of Zeners, thermistors, and photo and tunnel diodes; AC and DC circuits review, including network theory, and mesh equation solution using determinants, circuit analysis of CE, CB, and CC amplifier configurations using graphical and small signal, b-parameter equivalent circuits, intersubject coupling methods, including use of gain, frequency response, and feedback circuits; transistor applications in digital circuits, high-frequency equivalent circuits, and PET properties; bias equations, stability, and noise design considerations; and unijunction transistors and SCR properties.

Credit Recommendation: In the vocational certificate category, credit in electronics laboratory on the basis of institutional examination (4/74), in the lower-division baccalaureate/associate degree category, 4 semester hours in electronic laboratory (4/74), in the upper-division baccalaureate category, 2 semester hours in electronic engineering on the basis of institutional examination (4/74).
NV-1715-0166

MARINE AIR TRAFFIC CONTROL UNIT
MAINTENANCE MANAGEMENT, CLASS C

Course Number: Not available.
Location: Air Technical Training Center, Glynnco, GA.
Length: 3 weeks (120 hours).
Exhibit Dates: 7/71-Present.
Objectives: To train officer and enlisted personnel to supervise the maintenance and repair of air traffic control systems.

Instruction: Lectures on organization and functions of air traffic control units and air traffic control centers; flying, survey, and flight inspection procedures; maintenance; publication familiarization; supply control and materials management; financial management and maintenance funds administration; and supervision of installation, maintenance, and repair of air traffic control systems, navigation aids, instrument landing, and communications systems.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0167

INTERMEDIATE AVIATION ANTISUBMARINE WARFARE TECHNICIAN, CLASS B

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 34 weeks (1360 hours).
Exhibit Dates: 1/63-Present.
Objectives: To provide aviation antisubmarine warfare technicians with supplemental training in electronics theory and antisubmarine warfare equipment maintenance and repair.

Instruction: Lectures and practical experience in mathematics through trigonometry, electronics, including AC and DC fundamentals, tubes, transistors, power supplies, voltage regulators, video and magnetic amplifiers, oscillators, servomechanisms, mixing and frequency conversion, and analog and digital computer principles.

Credit Recommendation: In the vocational certificate category, 20 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74), in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74), in the upper-division baccalaureate category, 5 semester hours in mathematics, 5 in physics, 5 in engineering electronics (12/68).

NV-1715-0168

ELECTRONICS TECHNICIAN, CLASS C, SSBN NAVDAC FBM TENDER MAINTENANCE

Course Number: A-193-0039
Location: Guided Missiles School, Dam Neck, VA.
Length: 6 weeks (210 hours).
Exhibit Dates: 1/72-Present.
Objectives: To provide electronics technicians with supplemental training in ballistic missile submarine systems maintenance and repair.

Instruction: Laboratory in calibration, testing, and repair of ballistic missile submarine systems equipment, including SDC test systems, servo amplifiers, synchro/resolver, and NAVDAC test sets, and NAVDAC magnetic drum loader operation, maintenance, troubleshooting, and repair; advanced soldering, and wire-wrapping techniques; and ancillary commercial test equipment, including oscilloscope, electronic counter, differential voltmeter, megohmmeter, ratio transformer, RMS voltmeter, and electronic test equipment (3/68).

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74); in the upper-division baccalaureate category, 6 semester hours in electronics laboratory (3/74).

NV-1715-0169

ELECTRONICS SPECIALIZED TRAINING

Course Number: A-100-0031.
Location: Amphibious School Coronado, San Diego, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train electronics technicians to operate, maintain, and repair radio, radar, and photographic equipment.

Instruction: Lectures include radar, SSB transmission, radio frequency interference, and teletype review, waterproofing equipment using waterproofing materials. Credit recommendation: 6 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the upper-division baccalaureate category, 5 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74).

NV-1715-0170

AVIONICS OFFICERS, CLASS O

Course Number: C-4B-2010.
Location: Air Technical Training Center, Memphis, TN.
Length: 40 weeks (1600 hours).
Objectives: To train officers to be avionics officers.

Instruction: Lectures and practical exercises in algebra, trigonometry, differential and integral calculus, and differential equations; calculus-based physics, both traditional and modern; AC and DC circuits, circuit analysis, measurements and standards, electron-magnetic wave theory, microwave devices and principles; and digital and analog computers.


NV-1715-0171

NAVY NUCLEAR WEAPONS ELECTRONICS, CALIBRATION, AND MAINTENANCE (EC) (GUNNER'S MATE TECHNICIAN)

Course Number: A-140-0010.
Location: Defense Atomic Support Agency, Albuquerque, NM.
Length: 12 weeks (472 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train electronics technicians to operate, maintain, and calibrate air and surface nuclear weapons test equipment.

Instruction: Lectures and practical exercises in electrical and electronic fundamentals, and tester maintenance and calibration, including circuit symbols and diagrams, repair procedures, commercial test equipment, performance tests, basic metrology, electrical indicating meters and multimeters, electronic voltmeters, pressure concepts and pressure gauge theory, and specifications, and torque tools and testers. Electrical and electronic fundamentals are reviewed extensively. Emphasis throughout the remainder of the course is on operation and maintenance of specific test sets.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 10 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74); in the upper-division baccalaureate category, 10 semester hours in electronics, and additional credit in electronics on the basis of institutional examination (3/74).

NV-1715-0172

P-3 AN/AAPA-125A INDICATOR INTERMEDIATE MAINTENANCE
(P-3 AN/AAPA-125A INDICATOR MAINTENANCE, NO. 48)

Course Number: C-102-3535.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 3 weeks (104 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train enlisted personnel with a knowledge of electronics and transmitter theory to operate, calibrate, align, and maintain an aircraft radio indicator display.

Instruction: Lectures and practical exercises in theory, electronics, and operation of the AN/AAPA-125A radar indicator, including low- and high-voltage power supplies, range gate generators, multivibrators, video amplifiers and mixers, indicator control circuits, sweep circuits, and servo systems.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1715-0173

INTERIOR COMMUNICATIONS (IC), CLASS A, PART II (INTERIOR COMMUNICATIONS EQUIPMENT)

Course Number: A-623-0011.
Location: IC Electricians, Class A School, Great Lakes, IL; IC Electricians, Class A School, San Diego, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 12/57-12/68.
Objectives: To provide enlisted personnel with a basic understanding of electricity and electronic principles.

Instruction: Lectures and laboratories in basic concepts of electricity, including circuit diagrams, symbols, familiarization with cables, resistors, capacitors, inductors, tubes and transformers; use of electrician's hand tools and soldering techniques; construction of simple circuits using bells and push buttons; basic electrical metering equipment, vacuum tube amplifiers, RC coupling, frequency response, ideal transformer coupling, push-pull amplifiers, and power amplifiers.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electricity and electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0174
AN/AVM-55(V) ARMAMENT STATION CONTROL UNIT TEST SET, INTERMEDIATE MAINTENANCE
Course Number: C-198-3781.
Location: Air Maintenance Training Detachment, Cecil Field, FL.
Length: 5 weeks (176 hours).
Exhibit Dates: 11/72-Present.
Objectives: To trainfle的魅力en maintenance personnel to operate, maintain, and repair AN/AVM-55(V) armament station control unit test sets.
Instruction: Lectures and practical exercises in armament station control test sets, test set peculiarities, and fault control and fault data display.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0175
AN/SRN-15 TACAN DISTANCE AZIMUTH MEASURING EQUIPMENT (SAME) MAINTENANCE (ELECTRONICS TECHNICIAN, CLASS C1)
Course Number: A-102-0124.
Location: Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/73-Present.
Objectives: To train electronics technicians to operate, align, and repair AN/SRN-15 TACAN azimuth-measuring equipment.
Instruction: Lectures and laboratories in circuit analysis and block diagrams of receivers and transmitters, logic sections, RF and control sections, power supplies and antennas, and utilization of test equipment for troubleshooting and repairing the specified equipment.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (11/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0176
RA-5C SEMI-AUTOMATIC TEST EQUIPMENT, PROGRAMMED SYSTEM ANALYZER AND COUNTERMEASURES TEST BENCH AN/ULM-1 INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Albany, GA.
Length: 5 weeks (280 hours).
Exhibit Dates: 12/70-Present.
Objectives: To train maintenance personnel who have backgrounds in advanced electronics to operate, maintain, and repair RA-5C aircraft electronics semi-automatic test equipment.
Instruction: Lectures in semiautomatic test equipment, programmer, and system analyzer, and countermeasure test bench operation, maintenance, and repair, including equipment introduction, control panel, power distribution, tape programmer, self-test procedures, signal relay assembly, decoder and matrix circuits, tape reader monitor logic, adapter control and programmed unit control signal generation, and various testing and maintenance routines and procedures.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics, laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0177
A-6 SHIP AND SHORE INERTIAL PLATFORM TEST STATION, INTERMEDIATE MAINTENANCE
Course Number: C-102-3762.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 3 weeks (120 hours).
Exhibit Dates: 7/73-Present.
Objectives: To train experienced electronics maintenance personnel to maintain and repair the platform-test station.
Instruction: Lectures in accelerometer theory, assembly, and operating; Litton gyroscope construction and operation; amplifiers, modulators, and demodulators associated with accelerometer theory of operation and power sources; elevation and roll test loops; four-gimbal platform operation; and test station overall operation and maintenance procedures.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0178
AN/ASQ-10 MAGNETIC ANOMALY DETECTOR INTERMEDIATE MAINTENANCE
(A/N)AN/ASQ-10A MAGNETIC ANOMALY DETECTING SYSTEMS IMPROVED MAINTENANCE
(P-3 AN/ASQ-10A MAGNETIC ANOMALY DETECTING SYSTEMS MAINTENANCE, NO. 2)
Course Number: C-102-3059.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Quantico Point, RI; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Key West, FL; Air Maintenance Training Detachment, North Island, CA.
Length: 3 weeks (80-104 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train enlisted personnel to maintain, calibrate, align, troubleshoot, and repair magnetic anomaly-detecting systems.
Instruction: Lectures in magnetic anomaly detector block diagrams, theory of operation, maintenance, calibration, alignment, troubleshooting, and repair, and subsystems, including power supplies, detecting head, magnetometer oscillator and amplifier, band-pass and power amplifier, test circuits, and error voltage controls.
Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1715-0179
GUN MAINTENANCE 5/54 CALIBER RAPID FIRE Mk 42
Course Number: J-041-0233; J-113-223.
Location: Fleet Anti-Air Warfare Training Center, Dam Neck, VA.
Length: 2 weeks (70 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train gunnery personnel to operate and maintain the 5/54 (RF) gun mount.
Instruction: Lectures and practical exercises in operation of 5/54 (RF) gun mount, safety precautions, gun loading system, tests and adjustments, corrective and preventive maintenance, and troubleshooting techniques.
Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1715-0180
5/54 GUN MOUNT Mk 42 Mod 79 DIFFERENCES
Course Number: A-113-0028.
Location: Service School Command, Great Lakes, IL.
Length: 2 weeks (80 hours).
Exhibit Dates: 3/74-Present.
Objectives: To train gunners' mates to maintain, calibrate, and operate 5/54 gun mounts.
Instruction: Lectures and practical exercises in system control circuits, lower accumulation systems, loaders and lower hoists, upper-gun loading systems, fuze setters, gun and elevation power drives, firing circuits, and gun mount controls.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0181
F-8 ARMAMENT SYSTEM ORGANIZATIONAL MAINTENANCE
Course Number: C-646-3851; C-646-12.
Location: Air Maintenance Training Detachment, Miramar, GA.
Length: 2 weeks (80 hours).
Exhibit Dates: 5/69-Present.
Objectives: To train fleet maintenance personnel to operate and maintain the F-8 armament system.

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Instruction: Lectures and practical exercises in the maintenance and testing of the F8H/J aircraft armament, including instruction in system components, the gunnery system, fuselage stores system, wing stores system, and associated equipment, corrosion control, and radiation hazards.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0182

ELECTRONICS TECHNICIAN, CLASS C, FBM TENDER NAVIGATION MAINTENANCE

Course Number: A-143-00238
Location: Guided Missiles School, Dam Neck, VA.
Length: 7 weeks (210 hours).
Exhibit Dates: 9/70-9/71.

Objectives: To train electronics technicians to maintain the submarine central navigation computer, the digital module test set, and the gear train test set.

Instruction: Lectures and practical exercises in the maintenance of the central navigation computer, the digital module test set, and the gear train test set including test equipment procedures, calibration and fault analysis, computer logic, circuit analysis, analog/digital converters, and magnetic tape storage units maintenance.

Credit Recommendation: In the vocational certificate category, 4 semester hours in digital computers, 1 in computer logic, 1 in circuit analysis, 2 in analog/digital converters, and 1 in magnetic tape storage units maintenance.

NV-1715-0183

F-8 ELECTRICAL, INSTRUMENTS AND STEABILIZATION SYSTEMS

Organizational Maintenance

Course Number: Not available.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 5 weeks (120 hours).
Exhibit Dates: 6/69-Present.

Objectives: To train electrical maintenance personnel to maintain selected airframe instruments and electrical and flight stabilization systems.

Instruction: Lectures and practical exercises in the maintenance of the F8AJ, including systems components and test equipment, electricity fundamentals, generator systems, power distribution, circuit analysis, fuel systems, and stabilization.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68).

NV-1715-0186

FIRE, CONTROL TECHNICIAN, CLASS B

Course Number: A-113-0015.
Location: Service Schools Command, Great Lakes, IL.
Length: 29 weeks (870 hours).
Exhibit Dates: 2/68-10/73.

Objectives: To train for the AN/FPS-43 fire control technicians to operate and maintain complex weapons guidance and control systems.

Instruction: Lectures and practical exercises in the maintenance of complex weapons guidance and control systems, including mathematics at the college algebra level, DC and AC circuits, basic electronic circuits, including vacuum tubes and transistors, communication circuits, industrial or control circuits, pulse and digital circuits, instrumentation, amplifiers, synchronizers, and alignment and test equipment.

Credit Recommendation: In the vocational certificate category, certificate in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68).

NV-1715-0188

ELECTRONICS TECHNICIAN, CLASS C, AIRCRAFT ELECTRONICS

Course Number: Not available.
Location: Electronics Technician, Class C School, Treasure Island, CA.
Length: 4 weeks (133 hours).
Exhibit Dates: 3/63-12/68.

Objectives: To train electronics technicians to maintain electronic equipment and systems utilizing microwave components and devices.

Instruction: Lectures and practical exercises in the maintenance of electronics equipment and systems using microwave components and devices, including basic transmission line theory, use of the Smith chart, transmission line measurements, microwave amplifiers and oscillators, antennas and antenna systems, measurement methods and test equipment, and circuit components.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (3/74).

NV-1715-0190

CLOSED CIRCUIT TV MAINTENANCE, CLASS C1

Location: Service School Command, Great Lakes, IL.
Length: Version 1: 18 weeks (363 hours); Version 2: 19 weeks (570 hours).
Exhibit Dates: 1/975-Present.

Objectives: To train communications technicians to operate, maintain, and repair closed-circuit television, and piloted-LSO landing aid television systems.

Instruction: Lectures and practical exercises in the maintenance and repair of black-and-white color, closed-circuit television, and piloted-LSO landing aid television systems, including circuit inputs, outputs, and changes of wave shapes; receiver fundamentals; cameras, video tape recor-
Credit Recommendation: Version 1: In the vocational certificate category, 8 semester hours in TV systems and 5 in TV systems laboratory (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in TV systems laboratory (9/77); in the vocational certificate category, 10 semester hours in electronic communications, 5 in electronic communications laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications, 2 in electronic communications laboratory (3/74); in the upper-division baccalaureate category, 3 semester hours as an elective in electronic communications (3/74).

**NV-1715-0190**

E-2A AN/ARC-80 Radio Set Intermediate Maintenance (E-2A Radio Set AN/ARC-80 Intermediate Maintenance)

**Course Number:** C-150-3477

**Location:** Maintenance Training Detachment, North Island, CA.

**Length:** 4-41 weeks (160-240 hours).

**Exhibit Dates:** 3/69-Present.

**Objectives:** To train fleet maintenance personnel to maintain the E-2A AN/ARC-80 radio set and associated equipment.

**Instruction:** Lectures and practical exercises in SSB transmission and receiver circuits; radio frequency amplifier, antenna coupler, and trailing-wire antenna units; operation and maintenance; amplifier control; high voltage circuits; control indicators; set control operation and maintenance; and AN/ASM 228 test bench and test procedures.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hour in electrical laboratory (3/74).

**NV-1715-0191**

AN/AOH-1 Recorder/Reproducer Intermediate Maintenance

**Course Number:** C-102-3534

**Location:** Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.

**Length:** 2 weeks (80 hours).

**Exhibit Dates:** 9/70-Present.

**Objectives:** To train intermediate maintenance personnel to operate, maintain, and modify the AN/AOH-1 recorder/ playback device.

**Instruction:** Lectures and practical exercises in basic tape recorder principles; head circuits; monitor and control circuits; power supply; FM, and direct-channel theory of operation; and precision plate assembly maintenance.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (3/74).

**NV-1715-0192**

EA-6B Course Attitude Data Transmitter Intermediate Maintenance (T-1073A) Course Attitude Data Transmitter Intermediate Maintenance

**Course Number:** C-602-3775

**Location:** Air Maintenance Training Detachment, Whidbey Island, WA.

**Length:** 2 weeks (72 hours).

**Exhibit Dates:** 12/72-Present.

**Objectives:** To train maintenance personnel to maintain and repair the EA-6B attitude data transmitter.

**Instruction:** Lectures and practical exercises in EA-6B attitude data transmitter maintenance and repair, including system equipment and analysis, calibration, alignment, testing, and troubleshooting procedures.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (3/74).

**NV-1715-0193**

AN/URN-20 TACAN Maintenance (Electronics Technician, Class C1)

**Course Number:** A-102-0034; A-102-0035

**Location:** Service Schools Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

**Length:** 5 weeks (150 hours).

**Exhibit Dates:** 3/69-Present.

**Objectives:** To train enlisted personnel to operate and maintain the AN/URN-20 radio receiver-transmitter.

**Instruction:** Lectures and practical exercises in AN/URN-20 radio receiver-transmitter familiarization and operation, and in technical maintenance, including receiver block diagram, test equipment operation, and logical troubleshooting procedures.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electronics and communications systems and 2 in electronics laboratory (11/77).

**NV-1715-0194**

Electronics Technician, Class C, AN/FSC-60, AN/FTA-15 Multichannel Voice Frequency Telegraph Terminal Equipment

**Course Number:** A-191-0040

**Location:** Service School Command, Great Lakes, IL.

**Length:** 4 weeks (120 hours).

**Exhibit Dates:** 11/72-7/74.

**Objectives:** To train enlisted personnel who have completed the electronic technician shipboard course to maintain a specific multiplex voice-telegraph system.

**Instruction:** Lectures and practical exercises in communications system and terminal fundamentals, transmitter and receiver fundamentals, system operation, and telephone and telegraph terminal devices maintenance.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in telephony, 1 in telephony laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronic communications (3/74).

**NV-1715-0195**

E-1B ARC-97 Radio Repeater System Intermediate Maintenance

**Course Number:** Not available.

**Location:** Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Norfolk, VA.

**Length:** 2 weeks (80 hours).

**Exhibit Dates:** 10/72-Present.

**Objectives:** To train maintenance personnel to operate and maintain the E-1B ARC-97 radio repeater set.

**Instruction:** Lectures and practical exercises in E-1B ARC-97 radio repeater operation and maintenance, including transistors and special-purpose tubes; component numbering system; theory of operation; and bench check, alignment, and troubleshooting procedures.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electronic communications, 1 in electronic communications laboratory (3/74).

**NV-1715-0196**

AN/ALQ Coutermeasures Set Intermediate Maintenance (AN/ALQ-81/100 Countermeasures Set Maintenance)

**Course Number:** C-102-3074

**Location:** Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Albany, GA; Air Maintenance Training Detachment, Ocean, VA; Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Miramar, CA.

**Length:** 6 weeks (240 hours).

**Exhibit Dates:** 8/67-Present.

**Objectives:** To train fleet maintenance personnel to operate, modify, and troubleshoot the AN/ALQ-100 and AN/ALQ-81/100 electronic countermeasures system.

**Instruction:** Lectures and practical exercises in AN/ALQ-100 and AN/ALQ-81/100 electronic countermeasures set operation, modification, and troubleshooting, including low-band block diagram, video assembly, modulator, and program assembly, high-band block diagram, video control, modulator, driver SMT assembly, and destruct unit and hydraulic package; systems power control and power supplies; and systems maintenance and testing procedures.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electronic communications, 1 in electronic communications laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronic communications (3/74).
NV-1715-0197

TACAN MAINTENANCE, CLASS C1
(ELECTRONICS TECHNICIAN, CLASS C, TACAN MAINTENANCE)

Course Number: A-102-0044; A-102-0045
Location: Electronics Technician, Class C School, Treasure Island, CA; Electronics Technician, Class C School, Great Lakes, IL.
Length: 7 weeks (210 hours).
Exhibit Dates: 3/63-Present.

Objectives: To train electronics technicians to operate and maintain TACAN navigation equipment.

Instruction: Lectures and practical exercises in TACAN navigation system equipment components circuit analysis, including beacon electronics, test equipment, antennas, control circuits, and radio frequency monitors; and 3-M system maintenance and material management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in microwave and pulse electronics laboratory (9/77).

NV-1715-0198

EA-6A AN/ALQ-76/86 ECM SYSTEMS
ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3942.
Location: Air Maintenance Training Detachment, Cherry Point, NC.
Length: 5 weeks (200 hours).
Exhibit Dates: 3/73-Present.

Objectives: To train maintenance personnel to maintain a specific ECM system.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/ALQ-76/86 ECM system, including components, troubleshooting, and use of associated test equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0199

AN/SPS-13 RADAR TRAINER CLASS C
MAINTENANCE

Course Number: A-104-0048; A-104-0049.
Location: Electronics Technician, Class C School, Norfolk, VA; Electronics Technician, Class C School, San Diego, CA.
Length: 4 weeks (120 hours).
Exhibit Dates: 6/75-Present.

Objectives: To train electronics technicians to operate and maintain specific radar trainer systems.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/SPS-13 radar trainer, including use of associated test equipment, components of the system, signal simulation, and system troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0200

A-7 AN/APN-190 DOPPLER RADAR
NAVIGATION SYSTEM INTERMEDIATE
MAINTENANCE

Course Number: C-102-3765.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 6 weeks (240 hours).
Exhibit Dates: 8/71-Present.

Objectives: To train enlisted personnel to maintain and operate a specific radar system.

Instruction: Lectures and practical exercises in the maintenance of the AN/APN-190 Doppler radar navigation system, including block diagram analysis and receiver, transmitter, antenna, and control indicator analysis.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0201

ELECTRONICS TECHNICIAN, CLASS C, AN/ SPN-12 OMEGA RECEIVING SET MAINTENANCE

Course Number: A-102-0077; A-102-0086.
Location: Electronics Technician, Class C School, Norfolk, VA; Electronics Technician, Class C School, San Diego, CA.
Length: 2 weeks (60 hours).

Objectives: To train electronics technicians to operate and maintain the AN/SPN-12 Omega receiving set and associated test equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/SPN-12 Omega receiving set and associated test equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0203

FIRE CONTROL SYSTEM TECHNICIAN Mk.88
CONVERSION (MOD 0 TO MOD 1)

Course Number: A-121-0178.
Location: Guided Missiles School, Dam Neck, VA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/74-7/74.

Objectives: To train Mk 88 fire control system technicians to operate and maintain a specific fire control system and associated nontactical equipment.

Instruction: Lectures and practical exercises in the theory, operation, and maintenance of the Mk 88 fire control system (Mod 1), including changes introduced from the Mod 0 system; digital and analog circuitry associated with the digital read-in and control and display subsystems, and the digital fire control test equipment; and rate compensation electronics.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0204

F-A AN/ARN-52 TACAN INTERMEDIATE
MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel to maintain and operate the AN/ARN-52 TACAN system at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of the AN/ARN-52 TACAN system, including specialized treatment of the specific equipment components and circuitry.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NY-1715-0205

FIRE CONTROL SYSTEM TECHNICIAN Mk.88
MOD I TENDER MAINTENANCE

Course Number: A-121-0190.
Location: Guided Missiles School, Dam Neck, VA.
Length: 14 weeks (220 hours).
Exhibit Dates: 1/71-Present.

Objectives: To train enlisted personnel to operate and maintain the electromechanical teleprinter, the computer tape reader, and the optical alignment group of the Fleet Ballistic Missile Weapons System.

Instruction: Lectures and practical exercises in the maintenance of the electromechanical teleprinter, the computer tape reader, and the optical alignment group, including computer logic and instruction in theory, calibration, components, operational principles, electro-servo components, and diagnosis of malfunctions.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computers (3/74); in the lower-division baccalaureate/associate degree category, credit in computer laboratory on the basis of institutional examination (3/74).

NV-1715-0206

F8 AN/APQ-83A RADAR INTERMEDIATE
MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Jacksonville, FL.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/70-Present.

Objectives: To train enlisted personnel to operate and maintain the AN/APQ-83A radar set and associated equipment.

Instruction: Lectures and practical exercises in the maintenance of the AN/APQ-83A radar set, including amplifiers, circuits, transmitters and power supply, range trackers, antennas, systems, and test set alignment, and radiation hazards. Areas are covered in general terms with relation to the specific equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0207

GUN FIRE CONTROL SYSTEM Mk.56
MAINTENANCE

Course Number: J-113-0116; J-113-1161; J-113-1162; K-113-2072.
Location: Fleet Combat Direction Systems Training Center, Dam Neck, VA; Fleet Combat Direction Systems Training Center, Newport, RI; Fleet Combat Direction Systems Training Center, San Diego, CA.
Length: 3 weeks (105 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train enlisted personnel to operate and maintain the Mk-37 GFCS ground fire control system.

Instruction: Lectures and practical exercises in the functional operation to block diagram level of a Fleet ballistic missile fire control system on the 598 or 608 class SSBN submarine. Topics include meters, oscilloscope and hand tools to perform routine preventive maintenance, equipment alignment and repair, safety procedures, troubleshooting techniques to recognize and interpret malfunctions, basic corrective maintenance, instrumental equipment, repair and replacement of faulty modules.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0211
FIRE CONTROL SYSTEM TECHNICIAN Mk 80
(FIRE CONTROL SYSTEM TECHNICIAN Mk 80 REPLACEMENT)
Course Number: A-121-0244; A-121-0015
Course Number: A-121-0093; A-121-0095
Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Guided Missiles School, Dam Neck, VA
Length: 6 weeks (360 hours).
Exhibit Dates: 3/74-12/73.

Objectives: To train fire control technicians to operate, maintain, and repair the AN/SPG-83 radar system.

Instruction: Lectures and practical exercises to familiarize with the AN/SPG-83 radar system, including instruction in electronics and circuitry used in radar and television; mathematical analysis of circuits; theory, construction, and operation of the designation indicator and associated equipment; testing and calibration, alignment data computation, and adjustment and repair.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0212
FIRE CONTROL TECHNICIAN CLASS C,
TARGET DESIGNATION SYSTEM (TDS) Mk 5
Course Number: A-121-0095; A-121-0093
Location: Service Schools Command, Great Lakes, IL; All Versions: Service Schools Command, Bainbridge, MD.
Length: 6 weeks (180 hours).
Exhibit Dates: 3/74-12/73.

Objectives: To train fire control technicians to operate and maintain the AN/SPG-83 radar set group, including theory of operation of the power supply circuit; receiver and transmitter circuits; use of oscilloscope, range tracker, antenna, and various computers; and alignment and troubleshooting of the radar and associated equipment using pertinent test equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity or electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0213
FIRE CONTROL TECHNICIAN CLASS C,
TARGET DESIGNATION SYSTEM Mk 6
Course Number: Not available.
Location: Service Schools Command, Great Lakes, IL.
Length: 6 weeks (180 hours).
Exhibit Dates: 2/68-12/73.

Objectives: To train fire control technicians to operate, maintain, and repair the Mk 6-target designation system.

Instruction: Lectures and practical exercises in the maintenance of a specific target designation system, including instruction in electronics and circuitry used in radar and television, mathematical analysis of circuits; theory, construction, and operation of the designation indicator and associated equipment; testing and calibration, alignment data computation, and adjustment and repair.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0214
F/F AN/SPG-83B RADAR INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 6 weeks (180 hours).
Exhibit Dates: 4/67-12/73.

Objectives: To train maintenance personnel to maintain and repair the AN/SPG-83B radar system at an intermediate level.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/SPG-83B radar set group, including theory of operation of the power supply circuit; receiver and transmitter circuits; use of oscilloscope, range tracker, antenna, and various computers; and alignment and troubleshooting of the radar and associated equipment using pertinent test equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (3/74).

NV-1715-0215
ADVANCED AIRBORNE ELINT EVALUATOR
Course Number: E-2D-074.
Location: Fleet Airborne Electronics Training Unit, Pacific, San Diego, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 10/72-12/73.

Objectives: To train officers to evaluate, locate, and analyze threat and non-threat radar emitters and to apply the concepts of electronic surveillance measures (ESM).

Instruction: Lectures and practical exercises in concepts, intercept procedures, and applications of electronic surveillance systems, including review of electronic war-
COURSE EXHIBITS

Harper principles, review of radar and ESM equipment fundamentals, aircraft and equipment capabilities and limitations, methods and procedures of data collection, and the evaluation of mission results.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1715-0216

FIRE CONTROL TECHNICIAN CLASS C, GUN FIRE CONTROL SYSTEM Mk 56 AND TARGET DESIGNATION SYSTEM Mk 5

Course Number: Not available.

Location: Service School Command, Great Lakes, IL; Service Schools Command, Bainbridge, MD.

Length: 20 weeks (600 hours).

Exhibit Dates: 2/68-Present.

Objectives: To train fire control technicians to operate, maintain, and repair the Mk 56 gun fire control system and the Mk 5 target designation system.

Instruction: Lectures and practical exercises in the operation and maintenance of the integrated Mk 56 gun fire control system and the Mk 5 target designation system, including theory, components, and operation of the specific equipment; operation of gyroscopes; operation of analog computers; computation of alignment data; and mathematical analysis of electronic circuits for power supplies, radar, and antennas.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical/electronics laboratory on the basis of institutional examination (12/68).

NV-1715-0217

GROUND CONTROLLED APPROACH ELECTRONICS MAINTENANCE (RADAR SET AN/FPS-36) CLASS C

Course Number: C-103-2016.

Location: Air Technical Training Center, Glyncor, GA.


Objectives: To train electronics technicians to operate and maintain an AN/FPS-36 radar installation.

Instruction: Lectures and practical exercises in the operation and maintenance of a complete AN/FPS-36 radar installation, including the antenna system, transmitter and receiver group, remoting equipment, indicator, quadradar sitting, control systems, amplifiers, power requirements, generators, radars, positioning and runway survey, and testing and adjustment.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in electrical testing and maintenance (6/75). Version 2: In the vocational certificate category, 3 semester hours in circuit analysis and troubleshooting (3/74). In the lower-division baccalaureate/associate degree category, 1 semester hour in circuit analysis and troubleshooting (3/74).

NV-1715-0218

FIRE CONTROL TECHNICIAN CLASS C, GUN FIRE CONTROL SYSTEM (GFCS) Mk 56


Location: Service School Command, Bainbridge, MD; Service School Command, Great Lakes, IL.


Objectives: To train fire control technicians to operate, maintain, and repair the Mk 56 gun fire control systems equipment.

Instruction: All Versions: Lectures and practical exercises in the maintenance of the Mk 56 gun fire control system and associated equipment, including components, gyroscopes, testing, calibration, adjustment, and repair of systems equipment; and mechanical, electrical, electronic, and electromechanical computer, circuitry for associated system computers.

Credit Recommendation: Version 1: In the vocational certificate category, 6 semester hours in electronic systems maintenance (9/77), in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (6/75). Version 2: Topics include mathematical analysis of circuitry.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in electronic systems maintenance (9/77), in the lower-division baccalaureate/associate degree category, 1 semester hour in circuitry and 1 in electrical laboratory (6/75).

NV-1715-0219

FIRE CONTROL TECHNICIAN CLASS C, GUN FIRE CONTROL SYSTEM (GFCS) Mk 68

Course Number: A-113-0016.

Location: Service School Command, Great Lakes, IL.

Length: 23-25 weeks (690-781 hours).

Exhibit Dates: 2/68-Present.

Objectives: To train fire control technicians to operate, maintain, and repair the Mk 68 gun fire control system.

Instruction: Lectures and practical exercises in the operation and maintenance of the Mk 37 gun fire control system and the Mk 5 target designation system.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic systems maintenance and computer equi- pment, including mathematical analysis of electronic circuits for power supplies, radars, antennas, gyroscopic principles; calibration; casualty analysis and repair; and components.

Credit Recommendation: In the vocational certificate category, 3 semester hours in radar systems maintenance (9/77).

NV-1715-0221

RA-SC AN/AAS-21 I NFRARED DETECTING SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3747.

Location: Air Technical Training Command, Detachment, Albany, GA.

Length: 6 weeks (240 hours).

Exhibit Dates: 1/69-Present.

Objectives: To train personnel to operate and maintain the AN/AAS-21 infrared detecting set.

Instruction: Lectures and practical exercises in infrared fundamentals, Stefan-Boltzmann law, IR receiver and recorder theory and design; video-synchronizer spike detector circuits operation and purpose; recorder data flow, filters and optics circuits, self-test and power control circuits; receiver video-synchronization filter circuits; recorder section design and theory of video and film speed circuits; and laboratory techniques for alignment and troubleshooting.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (3/74) in the lower-division baccalaureate/associate degree category, credit in electricity or electronics on the basis of institutional examination (3/74).
Detachment.

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andspecial.'Circuits;and

system
cises

on the-basis of institutional examination (3/

74).

Detachment, El Toro, CA.

RF-4B AN/APN-159 RAlDAR ALTImETER

MAINTEnANCE

Course Number: C-102-3837; C-102-199.

Location: Air Maintenance Training

Detachment, El Toro, CA.

Length: 2 -5 weeks (80 hours).

Exhibit Dates: 3/30/74-Present.

Objectives: To train maintenance person-

nel to service, maintain, and troubleshoot the

AN/A&N-159 radar altimeter system.

Instruction: Lectures and practical exer-
cises in AN/A&N-159 radar altimeter

system theory of operation, receiving, con-

verting, and special circuits; and maintenance,

troubleshooting, bench check-out, trouble

analysis, alignment, and safety precautions.

Credit Recommendation: In the voca-
tional certificate category, credit in elec-

tricity or electronics on the basis of institu-
tional examination (3/74); in the lower-
division baccalaureate/associate - degree
category, credit in electricity or electronics

on the basis of institutional examination (3/

74).

Detachment. El Toro. CA.

NV-1715-0214

RA-SC ELECTRONIC RECONNAISSANCE

ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3743; C-102-294.

Location: Air Maintenance Training

Detachment, Albany, GA.

Length: 2-3 weeks (80-120 hours).

Exhibit Dates: 4/69-Present.

Objectives: To train maintenance personnel
to analyze, maintain, and troubleshoot the

AN/AAS-21 infrared detecting set, AN/APD-7 side-looking radar (SLR), and AN/AAY-1 signal data converter group systems.

Instruction: Lectures and practical exer-
cises in infrared detecting set, side-looking

radar, and signal data converter group sys-
tems, maintenance, and troubleshooting, including signal data con-

verter group, data converter, and data

translator systems introduction, accessories

and test equipment, video amplifiers, and

opics system description, infrared detect-
ing set, including infrared principles, major

components, and operation and testing

procedures; side-looking radar set

block-diagram analysis, antenna system,

cooling and pressurization, fuel circuitry,

and operation and troubleshooting pro-
cedures.

Credit Recommendation: In the voca-
tional certificate category, credit in elec-

tricity or electronics on the basis of institu-
tional examination (3/74); in the lower-
division baccalaureate/associate degree
category, credit in electricity or electronics

on the basis of institutional examination (3/

74).

NV-1715-0224

RA-SC ELECTRONIC RECONNAISSANCE

MAINTENANCE

Course Number: C-102-3743; C-102-294.

Location: Air Maintenance Training

Detachment, Key West, FL.

Length: 2 weeks (160 hours).

Exhibit Dates: 3/30/74-Present.

Objectives: To train maintenance per-
nel to service, maintain, and troubleshoot the

AN/AAS-21 infrared detecting set, side-

looking radar, and signal data converter group systems.

Instruction: Lectures in infrared systems

introduction, system functional block diag-

ram, optical and cooler systems, self-test

and correction circuits, and circuit analysis

of video, sweep, and servo, and film drive

circuits, and bench checks, alignment, and

troubleshooting of infrared, reconnaissance

mapping system.

Credit Recommendation: In the voca-
tional certificate category, 2 semester

hours in electronics laboratory (3/74).

NV-1715-0226

AN/ASB-1A RADAR SUB-SYSTEM

INTERMEDIATE MAINTENANCE

Course Number: C-111-3702.

Location: Air Maintenance Training

Detachment, Alamnda, CA.

Length: 3 weeks (120 hours).

Exhibit Dates: 3/73-Present.

Objectives: To train maintenance per-
nel to service, and repair the AN/ASB-1A

radar sub-system.

Instruction: Lectures in radar system

components, system structures, and operation;

radar presentations, gyroscopic assembly,

antennas, block diagram analysis of tunable

transmitter, sweep, transmitting, R.F., and

tuning receiver section RF and AFC net-

works, IF and video circuits, servo control

amplifiers and display circuits; power

supply, antenna, and microprocessor circuits

maintenance, and radar system preventive

and corrective maintenance procedures.

Credit Recommendation: In the voca-
tional certificate category, credit in elec-

tricity or electronics on the basis of institu-
tional examination (3/74); in the lower-
division baccalaureate/associate degree
category, credit in electricity and electronics

on the basis of institutional examination (3/

74).

NV-1715-0227

SH-3A/D AUTOMATIC NAVIGATION SYSTEM

(AN/AYK-2) INTERMEDIATE MAINTENANCE

(Sh-3 AN/AYK-2 NAVIGATION SYSTEM

INTERMEDIATE MAINTENANCE)

Course Number: C-102-3397.

Location: Air Maintenance Training

Detachment, Key West, FL.

Length: 4 weeks (152-160 hours).

Exhibit Dates: 9/67-Present.

Objectives: To train naval maintenance

personnel with backgrounds in electronics

to operate, calibrate, test, align, and main-

tain the SH-3 (SH-3A/D) automatic naviga-

tion system.

Instruction: All versions: Lectures and

practical exercises in automatic navigation

system introduction, SH-3: AN/AYK-2 computer

group theory and maintenance; DA-176SA

display plotting board group theory of

operation and maintenance, and operation

and maintenance procedures for memory

and indicator groups. Version 2: Instruction

includes synchro fundamentals and compu-
ter inputs.

Credit Recommendation: No credit

because of the military nature of the course

(3/74).

NV-1715-0228

RF-4B AN/ASG-46/56 NAviGATIONAL

COMPUTer AND INErtial NAVigation SYSTEM

INTERMEDIATE MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training

Detachment, El Toro, CA.

Length: 6 weeks (240 hours).

Exhibit Dates: 1/89-Present.

Objectives: To train maintenance personnel
to service, maintain, and repair

AN/ASG-46/56 navigational computer and

inertial navigation systems.

Instruction: Lectures and laboratories in

AN/ASG-46 systems and operating procedures;

introduction to trigonometry and resolved

talent; test bench procedures, system

hook-up, and component test procedures;

theory of operation and purpose of naviga-

tional computers; platform test sets, gyro

tests, and bias procedures; and theory of

operation and purpose of inertial naviga-

tion systems.

Credit Recommendation: In the voca-
tional certificate category, credit in elec-

tricity and electronics on the basis of institu-
tional examination (3/74); in the lower-
division baccalaureate/associate degree
category, credit in electricity and electronics

on the basis of institutional examination (3/

74).

NV-1715-0229

TRANSCIEVER AN/URC-32 MAINTENANCE

TRAINING

(DURALAYS)

Course Number: F-101-013.

Location: Submarine School, Groton,

CT.

Length: 3 weeks (90 hours).

Exhibit Dates: 8/67-12/68.

Objectives: To train enlisted personnel to
operate, maintain, and repair AN/URC-32

transceiver sets.

Instruction: Lectures and laboratories in

an introduction to single-sideband theory;

power supplies and distribution; functional

block diagram of SSB transmit circuits,
audio and control units, sideband genera-

tors, and power amplifiers; tuning and AM

transmitting circuit analysis; CW transmit-

and receive mode of operation; FSK trans-

mit-and receive mode analysis; and trans-

ceiver malfunctions.

Credit Recommendation: In the voca-
tional certificate category, 2 semester hours

in electronics (3/74); in the lower-
division baccalaureate/associate degree
category, credit in electronics on the basis of institutional examination (3/74).

NV-1715-0230

CARRIER AIR TRAFFIC CONTROL CENTER

EQUIPMENT MAINTENANCE AN/SPN-41

Course Number: C-103-2023.

Location: Air Technical Training Center,

Glynco, GA.

Length: 7 weeks (280 hours).

Exhibit Dates: 6/72-Present.

Objectives: To train electronics techni-
cians to operate and maintain the AN/SPN-

41 radar transmitting set.
COURSE EXHIBITS

INSTRUCTION: Lectures and practical exercises in AN/SPN-41 radar transmitting set operation and maintenance, including system block analysis, power distribution, system alignment and troubleshooting procedures.

CREDIT RECOMMENDATION: In the vocational certificate category, credit in electronics or electricity on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity or electronics on the basis of institutional examination (3/74); in the upper-division baccalaureate category, credit in electricity or electronics on the basis of institutional examination (3/74).

NV-1715-0233
AN/ASB-7 RADAR SUB-SYSTEM MAINTENANCE
(Course Number: C-103-2024)
Location: Carrier Air Traffic Control Center, Equipment Maintenance, Radar Set AN/SPN-43, Class C
Length: 6 weeks (240 hours).
Exhibit Dates: 1/26-3/22 Present.
Objectives: To train electronics technicians to operate and maintain AN/ASB-7 radar sets.

INSTRUCTION: Lectures and practical exercises in AN/ASB-7 radar subsystem theory of operation and maintenance procedures, including circuit analysis, troubleshooting, and repair.

CREDIT RECOMMENDATION: Insufficient data for evaluation (3/74).

NV-1715-0236
SH-3A AN/APN-130 DOPPLER NAVIGATION NAVIGATION MAINTENANCE
(Course Number: A-193-0262, F-193-086)
Location: Submarine Training Center, Charleston, SC
Length: 2 weeks (80 hours).
Exhibit Dates: 11/2/20-12/9/20.
Objectives: To train electronics technicians to operate and maintain SH-3A Doppler navigation systems.

INSTRUCTION: Lectures and practical exercises in introduction to radar sets, safety procedures, and troubleshooting procedures.

CREDIT RECOMMENDATION: Insufficient data for evaluation (3/74).

NV-1715-0237
SH-3A AN/ASB-7 DOPPLER NAVIGATION NAVIGATION MAINTENANCE
(Course Number: Not available)
Location: Air Maintenance Training Detachment, Key West, FL
Length: 5 weeks (160 hours).
Exhibit Dates: 1/26-3/22 Present.
Objectives: To train electronics technicians to maintain and operate AN/ASB-7 radar sets.

INSTRUCTION: Lectures and practical exercises in introduction to radar sets, safety procedures, and troubleshooting procedures.

CREDIT RECOMMENDATION: Insufficient data for evaluation (3/74).
NV-1715-0228
RA-5C SEMI-AUTOMATIC TEST EQUIPMENT, PROGRAMMER AND SYSTEM ANALYZER INTERMEDIATE MAINTENANCE

Course Number: C-175-5741
Location: Air Maintenance Training Detachment, San Antonio, FL
Exhibit Dates: 1/76-7/76

Objectives: To train maintenance personnel to repair the RA-5C semi-automatic test equipment.

Instruction: Lectures and laboratory in the operation of the RA-5C test equipment.

Credit Recommendation: In the vocational certificate category, credit in electrical engineering laboratory on the basis of institutional examination (3/74). Credit in the lower-division baccalaureate/associate degree category, credit in electrical engineering laboratory on the basis of institutional examination (3/74).

NV-1715-0230
MK 68 GUN DIRECTOR AND AN/SPG-53F RADAR MAINTENANCE

Course Number: A-110-0472
Location: Service School Command, Great Lakes, IL
Exhibit Dates: 1/76-12/76

Objective: To train students in radar operation and maintenance on specific radar equipment using appropriate test sets.

Instruction: In the operation and maintenance of the MK 68 gun director system and the AN/SPG-53F radar system.

Credit Recommendation: In the vocational certificate category, 3 semester hours in radar systems laboratory (9/77).

NV-1715-0240
RF/43 AN/ASQ-90 AIRCRAFT DATA ANNOTATION SYSTEM MAINTENANCE

Course Number: C-105-3418
Location: Air Maintenance (Training Detachment, El Toro, CA.)
Exhibit Dates: 1/75-11/75

Objectives: To train maintenance personnel to repair the AN/ASQ-90 airborne data annotation system.

Instruction: Lectures on the operation and maintenance of the AN/ASQ-90 system.

Credit Recommendation: In the vocational certificate category, credit in electrical engineering laboratory on the basis of institutional examination (3/74). Credit in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional examination (3/74).

NV-1715-0241
3 AN/ASA-13A NAVIGATION SYSTEM INTERMEDIATE MAINTENANCE

Course Number: Not available
Location: Air Maintenance Training Detachment, Key West, FL
Exhibit Dates: 11/69-11/70

Objectives: To train maintenance personnel to repair and maintain the AN/ASA-13A navigation system at the intermediate maintenance level.

Instruction: Lectures and practical exercises in the repair of the AN/ASA-13A navigation system.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1715-0242
SSBN NAVIGATION DATA ASSIMILATION COMPUTER MOD 2 MOD 4 STABILIZATION DATA COMPUTER MK 2 MOD 1

Course Number: A-191-0416
Location: Guided Missiles School, Dam Neck VA
Exhibit Dates: 1/76-12/76

Objective: To train electronics technicians in the operation and maintenance of the SSBN navigation data assimilation computer.

Instruction: Lectures and practical exercises in the operation and maintenance of the SSBN navigation data assimilation computer.

Credit Recommendation: In the vocational certificate category, credit in electrical engineering systems and control on the basis of institutional examination (3/74). Credit in electronics on the basis of institutional examination (3/74).

NV-1715-0243
S-2D/E AN/AKT-19A MULTI-CHANNEL JEZEBEL RELAY SYSTEM INTERMEDIATE MAINTENANCE

Course Number: C-102-3611
Location: Air Maintenance Training Detachment, North Island, CA
Exhibit Dates: 6/70-6/70

Objective: To train maintenance personnel to repair and maintain the AN/AKT-19A multi-channel Jezebel relay system.

Instruction: Lectures and laboratories in the repair and maintenance of the AN/AKT-19A multi-channel Jezebel relay system.

Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1715-0244
S-2D/AN/ARC-94 HF RECEIVER-TRANSMITTER SYSTEM MAINTENANCE

Course Number: Not available
Location: Air Maintenance Training Detachment, North Island, CA
Exhibit Dates: 1/76-12/76

Objective: To train maintenance personnel to repair and maintain the AN/ARC-94 high-frequency receiver-transmitter system.

Instruction: Lectures and laboratories in the repair and maintenance of the AN/ARC-94 high-frequency receiver-transmitter system.

Credit Recommendation: In the vocational certificate category, credit in electrical engineering systems and control on the basis of institutional examination (3/74). Credit in electronics on the basis of institutional examination (3/74).

NV-1715-0245
GUIDANCE SYSTEM, MK 3 MOD 0, OPERATION AND MAINTENANCE

Course Number: F-121-0611
Location: Submarine Training Center, Charleston, SC
Exhibit Dates: 1/76-12/76

Objective: To train maintenance personnel in the operation and maintenance of the MK 3 guidance system.

Instruction: Lectures and laboratories in the repair and maintenance of the MK 3 guidance system.

Credit Recommendation: In the vocational certificate category, credit in electrical engineering systems and control on the basis of institutional examination (3/74). Credit in electronics on the basis of institutional examination (3/74).
COURSE EXHIBITS

Objectives: To train enlisted personnel to operate and maintain the Mk 3 Mod 0 guidance system.

Institution: Lectures and practical exercises in organization, content, and use of Mk 3 Mod 0 guidance system, including operational description of each subsystem, including circuit analysis and logic flow; special tools and test equipment function details; and system maintenance procedures.

Credit Recommendation: In the vocational certificate category, credit in electronics or electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0246
RA-5C ELECTRONIC RECONNAISSANCE LINE MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 5 weeks (200 hours).
Exhibit Dates: 5/67-Present.

Objectives: To train maintenance personnel to operate, maintain, and service the AN/APD-7 side-looking radar and the AN/ALQ-61 passive electronics countermeasures set.

Instruction: Lectures and practical exercises in line maintenance of AN/APD-7 side-looking radar, and in the repair of passive electronics countermeasures systems, including antenna, receiver, encoders, decoder, programmer, tape recorder, and power distribution systems.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0247
AN/ARN-81 LORAN INTERMEDIATE MAINTENANCE

Course Number: C-100-3043.
Location: Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Patuxent River, MD.
Length: 3-4 weeks (120-160 hours).

Objectives: To train maintenance personnel to maintain and service the AN/ARN-81 long-range (Loran) navigation system.

Instruction: Lectures and laboratories in Loran, system theory, timing circuits, display circuits, troubleshooting, and alignment.

Credit Recommendation: In the vocational certificate category, credit in electronics or electronics laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics or electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0248
AN/APD-7 SIDE LOOKING RADAR INTERMEDIATE MAINTENANCE

Course Number: C-100-3747.
Location: Air Maintenance Training Detachment, Albany, GA; Air Maintenance Training Detachment, Sanford, FL.
Length: 5 weeks (200-240 hours).
Exhibit Dates: 1/68-9/74.

Objectives: To train fleet maintenance personnel to troubleshoot, repair, and maintain AN/APD-7 side-looking radar systems.

Instruction: Lectures and practical exercises in operation and maintenance of transmitters, receivers, recorder systems, and associated systems and circuits of the side-looking radar system, and use of dual-trace oscilloscopes, multimeters, and associated test equipment.

Credit Recommendation: In the vocational certificate category, credit in electronics or electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0249
AN/VCC-2, AN/VRC-46 AND AN/SRA-60 TELEPHONE-TELEGRAPH COMMUNICATION SYSTEM

Course Number: A-101-0034.
Length: 3 weeks (90 hours).

Exhibit Dates: 2/74-9/74.

Objectives: To train enlisted personnel to maintain and operate AN/VCC-2, AN/VRC-46, and AN/SRA-60 telephone equipment.

Instruction: Lectures and laboratories in maintenance, including principles of operation, troubleshooting and maintenance, and associated test equipment.

Credit Recommendation: In the vocational certificate category, credit in electronics or electronics laboratory (3/74).

NV-1715-0250
TRANSMITTER AN/WRT-4 COMBINED MAINTENANCE

Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Ballistic Missile Submarine Training Center, Charleston, SC.
Length: 4-5 weeks (120-150 hours).

Objectives: To train enlisted personnel to operate and maintain AN/WRT-4 communications equipment.

Instruction: Lectures and practical exercises in AN/WRT-4 communications equipment maintenance, including principles of operation, troubleshooting and maintenance techniques. Troubleshooting of vacuum tube and transistor subsystems is taken to the component level.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic engineering technology laboratory (9/74).

NV-1715-0251
AN/WRA-3 COMBINED MAINTENANCE

Course Number: A-101-0105; L-101-029.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 4-5 weeks (120-150 hours).

Objectives: To train maintenance personnel to operate and maintain AN/WRA-3 communications equipment.

Instruction: Lectures and practical exercises in AN/WRA-3 operation and maintenance, including troubleshooting and maintenance procedures. Equipment serviced is vacuum tube or tube/transistor hybrid. Extensive troubleshooting techniques are taught using noise generators, oscilloscopes, VTVM, frequency counters and frequency generators to repair the equipment to the component level.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic engineering technology laboratory (9/74).

NV-1715-0252
CONALOG MAINTENANCE NORDEN (ENLISTED)

Course Number: A-623-0032; F-623-025.
Location: Submarine School, Groton, CT.
Length: 6 weeks (180 hours).
Exhibit Dates: 4/68-9/74.

Objectives: To train enlisted personnel to maintain and calibrate the CONALOG system and associated test and auxiliary equipment.

Instruction: Lectures and practical exercises in the maintenance of the CONALOG system and associated test and auxiliary equipment, including block diagram of closed-circuit television systems, introduction to AN/USP-105A oscilloscopes, primary power distribution, and low-voltage power supply, circuit analysis of display generator systems, and circuits, system overload, video processor circuits, and course-computing and control circuits; roll, trim, and servo data flow; depth computation and control circuits; and alarm circuits data flow.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics or electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics or electronics laboratory (3/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in electronics or electronics laboratory on the basis of institutional examination (3/74).
NV-1715-0253
CONALOG (NORDEN) REFRESHER
MAINTENANCE AND TROUBLESHOOTING
Course Number: C-138-3111
Location: Fleet Submarine Training Facility, Pearl Harbor, HI
Length: 4 weeks (160 hours)
Exhibit Dates: 1/68-Present
Objectives: To train interior communications electricians to operate and repair the NOR-CONALOG system on FBM submarines.

Instruction: Lectures and practical exercises in the operation and repair of the NOR-CONALOG system, including the use of the Tektronix 545 B oscilloscope, function of the John Fluke meter, circuit tracing, operation and alignment of the AN/ALOG system, and troubleshooting procedures. Course designed to update previous training and skills.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0254
E-2A AN/ACQ-2 AND AN/ACQ-2A DATA TERMINAL INTERMEDIATE MAINTENANCE
Course Number: C-150-3478
Location: Air Maintenance Training Detachment, North Island, CA
Length: 9 weeks (360 hours)
Exhibit Dates: 1/68-Present
Objectives: To train maintenance personnel to operate and troubleshoot the AN/ACQ-2 and the AN/ACQ-2A data terminal system.

Instruction: Lectures and practical exercises in the maintenance of the AN/ACQ-2 data terminal system and the AN/ACQ-2A data terminal system, including data terminal system familiarization, logic circuitization, Doppler and synchronization circuits, code recognition circuits, control circuits, oscilloscope, counter, signal generator, wave analyzer, display and maintenance of special tested terminals.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0255
F-4B CNI ORGANIZATIONAL MAINTENANCE
Course Number: C-102-3814
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC
Length: 4 weeks (160 hours)
Exhibit Dates: 2/73-Present
Objectives: To train maintenance personnel to operate and troubleshoot the F-4B CNI systems at the organizational maintenance level.

Instruction: Lectures and practical exercises in the AN/APA-157 radar set group, including organization, safety, communications systems, instrumentation, power supply, UHF and transceiver, navigation system, TACAN system, navigational computer, identification of unknown aircraft, IFF system, targeting and fire control system, computer, and data link and instrumentation systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional examination (3/74).

NV-1715-0256
P-3C SENSOR STATION ONE AND TWO (ACOUSTIC SYSTEMS TECHNICIAN) ORGANIZATION MAINTENANCE
Course Number: C-102-3590
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA
Length: 4-5 weeks (160-200 hours)
Exhibit Dates: 6/71-Present
Objectives: To train enlisted personnel to maintain the acoustic systems of the P-3C aircraft.

Instruction: Lectures and practical exercises in the maintenance and troubleshooting of the acoustic systems of the P-3C aircraft, including operation and components of the sonobuoy receiver system, the bathythermograph recorder, the TD-900/74 computer-receiver, the AN/AOQ-4 sound recorder-reproducer system, and the sonobuoy system. Courses in the maintenance of various components, including radar, fire control, digital memory, computer, various operational modes, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the organizational level of maintenance.

NV-1715-0257
F-4B AN/APA-157 RADAR SET GROUP INTERMEDIATE MAINTENANCE
Course Number: Not available
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC
Length: 3 weeks (120 hours)
Exhibit Dates: 1/68-Present
Objectives: To train maintenance personnel to maintain the AN/APA-157 radar set group at the intermediate level.

Instruction: Lectures and practical exercises in the AN/APA-157 radar set group, including organizational maintenance and missile-lining circuits, functional analysis of test equipment,Mismatch filter group, various component functions, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate, category, credit in electrical laboratory on the basis of institutional examination (3/74).

NV-1715-0258
S-2G AN/AQA-7(V)3 SONAR COMPUTER RECORDER GROUP ORGANIZATION MAINTENANCE
Course Number: C-102-3623
Location: Air Maintenance Training Detachment, Quonset Point, RI
Length: 2 weeks (80 hours)
Exhibit Dates: 11/72-Present
Objectives: To train fleet maintenance personnel to maintain and repair the S-2G AN/AQA-7(V)3 sonar computer-recorder group system.

Instruction: Lectures and practical exercises in the maintenance of the S-2G AN/AQA-7(V)3 sonar computer-recorder group system, including history of sonobuoy system, principles of operation, and repair and test signal data recorder: bearing, frequency controls, digital memory, computer, various operational modes, and troubleshooting.

Credit Recommendation: In the vocational certificate category, credit in electrical or electronic laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical or electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0259
TALOS WEAPON DIRECTOR SYSTEM Mk 6 (WDE Mk 2) CLASS C
Course Number: A-122-0036
Location: Guided Missiles School, Dam Neck, VA; Schools Command, Mare Island, CA
Length: 24 weeks (720 hours)
Exhibit Dates: 1/68-Present
Objectives: To train enlisted personnel to maintain and repair the Talos weapon director system.

Instruction: Lectures and practical exercises in the maintenance of the Talos weapon director system, including radar signal generator, basic digital computer concepts, programming techniques, number systems, and binary functions; MK 128 computer function, input functions, and buffer-unit; power distribution and display equipment; special radar circuits, power supplies, multivibrators, differential amplifiers; radar signal simulator; symbol generator; tracking, elevation, and target director consoles; Talos and Tartar launcher and assignment consoles; and auxiliary equipment.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical and electronic laboratory on the basis of institutional examination (3/74).

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Instruction: I-Certification and practical exercises in the maintenance and troubleshoot-

Objectives: To train fire control technicians to maintain, operate, troubleshoot, and align AN/APO-126 radar sets, utilizing intermediate test sets.

Instruction: Lectures and practical exercises in the operation of the AN/APO-126 radar set, including power supply programmers, transmitter/modulators, antenna/receivers, navigation computers, pulse generators, fault locators, indicator-multiple displays, and test sets, and operation of antenna boresight test sets.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics or electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity or electronics on the basis of institutional examination (3/74); in the upper-division baccalaureate category, credit in electricity or electronics on the basis of institutional examination (3/74).

NV-1715-0261

SONAR RECEIVING SET AN/BQG-4 PUFS

Course Number: A-300-0226; K-130-1008

Location: Fleet Anti-Submarine Warfare School, San Diego, CA

Length: 18 weeks (655-665 hours)

Exhibit Dates: 6/99-Present

Objective: To train sonar (submarine) technicians to operate, adjust, and maintain the AN/BQG-4 sonar receiver.

Instruction: Lectures and practical exercises in the maintenance and troubleshooting of AN/BQG-4 sonar receiver equipment, including generation and synchronization of system timing, timing, hydrophone amplifier subsystem, delay line time compressors, relock amplifiers, high-speed counters, input buffer and shift register, post integrator and timing circuits, information display units, pulse generators, range and bearing computers, and power distribution.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic troubleshooting (8/77).
diagrams, altimeters, Doppler radar theory, weapons release systems, malfunction isolation and associated test equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (3/74); in the lower-division baccalaureate category, 1 semester hour in electronics (3/74); in the upper-division baccalaureate category, credit in electronics on the basis of institutional examination (3/74).

NV-1715-0271
Mk 68 DIRECTOR AND COMPUTER Mk 47 MODES 8 AND 11 DIFFERENCE MAINTENANCE
Course Number: A-113-0073.
Location: Service School Command, Great Lakes, IL.
Length: 15 weeks (450 hours).
Exhibit Dates: 11/75-Present.
Objectives: To train students in the operation, preventive maintenance, and repair of a gun fire control system.

Instruction: Instruction in the safe operation of the Director and the Director drive system, and in troubleshooting the Director control, computers, stable elements, and system interface.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer science and 6 in electromechanical drive systems (9/77).

NV-1715-0272
A-6 WEAPONS SYSTEM SPECIALIST ORGANIZATIONAL MAINTENANCE

A-6A WEAPONS SYSTEM SPECIALIST
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: Version 1: 12 weeks (480 hours). Version 2: 10 weeks (400 hours).
Objectives: To train enlisted personnel to perform preflight, postflight, and operational checks on A-6 and A-6A integrated weapons systems and to isolate faults through debriefing techniques and cockpit operation of electronics systems.

Instruction: Lectures and laboratories in integrated weapons systems, electronic countermeasures and aircraft armament systems, DIANE air navigational systems, ballistics computers, radar systems (servo and track), and systems operation and troubleshooting.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0277
NAVAL TACTICAL DATA SYSTEMS MAINTENANCE

Course Number: Not available.
Location: Tactical Data Systems Maintenance School, Mare Island, CA.
Length: 20 weeks (588 hours).
Exhibit Dates: 11/65-12/68.
Objectives: To train enlisted personnel to maintain the USQ-20 Naval Tactical Data System (NTDS).

Instruction: Lectures and practical exercises in the maintenance of the USQ-20 Naval Tactical Data System (NTDS), including digital computer functions, AN/SY data display group, specific channeling equipment, high capacity communication system, introduction to keyset complex, USQ-20 components and input/output timing chain, various console operations, and introduction to NTDS A link.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0278
FUNDAMENTAL ANALYSIS TECHNIQUES (P-3)

Course Number: E-210-55.
Location: Fleet Airborne Electronics Training Unit, Pacific, Moffett Field, CA.
Length: 20 weeks (600 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train transitioning VP antisubmarine warfare operators to analyze Jezebel equipment at a basic level.

Instruction: Lectures and practical exercises in the analysis of Jezebel equipment, including basic procedures, intelligence, and interpretation.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0279
BRIGHT RADAR INDICATOR TOWER EQUIPMENT MAINTENANCE, CLASS C

Course Number: Not available.
Location: Air Technical Training Center, Glyco, GA.
Length: 4 weeks (160 hours).
Exhibit Dates: 7/71-Present.
Objectives: To train electronics technicians to operate and maintain television indicator equipment.

Instruction: Lectures and practical exercises in a descriptive treatment of television principles, cameras, and display units; plan-
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position indicators, and review of solid-state devices.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical technology (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in television technology, and credit in electronics laboratory on the basis of institutional examination (4/74).

NV-1715-0277

ANS/SOS-23, 213A, 23B, 23C MAINTENANCE AND ASPECT

Course Number: Not available.
Location: Fleet Sonar School, Key West, FL, Fleet Sonar School, San Diego, CA.
Length: 12 weeks (480 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train enlisted personnel to maintain and repair the AN/SPS-23 sonar set.

Instruction: Lectures and practical exercises in the maintenance of the AN/SPS-23 sonar set, including systems components and power supply, circuitry, generator operation, introductory transistor principles, testing and treatment of applicable electronic circuits (vaccum tube); and, beam receiver and control circuits.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity or electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics laboratory (4/74); in the upper-division baccalaureate degree category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0278

TALOS RADAR AN/SPW-2B, CLASS C

Course Number: Not available.
Location: Naval Schools Command, Mare Island, CA.
Length: 16 weeks (480 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train fire control technicians and engineers to maintain and operate the Talos radar system.

Instruction: Lectures and practical exercises in the maintenance of the Talos radar system, including system components, data flow and maintenance procedures, range data and pulse transmitter output instruction, and power distribution and mode switching circuits for specific equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in advanced circuits laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate degree category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0279

A-3 RELATED AVIONICS SYSTEM (AT/AO) ORGANIZATIONAL MAINTENANCE

(A-3 RELATED AVIONICS SYSTEM (AT/AO) ORGANIZATIONAL LEVEL MAINTENANCE)

Course Number: C102-3706.
Location: Air Maintenance Training Detachment, Alaskan, CA.
Length: 2-3 weeks (80-120 hours).
Exhibit Dates: 11/72-Present.

Objectives: To train maintenance personnel to maintain specific aircraft electronic systems.

Instruction: Lectures, demonstrations, and practical exercises in A-3 (AT/AO) aircraft familiarization, avionics system organization maintenance; general-purpose line test equipment, operating procedures and safety precautions; radar systems components maintenance and troubleshooting and various radio sets and navigation systems components, operation, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0280

A-4C/E/F AN/APG-53A RADAR INTERMEDIATE MAINTENANCE

(A-4C/E FAN/APG-53A RADAR MAINTENANCE)

Course Number: Not available.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Beaufort, SC; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 3-4 weeks (120-160 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to maintain and service the AN/APG-53A radar.

Instruction: Lectures and practical exercises in AN/APG-53A radar maintenance, including system familiarization, components operation, power supply, transmitter, RF plumbing and duplex theory of operation, and receiver, transmitter, indicator, power supply, and altitude computer alignment and troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0281

A3B AN/ASB-1A SYSTEM MAINTENANCE (LESS COMPUTER CP-66A)

Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 3 weeks (240 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train maintenance personnel to maintain the AN/ASB-1A bomb director set on an intermediate level.

Instruction: Lectures and practical exercises in the maintenance of AN/ASB-1A director sets, including operating procedures, stabilization subsystem assembly and functions, optical subsystems analysis, tunable radar system function and circuits, emergency and SLAM system, and malfunction and error analysis.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0282

TALOS RADAR AN/SPG-49B, CLASS C

Course Number: A-104-0086.
Location: Naval Schools Command, Mare Island, CA.
Length: 24 weeks (720 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train fire control technicians to maintain a specific radar set.

Instruction: Lectures and practical exercises in the maintenance of the Talos radar AN/SPG-49B, including operation, data circuit, circuit information, test methods and equipment, and various component maintenance procedures.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional examination (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate degree category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0283

AN/SPG-53A RADAR MAINTENANCE

Course Number: K-113-2027.
Location: Fleet Training Center, San Diego, CA.
Length: 2 weeks (660 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train fire control technicians and designated strikers to maintain the AN/SPG-53A radar.

Instruction: Lectures and practical exercises in the maintenance of the AN/SPG-53A radar, including power distribution, synchronizing system, transmitting system, acquisition system, ranging and angle error systems, and adjustment and troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0284

A0TODIN/DSTE/DSSCS/MODE V MAINTENANCE, CLASS C1

Course Number: A-101-0056.
Location: Service School Command, Great Lakes, IL.
Length: 11 weeks (420 hours).
Exhibit Dates: 5/78-Present.
Objectives: To train selected personnel to maintain the AUTODIN system.

Instruction: Instruction covers the operation and maintenance of the AUTODIN system including peripheral equipment, logic elements, memory control, input-output, paper tape readers and punches, card readers, data terminals, and line printers.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer systems and 5 in computer equipment laboratory (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer hardware (9/77).

NV-1715-0285

AN/ALO-108 COUNTERMEASURE SET INTERMEDIATE MAINTENANCE

Course Number: C-102-8076.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA.
Length: 3 weeks (120 hours).
Exhibit Dates: 2/73-Present.
Objectives: To train fleet maintenance personnel to maintain and repair the AN/ALO-108 countermeasures set at the intermediate level.
Instruction: Lectures and practical exercises in the maintenance of the AN/ALQ-108 countermeasures set, including basic system concepts, system component functions and descriptions, synchronization and code generation, timing, various subsystems, control indicator and power supplies, and testing and repair procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV/1715-0286
ALL WEATHER CARRIER LANDING SYSTEM EQUIPMENT MAINTENANCE, AN/SPN-42, CLASS A (AUTOMATIC CARRIER LANDING SYSTEM EQUIPMENT MAINTENANCE AN/SPN-42 (ET), CLASS C)

Course Number: C-103-2013.

Location: Air Technical Training Center, Glyncor, GA; Air Technical Training Center, Memphis, TN.

Length: 11-15 weeks (440-600 hours).

Exhibit Dates: 6/69-Present.

Credit Recommendation: To train electronic technicians to operate and maintain the AN/SPN-42 all-weather carrier-landing system, including understanding computer programs.

Instruction: Lectures and laboratories in a review of computer technology, introduction, basic concepts, and power control of the all-weather carrier-landing systems, radar subsystems, data stabilization techniques, control and monitoring equipment, input and output buffers, Naval Tactical Data System (NTDS) buffers, data link monitors, and system analysis, and maintenance procedures.

Credit Recommendation: In the vocational certificate category, credit in computer technology and electrical laboratory on the basis of institutional examination (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (4/74); in the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of the AN/ARN-52 navigational TACAN radio system, including theory of operation, bearing-measuring circuitry, power supply and distribution, and components; range-measuring circuitry, antenna selector circuits, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV/1715-0288
A-4 TACTICAL AIR NAVIGATION (TACAN) AN/ARN-52

Course Number: Not available.

Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/63-Present.

Objectives: To train maintenance personnel to maintain and operate the AN/ARN-52 navigational TACAN radio system at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of the AN/ARN-52 navigational TACAN radio system, including theory of operation, bearing-measuring circuitry, power supply and distribution, components, range-measuring circuitry, antenna selector circuits, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV/1715-0289
AVIATION ELECTRONICS TECHNICIAN, CLASS A

Course Number: Not available.

Location: Air Technical Training Center, Memphis, TN.

Length: 9 weeks (352 hours).

Exhibit Dates: 7/67-12/68.

Objectives: To train enlisted personnel with a knowledge of avionics fundamentals to operate and maintain aircraft electronics systems.

Instruction: Lectures and practical exercises in the maintenance of a wide variety of aircraft electronics systems, including theory of operation; block-diagram analysis; tube and solid-state electronic circuit fundamentals; electronic concepts required for the maintenance of airborne search radar and identification, navigation, and communication equipment; TACAN theory and application; navigational computer fundamentals; and auxiliary systems.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics systems (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (4/74).

NV/1715-0290
AN/ARS-14 MAINTENANCE (ENLISTED)

Course Number: A-130-0014.

Location: Fleet and Mine Warfare Training Center, Charleston, SC.

Length: 5 weeks (150 hours).

Exhibit Dates: 3/73-Present.

Objectives: To train enlisted personnel to maintain and operate the AN/ARS-14 mine classifying-detecting set.

Instruction: Lectures and practical exercises in the maintenance of the AN/ARS-14 mine classifying-detecting set, including primary power distribution, test equipment, hoist assembly and function, servo system, various timing circuits, and alignment and maintenance of systems and subsystems.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV/1715-0291
TERRIRER RADAR AN/SPQ-5A

Course Number: Not available.

Location: Service Schools Command, Great Lakes, IL.

Length: 24 weeks (720 hours).

Exhibit Dates: 1/68-Present.

Objectives: To train enlisted personnel to maintain a specific radar system.

Instruction: Lectures and practical exercises in the maintenance of the Terrier weaponsystem and associated radar equipment, including system components, operation, data flow of track radar, capture and guidance radar, and primary and low-voltage power; special test equipment, receiver and transmitter circuits, analysis and operation of various circuits, operation of beacon receivers and missile loops, and tests and maintenance.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional examination (4/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV/1715-0292
AIR TRAFFIC CONTROL EQUIPMENT MAINTENANCE

Course Number: C-103-2025.

Location: Air Technical Training Center, Glyncor, GA.

Length: 2 weeks (80 hours).

Exhibit Dates: 9/72-Present.

Objectives: To train officers and senior enlisted personnel to perform as air traffic control managers and to supervise the maintenance and installation of air traffic control systems.

Instruction: Lectures in the management of air traffic control systems associated with air traffic control facilities, including equipment operation; radar, radio, and navigational principles; records, supply, and safety maintenance policies; and system sitting and flight inspections.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aerospace technology (4/74).

NV/1715-0293
CARRIER AIR TRAFFIC CONTROL CENTER EQUIPMENT MAINTENANCE (AN/SPN-6), CLASS C

Course Number: Not available.

Location: Air Technical Training Center, Norfolk, VA.

Length: 3 weeks (104 hours).

Exhibit Dates: 6/69-Present.

Objectives: To train electronic technicians to operate the AN/SPN-6 radar system.

Instruction: Lectures and practical exercises in the maintenance of the AN/SPN-6 radar system, including operation, components, transmitter and receiver circuits, antenna stabilization, system standards and
NV-1715-0294
A-4 AN/AJB-3/3A ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3723.
Location: Air/Aviation Training Detachment, Beaufort, SC; Air/Av Maintenance Training Detachment, El Toro, CA; Air/Av Maintenance Training Detachment, Beaufort, SC.
Length: 2 weeks (80 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train maintenance personnel to maintain and operate the AN/AJB-3/3A and the remote standby attitude-indicating systems.
Instruction: Lectures and practical exercises in the maintenance of the AN/AJB-3/3A and the remote standby attitude-indicating systems, including theory of operation, internal computer systems, components, supplies, system analysis, testing procedures and troubleshooting, and the attitude indicator system components, operation, and testing.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0295
AVIATION ELECTRONICS TECHNICIAN (ELECTRONICS, GRADE C), CLASS C

Course Number: Not available.
Location: Air/Aviation Training Center, Memphis, TN.
Length: 21 weeks (840 hours).
Exhibit Dates: 1/71-Present.
Objectives: To train enlisted Navy and Marine Corps personnel to qualify as avionics electronics technicians.
Instruction: All Versions: Lectures and laboratory exercises in electronic systems theory and operation, including radar search, identification, navigation, and EMC systems, communications, and control systems; extensive test and equipment maintenance and troubleshooting.
Version 1: Instruction includes reduced hours because of the limited nature of electronic systems. Version 2: Instruction includes more extensive training in electronic systems.
Credit Recommendation: Version 1: In the vocational certificate category, 10 semester hours in aviation electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in advanced electronics, 3 in electronics laboratory (3/74). Version 2: In the vocational certificate category, 10 semester hours in aviation electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 3 in electronic circuits (12/68); in the upper-division baccalaureate category, 4 semester hours in radar systems (3/74).

NV-1715-0296
ELECTRONIC WARFARE TECHNICIAN, CLASS C, RADAR DATA RECORDER-REPRODUCER AN/SPH-2 AND VIDEO RECORDER-REPRODUCER 15-E-27 MAINTENANCE

Course Number: A-162-0101.
Location: Naval Schools Command, San Francisco, CA.
Length: 5 weeks (240 hours).
Exhibit Dates: 1/72-Present.
Objectives: To train electronic warfare technicians to maintain and repair the AN/SPH-2 radar data recorder-reproducer and associated equipment, and the 15-E-27 video recorder-reproducer.
Instruction: Lectures and practical exercises in the maintenance of the AN/SPH-2 radar data recorder-reproducer and associated attachments, and the 15-E-27 video recorder-reproducer, including digital logic review, search radar, displays, and distribution systems, operation procedures, video and data channel recording and reproduction, power distribution, and magnetic tape recorder operation.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0297
A-6 PILOTS HORIZONTAL DISPLAY, DIRECT VIEW RADAR INDICATOR AND ASSOCIATED TEST SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3774.
Location: Air/Av Maintenance Training Detachment, Whidbey Island, WA.
Length: 2 weeks (80 hours).
Exhibit Dates: 9/71-Present.
Objectives: To train maintenance personnel to maintain the AN/APQ-92 search radar system.
Instruction: Lectures and practical exercises in AN/APQ-92 search radar system maintenance, including azimuth/elevation range indicator, azimuth/angle indicator, and PHD/DVRI test set test operation, including functions, circuit analysis, block diagram analysis, purpose, and equipment breakdown; detailed test, maintenance, shop, and check-out procedures; and equipment safety and repair procedures.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0298
ELECTRONIC TECHNICIAN, CLASS C, AN/SPS-37, 37A RADAR SETS AND AN/SPA-63 COUNTERMEASURES RECEIVING GROUP (ELECTRONIC TECHNICIAN, CLASS C, AN/SPS-37/37A RADAR SET AND AN/SPA-63 COUNTERMEASURES RECEIVING GROUP)

Course Number: A-104-0051.
Location: All Versions: Service Schools Command, San Diego, CA. Version 2: Fleet Training Center, Norfolk, VA.
Length: 9 weeks (270 hours).
Exhibit Dates: 6/71-Present.
Objectives: To train electronics technicians who have knowledge of radar to maintain the AN/SPS-37, 37A radar systems and the AN/SPA-63 countermeasures receiving group.
Instruction: Lectures and practical exercises in the maintenance of the AN/SPS-37, 37A radar systems and the AN/SPA-63 countermeasures receiving group, including components, transmitter and receiving channel circuits, ancillary equipment (antennas, range indicator, oscilloscopes), and systems operation, troubleshooting, technical maintenance, and repair.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0299
AN/APN-187 DVARS INTERMEDIATE MAINTENANCE

Course Number: C-102-3574.
Location: Air/Av Maintenance Training Detachment, Moffett Field, CA.
Length: 5 weeks (200 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train fleet maintenance personnel to maintain the AN/APN-187 DVARS radar system.
Instruction: Lectures and practical exercises in the maintenance of the AN/APN-187 DVARS radar system (consisting of a specific receiver-transmitter-antenna, a computer frequency tracker, and a control indicator), including operation, circuit analysis, alignment, and test procedures, and use of special test equipment and repair techniques.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0300
AN/SQS-26 AXR ELECTRONIC MAINTENANCE

Course Number: J-130-0835.
Location: Fleet Sonar School, Key West, FL.
Length: 24 weeks (960 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train enlisted personnel to test and maintain the AN/SQS-26 sonar system.
Instruction: Lectures and practical exercises in maintenance and testing procedures for the AN/SQS-26 sonar system; subsystems, operation, auxiliary equipment, components, signal processing, range and bearing, and set maintenance. Includes brief presentation of underwater navigation principles and brief introduction to binary arithmetic and logic symbols.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0301
60/400 Hz POWER CONVERTER MAINTENANCE, CLASS C1

Course Number: A-652-0077.
Location: Service School Command, Great Lakes, IL.
Length: 2 weeks (80 hours).
Exhibit Dates: 7/77-Present.
Objectives: To train personnel in the operation and maintenance of the 60/400 Hz power converter.
Instruction: Lectures and practical exercises in troubleshooting and repair of faulty electrical circuits and the closing system.
Credit Recommendation: In the lower-division baccalaureate/associate degree
 NV-1715-0302
A-6 AN/AQ-112 TRACK RADAR AND ASSOCIATED TEST EQUIPMENT
INTERMEDIATE MAINTENANCE
Course Number: C-104-3761.
Location: Air Maintenance Training Detachment, Norfolk, VA.
Length: 10 weeks (400 hours).
Exhibit Dates: 2/68-3/68.
Objectives: To train enlisted personnel to maintain AN/ASQ-1 radar equipment and associated test equipment.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0303
AN/BOQ-4 SONAR MAINTENANCE
Course Number: F-130-010.
Location: Submarine School, Groton, CT.
Length: 4 weeks (120 hours).
Exhibit Dates: 6/69-1/70.
Objectives: To train sonar technicians to maintain AN/BOQ-4 series sonar systems.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0304
AN/SPS-48 RADAR SET
Course Number: None.
Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Murray Island, CA.
Length: 31 weeks (930 hours).
Exhibit Dates: 12/69-4/70.
Objectives: To provide enlisted personnel with advanced training in the operation and maintenance of AN/SPS-48 sets.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0305
ELECTRONICS TECHNICIAN, CLASS C, AN/SPS-R RADAR MAINTENANCE
Course Number: Not available.
Location: Electronic Technician, Class C School, Treasure Island, CA.
Length: 5 weeks (150 hours).
Exhibit Dates: 10/66-12/68.
Objectives: To train television personnel to operate and maintain AN/SPS-8 radar systems and associated test equipment.

Credit Recommendation: In the vocational certificate category, credit in electronic laboratory on the basis of institutional examination (4/74).

NV-1715-0306
AN/SPG-50 MAINTENANCE
Course Number: K-113-2026.
Location: Fleet Training Center, San Diego, CA.
Length: 2 weeks (60 hours).
Exhibit Dates: 10/72-1/73.
Objectives: To train fire control technicians and directors to maintain and repair AN/SPG-50 radar sets.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0307
AN/BOQ-3A SONAR MAINTENANCE
Course Number: F-130-016.
Location: Submarine School, Groton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/72-1/73.
Objectives: To train enlisted personnel with a background in transistor theory to maintain AN/BOQ-3A sonar systems.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0308
F-4J WEAPON SYSTEM SPECIALIST
ORGANIZATIONAL MAINTENANCE
Course Number: C-112-3810.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 9 weeks (360 hours).
Exhibit Dates: 11/72-1/73.
Objectives: To train maintenance personnel to maintain the AN/AWG-10 missile control system.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0309
F-4B/J KY-532A/ASQ IFF TRANSPONDER
INTERMEDIATE MAINTENANCE
Course Number: C-112-23.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC.
Length: 2 weeks (80 hours).
Exhibit Dates: 3/70-5/70.
Objectives: To train enlisted personnel to maintain and repair the KY-532A/ASQ IFF transponder at the intermediate level.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0310
ELECTRONICS TECHNICIAN, AN/SPA-34 INDICATOR GROUP, CLASS C
Course Number: A-104-0016; A-104-0018.
Location: Naval School, San Diego, CA; Naval School, Norfolk, VA.
Length: 2 weeks (60 hours).
Exhibit Dates: 1/70-9/70.
Objectives: To train enlisted personnel who have completed training in basic radar to maintain the AN/SPA-34 indicator group.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0311
EA-6B COMMUNICATIONS, NAVIGATION AND RADAR SYSTEM ORGANIZATIONAL MAINTENANCE
Course Number: C-112-3943.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 6 weeks (240 hours).
Exhibit Dates: 3/73-4/73.
Objectives: To train fleet maintenance personnel to maintain the AN/AWG-10 missile control system.

Credit Recommendation: No credit because of the limited technical nature of the course.

Navy 1-189
COURSE EXHIBITS

Objectives: To train fleet maintenance personnel who have backgrounds in electronics to maintain communications, navigation, and radar equipment. 

Instruction: Lectures and practical exercises in the maintenance of communication, navigation, and radar equipment, including the operation, troubleshooting, and repair of AN/SQR-14 system, search radar components, and functions, vehicle display indicator group analysis, and systems troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0312

1. RADAR AN/BPS-12, 13, 14 COMBINED MAINTENANCE
   AN/BPS-13 RADAR MAINTENANCE
   AN/BPS-13, 14 RADAR SYSTEM MAINTENANCE
   AN/BPS-13, 14 RADAR SYSTEM MAINTENANCE

   Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Submarine School, New London, CT; Fleet Ballistic Missile Submarine Training Center, Charleston, SC.
   Length: 3 weeks (90 hours).
   Exhibit Dates: Version 1: 5/73-Present.
   Version 2: 1/70-4/73.

   Topics: To provide the theory and skills to perform operational and maintenance procedures on Naval radar systems.

   Instruction: Version 1: Topics cover basic radar principles at the quantitative and block diagram levels, including sweep generators, PPI amplifiers, video marker strobes, CRTs, and synchronizers, and fault isolation and maintenance procedures. Version 2: Lectures and practical exercises in AN/BPS-12, 13, and 14 radar systems operation and preventive and corrective maintenance, including system theory of operation, echo box, frequency power meter, and range calibrator operation, and maneuvering board operation for computations.

   Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (4/74).

   NV-1715-0315

   TARGET DESIGNATION SYSTEM MK 5
   SHIPBOARD MAINTENANCE
   COURSE NUMBER: J-113-0129; J-113-1291
   LOCATION: Fleet Anti-Air Warfare Training Center, Dam Neck, VA.
   Length: 2 weeks (70 hours).
   Exhibit Dates: 10/72-Present.
   Objectives: To train fire control technicians to test, adjust, and maintain the MK 5 target designation system.

   Instruction: Lectures and practical exercises in MK 5 target designation system maintenance, including system power distribution and power supplies, multivibrators, servo loops, timing and deflection circuits, pulse generator, and amplifiers.

   Credit Recommendation: In the vocational certificate category, 1 semester hour in computer science (4/74).

   NV-1715-0316

   SUBMARINE RADIOMAN ELECTRICITY AND ELECTRONICS
   COURSE NUMBER: A-111-0053
   LOCATION: Submarine School, Groton, CT.
   Length: 16 weeks (480 hours).
   Exhibit Dates: 11/70-Present.

   Objectives: To train enlisted personnel to become submarine radio technicians.

   Instruction: Lectures and laboratories in electrical and electronic theory, basic and advanced transistor theory, basic arithmetic and algebra; physics, elementary computer principles, various instruments and testers operation; hosing procedures; and elementary circuits, resonance, vacuum tubes, amplifiers, and transistor operation.

   Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (4/74); in the upper-division baccalaureate category, 3 semester hours in electronics (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electronics (4/74).

   NV-1715-0317

   1. RADIOMAN, CLASS B
   2. RADIOMAN, CLASS B
   (CLASS B, RADIOMAN)

   COURSE NUMBER: A-201-0019.
   LOCATION: Service Schools Command, San Diego, CA; Service Schools Command, Bainbridge, MD.
   Length: Version 1: 30-37 weeks (900-1110 hours).
   Version 2: 5/73-Present.

   Objectives: To train radiomen in technician-level electricity and electronics and in management skills.

   Instruction: Lectures and practical exercises in basic electricity and electronics, basic transistor theory and applications, troubleshooting a practical communications superheterodyne receiver, test equipment operation and special circuits, various transmitters and receivers equipment operation and troubleshooting, radio teletypewriter and frequency shift keyer, and converter equipment operation and troubleshooting, and electronics administration.

   Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74); in the upper-division baccalaureate category, 3 semester hours in electronics laboratory (3/74). Version 2: In the vocational certificate category, 12 semester hours in electronics or electrodynamics (3/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (12/68); in the upper-division baccalaureate category, 6 semester hours in electricity and electronics for non-engineering students, 2 in electronics laboratory for engineering students (3/74).

   NV-1715-0318

   E-2A COMPUTER INDICATOR (CI) SEMI-AUTOMATIC CHECK-OUT EQUIPMENT (SACE) OPERATION AND MAINTENANCE
   COURSE NUMBER: C-150-3479.
   LOCATION: Air Maintenance Training Detachment, North Island, CA.
   Length: Version 1: 18 weeks (640 hours).
   Version 2: 1/72-Present.

   Objectives: To train enlisted personnel who have backgrounds in digital and transistor fundamentals to operate and troubleshoot the computer indicator test console.

   Instruction: Lectures and practical exercises in computer indicator test console
opera-tion and maintenance, including logic circuits, interconnection of logic elements and troubleshooting, shipment console operation, components, and maintenance, and logic testing procedures.

Credit Recommendation: Version 1: In the vocational certificate category, 5 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (3/74).

NV-1715-0319
INTEGRATED ANNOUNCING SYSTEM AN/WIC-2 COMBINED MAINTENANCE
Course Number: A-623-0051; F-623-014
Location: Submarine School, New London, CT; Fleet Ballistic Missile Submarine Training Center, Charleston, SC; Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2-3 weeks (60-90 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train maintenance personnel to operate, troubleshoot, and repair shipboard interior communication equipment.

Instruction: Lectures in shipboard interior communications equipment operation, troubleshooting, and repair, including block-diagram analysis; circuit theory; components description; alarm, generator circuitry and test panel; maintenance and material management system; electrical safety precautions; power supply, generation, and distribution systems; and color code and circuit tree construction.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (9/77).

NV-1715-0320
SONAR AN/SQS-54B/5KR-4 MAINTENANCE
(SONAR AN/SQS-54B ORGANIZATIONAL MAINTENANCE)
(AN/SQS-54B AND AN/SKR-4 (LAVA) MAINTENANCE)
(LAVA SQS-54 MAINTENANCE)
Course Number: A-130-0109; K-130-1060.
Location: Fleet Anti-Submarine Warfare Training Center, San Diego, CA; Fleet Training Center, Norfolk, VA; Location: Great Lakes, IL.
Length: 2-3 weeks (70-94 hours).
Exhibit Dates: 7/72-Present.
Objectives: To train technicians to maintain data links, telemetric receiving sets, and SQS-54 equipment.

Instruction: Lectures and practical exercises in systems operation and maintenance, modular makeup of telemetric equipment, cabling and troubleshooting procedures, and the operation and maintenance of spectrum analyzers.

Credit Recommendation: In the vocational certificate category, 1 semester hour in advanced instrumentation (8/77).

NV-1715-0321
SPECIAL TECHNOLOGY (ENLISTED)
Course Number: F-000-014.
Location: Submarine School, Groton, CT.
Length: 6 weeks (180 hours).
Exhibit Dates: 12/69-Present.
Objectives: To provide submarine radiomen and sonarmen with training in electronic fundamentals.

Instruction: Lectures and laboratories in DC and AC electrical networks, vacuum tubes, amplifiers, transmitters and receivers, and transmitter electronics.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics for non-engineering majors (3/74).

NV-1715-0332
P-3 SYNCHROPHASER/TRUE AIRSPEED COMPUTER/SIGNAL LIGHTS CONTROL INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 7 weeks (60 hours).
Exhibit Dates: 12/74-Present.
Objectives: To train fleet maintenance personnel to maintain P-3 synchrophasers, true airspeed computers, and signal lights controls at the intermediate maintenance level.

Instruction: Lectures and practical exercises in normal operation of systems components, operation of special test equipment, operation of synchroscopes, and waveform analysis.

Credit Recommendation: In the vocational certificate category, 1 semester hour in computer maintenance (3/74).

NV-1715-0323
E-2A INERTIAL NAVIGATION SYSTEM SEMI-AUTOMATIC CHECK-OUT EQUIPMENT AND ENCODER TEST CONSOLE OPERATION AND MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/68-Present.
Objectives: To provide avionics personnel with training in the operation, circuitry, and maintenance of inertial navigation systems adapters and encoder test consoles.

Instruction: Lectures and laboratories in test console familiarization, inertial navigation hardware, encoders and servos, and programming and maintenance procedures.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0324
P-3 AN/ASQ-42 NAVIGATIONAL COMPUTER SET ORGANIZATIONAL LEVEL MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 6 weeks (240 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to diagnose, troubleshoot, maintain, and service P-3 navigational computer sets.

Instruction: Lectures and laboratories in gyroscopic theory and assembly, basic block diagram analysis and signal flow, electronic circuitry analysis, navigational computers and related components, signal data converters and related components, power supplies, and maintenance and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0325
AN/FRT-83, 84 AND 85 RADIO TRANSMITTER MAINTENANCE, CLASS C1
Course Number: A-101-0052.
Location: Service School Command, Great Lakes, IL.
Length: 10 weeks (500 hours).
Exhibit Dates: 3/76-Present.
Objectives: To train personnel to maintain, operate and adjust the AN/FRT-83, 84, 85 radio transmitter series.

Instruction: Areas of instruction include the use of the oscilloscope, harmonic analyzer, RF generators, and other equipment to troubleshoot specific radio/transmitting equipment, servo-amplifiers and associated relay systems.

Credit Recommendation: In the vocational certificate category, 5 semester hours in radio electronics and 2 in radio laboratory (9/77), in the lower-division baccalaureate/associate degree category, 3 semester hours in radio electronics (9/77).

NV-1715-0326
AN/ASA-13A NAVIGATIONAL COMPUTER GROUP INTERMEDIATE MAINTENANCE (UH-2A/AN/ASA-13A NAVIGATIONAL COMPUTER GROUP INTERMEDIATE MAINTENANCE)
Course Number: C-602-3379.
Location: Air Maintenance Training Detachment, Lakehurst, NJ; Air Maintenance Training Detachment, Imperial Beach, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 8/68-Present.
Objectives: To train maintenance personnel to maintain, repair, and functionally test AN/ASA-13A navigational computer groups at their intermediate maintenance level.

Instruction: Lectures and practical exercises in operation, circuitry, calibration and adjustment, troubleshooting, and bench testing of navigational computer groups.
1-192  COURSE EXHIBITS

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0322  1. P-3 AN/ASN-42 NAVIGATIONAL COMPUTER SET INTERMEDIATE MAINTENANCE  1
   Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
   Objectives: To train maintenance personnel to diagnose, troubleshoot, maintain, and service P-3 AN/ASN-42 navigational computer set.
   Instruction: Lectures and laboratories in system components and operation, gyro's, Doppler tics, and Dopper decoupler; power supplies, electronics of navigation computers, servos, calibration and alignment, and maintenance procedures.
   Credit Recommendation: Version 1: In the lower-division associate degree category, 3 semester hours in electronics (3/74); in the lower-division vocational certificate category, 1 semester hour in electronics laboratory (3/74). Version 2: In the vocational certificate category, 7 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

2. P-3 AN/ASN-42 NAVIGATIONAL COMPUTER SET INTERMEDIATE LEVEL MAINTENANCE  1
   Course Number: C-102-3599
   Location: Air Maintenance Training Detachment, Key West, FL.
   Length: 13 weeks (520 hours).
   Exhibit Dates: 11/72-Present.
   Objectives: To train avionics personnel to maintain P-3C data-handling systems.
   Instruction: Lectures and laboratories in basic computer components, data flow in computers, diagnostics, addressing and instruction codes, input/output operations, and system maintenance.
   Credit Recommendation: In the vocational certificate category, 7 semester hours in electronics or computers (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics or computers (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics or computers laboratory (3/74).

NV-1715-0320  P-3C DIGITAL DATA HANDLING ORGANIZATIONAL MAINTENANCE
   Course Number: C-102-3599
   Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
   Length: Version 1: 10 weeks (480 hours). Version 2: 4-6 weeks (240 hours).
   Objectives: To train maintainers to maintain the P-3C digital data-handling systems.
   Instruction: Lectures and practical exercises in the operation and maintenance of the P-3C digital data-handling systems.
   Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0328  TERRIER FIRE CONTROL AND MISSILE OFFICER  1
   Course Number: A-2F-0014
   Location: Guided Missiles School, Dam Neck, VA.
   Length: 13 weeks (420 hours).
   Exhibit Dates: 10/72-Present.
   Objectives: To provide officers with instruction in the duties of the Terrier weapons, fire control, and missile battery officers.
   Instruction: Lectures and laboratories in operation, capabilities, and characteristics of weapon systems components, system alignment, telemetering flight analysis and logistics, and familiarization with missile search, target, radar systems, and fire control systems. Emphasis is on weapon system employment, electromagnetic compatibility, tactical firing considerations, and weapon system management functions.
   Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0329  P-3C INTEGRATED AVIONICS SYSTEM TECHNICIAN
   Course Number: C-102-3575.
   Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
   Objectives: To teach maintenance personnel the circuitry, signal flow, and
characteristics of missile fire control computers.

Inclusion: All Version II Lectures and laboratories in Terrier weapons system familiarization, missile fire control problems, maintenance and material management systems; maintenance turn-on, power distribution, and power supplies; and block diagram, circuitry, and signal flows.

Version 2: In the vocational certificate category, 5 semester hours in electronics or missile systems (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics or missile systems (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics or missile systems (3/74).

Credit Recommendation: Version 1: In the vocational certificate category, 5 semester hours in electronics or missile systems (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics or missile systems (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics or missile systems (3/74).

Version 2: In the vocational certificate category, 5 semester hours in electronics or missile systems (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics or missile systems (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics or missile systems (3/74).

Credit Recommendation: Version I: In the vocational certificate category, 10 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics or missile systems (3/74).

Version 2: In the vocational certificate category, 10 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics or missile systems (3/74).

NV-1715-0335
A-6 RIGHT HAND UNIT ALIGNMENT TEST SET, AND ASSOCIATE TAPE DIAL TEST SET IN INTERMEDIATE MAINTENANCE

Course Number: C-102-3765
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA
Length: 4 weeks (160 hours)
Exhibit Dates: 2/70-Present

Objectives: To train maintenance personnel who have had training in digital fundamentals to operate and maintain the right hand unit alignment test set and the encoder tape dial test set associated with the ballistics computer set.

Instruction: Lectures and practical exercises in the maintenance and operation of the right hand unit alignment test set and the encoder tape dial test set, including logic circuits, servo amplifiers, pulse generators, power supplies, block diagram and circuit analysis, and testing procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the upper-division baccalaureate category, 1 semester hour in industrial technology (3/74).

NV-1715-0336
A-6 CARD MODULE ANALYZER TEST SET, AND ASSOCIATE INTERMEDIATE MAINTENANCE

Course Number: Not available
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA
Length: 4 weeks (160 hours)
Exhibit Dates: 9/72-Present

Objectives: To train maintenance personnel to operate and maintain card module analyzer test consoles and to test, maintain, and repair modules and cards associated with ballistic computer sets.

Instruction: Lectures and practical exercises in digital numbering systems, logic circuits, counterclocks and power supplies, and maintenance procedures for module analyzers.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the upper-division baccalaureate category, 1 semester hour in industrial technology (3/74).

NV-1715-0337
CARRIAGE AIR TRAFFIC CONTROL CENTER EQUIPMENT MAINTENANCE AN/SPN-10, CLASS C

Course Number: Not available
Location: Air Technical Training Center, Glynn, GA
Length: 15 weeks (600 hours)
Exhibit Dates: Version 1: 11/69-Present
Version 2: 4/65-10/69

Objectives: To train electronic technicians to operate and maintain automatic carrier landing, systems and auxiliary equipment.

Instruction: Lectures and practical exercises in analog and digital computer basics, servo systems, power supplies, operational amplifiers, regulators, transducers, and systems maintenance.

Credit Recommendation: Version I: In the vocational certificate category, 10 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (3/74).

Version 2: In the vocational certificate category, 10 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics or navigation laboratory (3/74).

NV-1715-0340
E-2A COMPUTER DETECTOR (CP-41) AND COMPUTER DETECTOR TEST CONSOLE (OA-3731/ASM.76) INTERMEDIATE MAINTENANCE

Course Number: C-150-3460; C-150-36
Location: Air Maintenance Training Detachment, North Island, CA
Length: 12 weeks (480 hours)
Exhibit Dates: 2/66-7/74

Objectives: To train enlisted personnel who have backgrounds or aptitude in avionics and digital fundamentals to operate and maintain computers used in conjunction with target detection systems.

Instruction: Lectures and practical exercises in the maintenance of computer detectors and computer detector test consoles, including system fundamentals and timing, digital circuits, IFF detection, target computation, confidence testing, and data acquisition.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronics or computers (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics or computers (3/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in electronics or computer laboratory (3/74).

NV-1715-0341
FIRE CONTROL TECHNICIAN MK 88 REPLACEMENT

Course Number: A-121-0245; A-121-0136
Location: Guided Missiles School, Dam Neck, VA
Length: 18 weeks (398 hours)
Exhibit Dates: 10/72-Present

Objectives: To train enlisted personnel to operate and maintain the Mk 88 fire control system and associated nonmactical equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of fleet ballistic missile weapon systems, Mk 88 fire control system, analog/digital computer, digital transmitter-receiver, and magnetic disk file, including theory of operation, inertial guidance components, digital-to-analog/digital conversion, component analysis, and data flow.
COURSE EXHIBITS

Credit Recommendation: In the vocational certificate category, 9 semester hours in electronics; in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics; in the upper-division baccalaureate category, 1 semester hour in electronics laboratory.

NV-1715-0342

A-6 Ballistics Computer Test Consol. Intermediate Maintenance

Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidby Island, WA.

Length: 7 weeks (280 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel to maintain Ballistics computer test consoles at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of Ballistics computer test consoles, including electronic circuit analysis and troubleshooting, digital logic circuitry, coding, checkout equipment, timing controls, order and information registers, practical applications, and aircraft replaceable assembly checkout.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics; in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics; in the upper-division baccalaureate category, 1 semester hour in electronics laboratory for non-electronics majors.

NV-1715-0343

Tartar Computer Mk 118 Mod 0 (Tartar Computer Mk 118)

Course Number: A-150-0028.
Location: Guided Missiles School, Dam Neck, VA.

Length: 14-15 weeks (199-420 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train technicians to maintain, align, adjust, and preserve Tartar Mk 118 computers.

Instruction: Lectures and laboratories in computer operation, analog and digital devices, electromechanical devices, voltage regulators, power supplies, computer interface, and systems testing and maintenance.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronics and controls; in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and controls; in the upper-division baccalaureate category, 1 semester hour in electronics and controls.

NV-1715-0344

Mk 9 Mod 4 Dead-Reckoning Analyzer Indicator (DRAI) and Mk 6 Mod 4B Dead- reckoning Tracer (DRT), Class C

Course Number: A-623-0028; A-623-0029.
Location: Service School Command, Norfolk, VA; Service School Command, San Diego, CA.

Length: 4 weeks (90 hours).
Exhibit Dates: 9/71-Present.

Objectives: To train maintenance personnel to operate and repair dead-reckoning analyzer-indicator blocks and tracers.

Instruction: Lectures and practical exercises in the operation and repair of the Mk 9 Mod 4 dead-reckoning analyzer-indicator and the Mk 6 Mod 4B dead-reckoning tracer, including review of the 3-M system, analog and digital data converters, control devices, computer operation, and troubleshooting and preventive maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0345

Electronics Technical Officer, Class O

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.

Length: 52 weeks (2,080 hours).
Exhibit Dates: 9/57-12/68.

Objectives: To provide a basic engineering education to career Naval officers with extensive high-level technical backgrounds.

Instruction: Course covers the basic mathematics, physics, and electricity required for an understanding of electrical or mechanical engineering.

Credit Recommendation: In the vocational certificate category, 9 semester hours in mathematics, 6 in electrical circuit theory, 6 in electrical circuit theory, 6 in physics, 3 in basic science, and 3 in electrical and electronics laboratory (7/74); in the lower-division baccalaureate category, 9 semester hours in mathematics, 6 in physics, 6 in electrical circuit theory, 6 in electricity and electronics laboratory (7/74); in the lower-division baccalaureate category, 4 semester hours in mathematics.

NV-1715-0346

P-3 AN/ARC-52 UHF Communications Systems Maintenance, No. 21

Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD.

Length: 2 weeks (96 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel who have completed a course in trainer fundamentals to maintain the AN/ARC-52 UHF communications system of the P-3 aircraft.

Instruction: Lectures and practical exercises in the maintenance of the AN/ARC-52 UHF communications system of the P-3 aircraft, including review of the P-3 aircraft, including power circuits, control systems, components and operation, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0347

E-2A Digital Data Communications System (AN/ASW-14A) Intermediate Maintenance

Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.

Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel who have had previous training in basic avionics and digital fundamentals in the E-2A digital data communications system (AN/ASW-14A).

Instruction: Lectures and practical exercises in the maintenance of the E-2A digital data communications system, including special equipment, theory of operation, circuit analysis, and troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0348


Course Number: C-150-3474.
Location: Air Maintenance Training Detachment, North Island, CA.

Length: 9 weeks (360 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train enlisted personnel who have backgrounds in digital fundamentals to maintain the programming test console.

Instruction: Lectures and practical exercises in the maintenance and operation of the programming test console, including theory of operation, block diagrams of components, programming routines, programing test group' theory, power distribution, analysis of specialized equipment components, logic system timers, programmer-analyzer components, and function, and module test sets.

Credit Recommendation: In the vocational certificate category, credit in computerics on the basis of institutional examination (3/74).

NV-1715-0349

E-2A Computer Detector Semi-Automatic Check-Out Equipment (SACE) (OA-3731/ASM-76) Operation and Maintenance

Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.

Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train enlisted personnel who have had previous training or experience in avionics, computer detector maintenance, and digital fundamentals to operate computer detector semi-automatic check-out equipment.

Instruction: Lectures and practical exercises in the operation and theory of the computer detector semi-automatic check-out equipment, including equipment functions, basic components, computer output, timing and message registers, confidence tests.  

1-194
and switching, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0350 AN/AWG-10 RECEIVER, INTERMEDIATE MAINTENANCE (F-41) AN/AWG-10 RECEIVER INTER- MEDiate MAINTENANCE Course Number: C-102-3812

<table>
<thead>
<tr>
<th>Location</th>
<th>Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>5-6 weeks (200-240 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>7/68-Present.</td>
</tr>
</tbody>
</table>

Objectives: To train maintenance personnel to maintain the receiver portion of AN/AWG-10 missile control systems.

Instruction: Lectures and practical exercises in receiver circuitry, receiver waveguides, IF equipment, microwave, RF, transistors, memory, rectifiers, power supplies, and test sets.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0351 AN/ARC-27 UHF RADIO SET INTERMEDIATE MAINTENANCE

Course Number: Not available

<table>
<thead>
<tr>
<th>Location</th>
<th>Air Technical Training Center, Pensacola, FL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>Version 1: 5-12 weeks (376-476 hours); Version 2: 15-19 weeks (600-760 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>6/57-10/68.</td>
</tr>
</tbody>
</table>

Objectives: To train maintenance personnel to operate and maintain the AN/ARC-27 UHF radio set.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/ARC-27 UHF radio set, including theory of operation, various circuits, power distributions, alignment, and troubleshooting.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0352 ELECTRICAL/ELECTRONICS FUNDAMENTALS, CLASS F

Course Number: None.

<table>
<thead>
<tr>
<th>Location</th>
<th>Class P Aviation Fundamentals School, Norman, OK; Class P Aviation Fundamentals School, Jacksonville, FL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>4-6 weeks (162-240 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>6/56-6/59.</td>
</tr>
</tbody>
</table>

Objectives: To teach nonrated naval aviation personnel and some Fleet personnel the fundamentals of electricity and electronics.

Instruction: Lectures and practical exercises in the fundamentals of electricity and electronics, including basic mathematics to elementary geometry, basic physics, AC and DC electrical theory, basic magnetism, and instruments.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (3/74).

NV-1715-0353 FIRE CONTROL SYSTEM (FCS) MK 88 MOD 1 DIGITAL CONTROL COMPUTER

<table>
<thead>
<tr>
<th>Location</th>
<th>FBM Submarine Training Center, Charleston, SC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>4 weeks (120 hours).</td>
</tr>
</tbody>
</table>

Objectives: To train maintenance personnel to operate the MK 88 digital control computer.

Instruction: Lectures and practical exercises in the operation and maintenance of the MK 88 digital control computer, including memory, arithmetic, control, and input/output sections (covered at a detailed logic level); and machine-language, programs, subroutines, and preventive maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in computer laboratory (3/74); in the lower-division baccalaureate/associate degree category, credit in computer laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate/associate degree category, credit in computer laboratory on the basis of institutional examination (3/74).

NV-1715-0354 FIRE CONTROL TECHNICIAN CLASS C, GUN FIRE CONTROL SYSTEM (6FCS) MK 37

<table>
<thead>
<tr>
<th>Location</th>
<th>Service Schools Command, Bainbridge, MD; Service Schools Command, Great Lakes, IL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>13-15 weeks (376-450 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>2/69-10/75.</td>
</tr>
</tbody>
</table>

Objectives: To train fire control technicians with shipboard experience to operate, maintain, and repair the MK 37 gun fire control system at an advanced level.

Instruction: Lectures and practical exercises in the operation and maintenance of the MK 37 gun fire control system, including power supplies and maintenance management of the director, theory, construction, operation, and maintenance of the stable element; electronics and related radar instruction; analog computer theory, construction, and maintenance; and components and circuitry of the specified equipment.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0356 COMMUNICATIONS RECEIVER SITE SYSTEMS MAINTENANCE, CLASS C1

<table>
<thead>
<tr>
<th>Location</th>
<th>Air Technical Training Center, Pensacola, FL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>8 weeks (240 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>4/74-Present.</td>
</tr>
</tbody>
</table>

Objectives: To train personnel to operate, maintain, troubleshoot, and repair specific communications equipment.

Instruction: Areas of instruction include the use of special test equipment (spectrum analyzers, RF and RF generators and other equipment) to test, align and repair multiplexed communications hardware including telephone, radio, and microwave channels.

Credit Recommendation: In the vocational certificate category, 3 semester hours in radio electronics and 2 in radio electronics laboratory (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in radio electronics (9/77).

NV-1715-0357 RF-4B AN/ASO-88 AND AN/ASO-108 CNI LINE TROUBLESHOOTING MAINTENANCE

<table>
<thead>
<tr>
<th>Location</th>
<th>Air Technical Training Detachment, El Toro, CA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>4 weeks (160 hours).</td>
</tr>
<tr>
<td>Exhibit Dates</td>
<td>7/71-Present.</td>
</tr>
</tbody>
</table>

Objectives: To train maintenance personnel to maintain specific electronic/radio equipment in the RF-4B aircraft.

Instruction: Lectures and practical exercises in the maintenance of electronic and radio equipment in the RF-4B aircraft, including analysis of operation; communications systems components; navigation and identification equipment; installation of equipment, CNI, and electronic systems, and practical applications of line maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).
NV-1715-0358
P-3C AN/AXR-13 LOW LIGHT LEVEL TELEVISION CAMERA INTERMEDIATE MAINTENANCE
Course Number: C-102-3597.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 3/73-Present.
Objectives: To train personnel to operate, maintain, and align the AN/AXR-13 low-light-level television camera.
Instruction: Lectures and practical exercises in the operation, calibration, and maintenance of the AN/AXR-13 low-light-level television camera, including block diagrams, analysis, test equipment, system circuitry analysis, components, power supply, and assembly.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0359
AN/APN-171 (V) RAdar ALTIMETER (HIGH LEVEL) INTERMEDIATE MAINTENANCE
Course Number: C-102-3036.
Location: Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train personnel to service and maintain the AN/APN radar altimeters.
Instruction: Lectures and practical exercises in pulse radar maintenance procedures, including theory and analysis of various circuits and working components of the AN/APN radar altimeter.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0360
AN/APM 341 (V) DOPPLER TEST SET INTERMEDIATE MAINTENANCE
Course Number: C-104-3786, C-102-3800.
Location: Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Lemoore, CA.
Length: 5 weeks (200 hours).
Exhibit Dates: 12/72-Present.
Objectives: To train selected personnel to operate, maintain, and troubleshoot the AN/APM 341 (V) Doppler test set.
Instruction: Lectures and practical exercises in maintenance procedures for the AN/APM 341 (V) Doppler test set, including instruction on logic concepts, radar signal simulator, and spectrum analyzer, microwave converter and digital readout, metering, standing-wave ratio meter, and quick-assembly components.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0361
EKA-38 AN/ALQ-92 COUNTERMEASURES SET INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 6 weeks (240 hours).
Exhibit Dates: 12/69-Present.
Objectives: To train electronics personnel to maintain and operate the AN/ALQ-92 electronic countermeasures set.
Instruction: Lectures and laboratories in AN/ALQ-92 countermeasures system operation, including receiver, transmitter, relay assembly, and display unit, test and laboratory procedures, including performance test, trouble analysis, functional check-out, and alignment procedures.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0362
F-4B AIRBORNE MISSILE CONTROL SYSTEM AERO 1-A ORGANIZATIONAL MAINTENANCE
Course Number: C-112-3611, C-112-3809, C-112-12.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA.
Length: 5-9 weeks (200-360 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to maintain and service the AERO 1-A airborne control system.
Instruction: Lectures and practical exercises in system familiarization, test equipment, and maintenance procedures, including instruction on AN/APO-72 low-voltage power supplies, transmitters, electrical frequency controls, receiver and automatic gain controls, range tracking system, transmitters and synchronizer harmonization, vertical reference system, transmit, power supplies, indicators, and control AN/APM-32 and AN/UPM-32 radar test sets; and AN/APM-157 block-diagram, analysis, transmitter, and modulator functions.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0363
A3B ASB-7 RADAR STABILIZATION AND AUXILIARY SYSTEM INTERMEDIATE MAINTENANCE (LESS CP-209 AND AN/APN-122)
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 6 weeks (240 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train enlisted personnel to maintain ASB-7 radar, stabilization, and auxiliary systems.
Instruction: Lectures and practical exercises in operational, preoperational, and navigational problems, stabilization subsystems and associated servo loops, op-amps, periscopes, and photography, radar theory and application, and maintenance and systematic troubleshooting procedures.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0364
ELECTRONICS TECHNICIAN, CLASS C, AN/SPN-38 LORAN RECEIVING SET INTERMEDIATE MAINTENANCE
Course Number: A-102-0038.
Location: Electronics Technician, Class C School, Norfolk, VA.
Length: 5 weeks (150 hours).
Exhibit Dates: 8/71-Present.
Objectives: To train enlisted personnel to operate and maintain the AN/SPN-38 Loran receiver.
Instruction: Lectures and laboratories in Loran receiver principles, controls, operation, and maintenance, including AC and DC power distribution and control circuits; circuit and block-diagram analysis; slave pulse, strobe-pulse, and phase-discrimination circuitry, logical control section and logic analysis; and alarm indicator, and self-check sections operation and maintenance.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0366
RA-5C AN/ALQ-61 PASSIVE ELECTRONICS COUNTERMEASURES ORGANIZATIONAL MAINTENANCE
Course Number: C-102-3746.
Location: Air Maintenance Training Detachment, Albany, GA.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/69-Present.
Objectives: To train maintenance personnel to operate and maintain the AN/ALQ-61 passive electronics countermeasures set.
Instruction: Lectures and practical exercises in the maintenance and operation of the AN/ALQ-61 passive electronics countermeasures set, including transmitters, receivers, and associated equipment.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74).

NV-1715-0367
RA-SC AN/ALQ-61 COUNTERMEASURE SET SHOP MAINTENANCE
Course Number: C-102-3745
Location: Air Maintenance Training Detachment, Sanford, FL
Length: 11 weeks (440 hours)
Exhibit Dates: 1/68-Present
Objectives: To train maintenance personnel to operate, maintain, and service AN/ ALQ-61 parts-air electronic countermeasures sets and to perform shop maintenance.

Instruction: Lectures and laboratories in operation, maintenance, troubleshooting, and component repair of AN/ALQ-61 countermeasures systems.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0368
RF-4B AN/ARC-105 HIGH FREQUENCY COMMUNICATION SYSTEM AND RO-254/ASQ SOUND RECORDER MAINTENANCE
Course Number: Not available
Location: Air Maintenance Training Detachment, El Toro, CA
Length: 3 weeks (120 hours)
Exhibit Dates: 3/68-Present
Objectives: To train maintenance personnel in theory of operation and maintenance of AN/ARC-105 high-frequency communications systems and RO-254/ASQ sound recorders.

Instruction: Lectures and laboratories in operation and maintenance of AN/ARC-105 systems and RO-254/ASQ sound recorders.

Credit Recommendation: In the vocational certificate category, 8 semester hours in electronics (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0370
A-6A AN/ASQ-57 COMMUNICATION NAVIGATION IDENTIFICATION SYSTEM AND AN/AIC-14 INTERCOMMUNICATION SYSTEM INTERMEDIATE MAINTENANCE
Course Number: C-102-3766; C-102-228
Location: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Whidbey Island, WA
Length: 7 weeks (280-320 hours)
Exhibit Dates: 1/68-Present
Objectives: To train maintenance personnel to operate and maintain AN/ASQ-57 integrated electronic central and AN/AIC-14 intercommunications systems.

Instruction: Lectures and practical exercises in system familiarization, power supplies, amplifiers, transceiver electronics, alignment procedures, shop testing, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (3/74).

NV-1715-0371
F-4J AN/AWG-10 AND ELECTRONIC COUNTER COUNTERMEASURE CIRCUITRY INTERMEDIATE MAINTENANCE
Course Number: Not available
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, North Island, CA
Length: 3 weeks (120 hours)
Exhibit Dates: 1/68-Present
Objectives: To train maintenance personnel to operate the electronic counter-countermeasures circuitry of AN/AWG-10 and AN/AIC-14 systems.

Instruction: Lectures and practical exercises in circuit analysis, block diagrams, and signal flow.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74).

NV-1715-0372
RADIO AIDS UNIT (DEVICE 1-D-5), CLASS C
Course Number: Not available
Location: Air Technical Training Center, Memphis, TN
Length: 4 weeks (200 hours)
Exhibit Dates: 4/25-12/68
Objectives: To train enlisted personnel to operate, maintain, and instruct other personnel on radio aids units.

Instruction: Lectures and practical exercises on theory, operation, maintenance, and troubleshooting of radio aids units.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0373
RT 648/698 (AN/ARC-94/102/105/119/120) HF TRANSCEIVER INTERMEDIATE MAINTENANCE
Course Number: Not available
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Key West, FL; Air Maintenance Training Detachment, Whidbey Island, WA
Length: 4 weeks (120 hours)
Exhibit Dates: 5/70-Present
Objectives: To train maintenance personnel to operate and maintain the RT 648/698 HF transceivers at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of RT 648/698 HF transceivers, including principles of single-sideband communications, system and subsystem components, various translator modules, circuit analysis, and system alignment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in circuit analysis or electronics (3/74).

NV-1715-0374
P-3 AN/ARC-94 COMMUNICATIONS SYSTEM MAINTENANCE, NO. 19
Course Number: Not available
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA
Length: 3 weeks (120 hours)
Exhibit Dates: 1/68-Present
Objectives: To train maintenance personnel to maintain the AN/ARC-94 transceiver in the P-3 aircraft.

Instruction: Lectures and practical exercises in the maintenance of the AN/ARC-94 transceiver in the P-3 aircraft, including block diagram and circuit analysis, various translator modules within the system, stabilizers, power supplies, antenna operation, and associated test sets.

Credit Recommendation: In the vocational certificate category, 2 semester hours in circuit analysis or electronics (3/74).
COURSE EXHIBITS

NV-1715-0375
E-2A AN/ASQ-58 INTEGRATED ELECTRONIC CENTRAL (AN/TPQ-18) INTERMEDIATE MAINTENANCE

Objectives: To train maintenance personnel with training in the E-2A integrated electronic central TACAN and related power supply equipment at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of the E-2A integrated electronic central TACAN and related power supply equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74).

NV-1715-0378
E-2A INTEGRATED ELECTRONIC CENTRAL (AN/ASQ-58) INTERMEDIATE MAINTENANCE

Objectives: To train maintenance personnel with training in the operation and maintenance of the AN/URT-23 (V) radio transmitting set and the AN/UR-38 antenna coupler.

Instruction: Lectures and practical exercises in the maintenance and operation of the AN/URT-23 (V) radio transmitting set and the AN/UR-38 antenna coupler.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74).

NV-1715-0376
E-2A INTEGRATED ELECTRONIC CENTRAL (AN/ASQ-58) INTERMEDIATE MAINTENANCE

Objectives: To train maintenance personnel with training in the E-2A integrated electronic central TACAN and related power supply equipment at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of the E-2A integrated electronic central TACAN and related power supply equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74).

NV-1715-0377
E-2A AN/ASQ-58 INTEGRATED ELECTRONIC CENTRAL IFK KY-308/ASQ AND POWER SUPPLY—AM-2310/ASQ INTERMEDIATE MAINTENANCE

Objectives: To train maintenance personnel with training in the E-2A IFK KY-308/ASQ integrated electronic central and the AM-2310/ASQ power supply at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of the E-2A IFK KY-308/ASQ integrated electronic central and AM-2310/ASQ power supply, including theory of operation, system components, power supply, receiver, power distribution, transmitter, and decoder circuits, and alignment and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74).

NV-1715-0379
E-2A MULTI-PURPOSE COMMUNICATIONS SYSTEM (AN/ASQ-52) INTERMEDIATE MAINTENANCE

Objectives: To train maintenance personnel with training in the AN/ASQ-52 multipurpose communications system.

Instruction: Lectures and practical exercises in the maintenance and operation of the AN/ASQ-52 multipurpose communications system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74).

NV-1715-0380
AVIONICS TECHNICIAN (AVN) CLASS A INTERMEDIATE MAINTENANCE

Objectives: To train maintenance personnel with training in avionics technician (AVN) Class A.

Instruction: Lectures and practical exercises in the maintenance of avionics technician (AVN) Class A.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics and electronic circuits (3/74).

NV-1715-0382
E-2A AN/ASQ-52 DATA COMMUNICATION SYSTEM SPECIAL SUPPORT EQUIPMENT INTERMEDIATE MAINTENANCE

Objectives: To train maintenance personnel with training in the E-2A AN/ASQ-52 data communication system special support equipment.

Instruction: Lectures and practical exercises in the maintenance of the E-2A AN/ASQ-52 data communication system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics and electronic circuits (3/74).
tive maintenance of signal data converters; functions, block diagrams, radio transmitters and receivers block diagram and circuits, electronic systems, message generation, data modulation, tone level and audio adjustments, frequency synthesizers, response and analysis modules, RC correlation, and comparison and control modules of line test sets; and maintenance and testing procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0383
A-4F/LTA-4F COMMUNICATION NAVIGATION IDENTIFICATION (CNI)/ WEAPONS SYSTEMS ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3718.
Location: Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Beaufort, SC.
Length: 2 weeks (80 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train maintenance personnel to troubleshoot and maintain Communications Navigation Identification (CNI)/ weapons systems.

Instruction: Lectures and practical exercises in CNI systems used on A-4F aircraft; intercom systems and UHF communication system hardware; navigation systems, radar altimeters, and Doppler radar; high-altitude radar identification (IFF) systems; and troubleshooting, calibration, and testing procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0384
ADVANCED FIRE CONTROL SYSTEM Mk 106 MOD 5

Course Number: A-113-0037.
Location: Submarine School, Groton, CT.
Length: 5 weeks (165 hours).
Exhibit Dates: 9/70-Present.
Objectives: To train fire control technicians to maintain Mk 106 MOD 5 fire control systems and associated equipment.

Instruction: Lectures and practical exercises in troubleshooting and maintenance techniques for torpedo data computer, sound bearing computer, target designation systems, and depth, enabling, and station control circuits.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0385
DATA SYSTEMS TECHNICIAN, CLASS C, WEAPON DIRECTION SYSTEM MK XI MOD 0/1 MAINTENANCE TRAINING

Course Number: A-150-0059.
Location: Naval Schools Command, Mare Island, CA.
Length: Version 1: 10 weeks (300 hours), Version 2: 4 weeks (120 hours).
Objectives: To train enlisted personnel to operate and maintain weapon direction systems.

Instruction: Lectures and laboratories in system familiarization, isolation and repair of malfunctions, and utilization of tools and test equipment units; test and calibration procedures; and fault isolation techniques.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0386
SH-3 AN/AQS-13 SONAR MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Ream Field, CA; Air Maintenance Training Detachment, Key West, FL.
Length: 6 weeks (240 hours).
Exhibit Dates: 8/67-Present.
Objectives: To train avionics maintenance personnel to maintain and repair the AN/AQS-13 sonar.

Instruction: Lectures and laboratories in sound and semiconductor theory, cathode ray tubes, and the theory of operation of the AN/AQS-13 sonar.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics laboratory (4/74); in the lower-divison baccalaureate/associate degree category, 1 semester hour in electronics (4/74).

NV-1715-0387
COMMUNICATIONS TRANSMITTER SITE SYSTEMS MAINTENANCE, CLASS C1

Course Number: A-101-0069.
Location: Service School Command, Great Lakes, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 10/73-Present.
Objectives: To train personnel to operate and maintain specific communications systems.

Instruction: Lectures and practical exercises in the operation and maintenance of equipment including microwave radio assemblies, transmitter fundamentals, microwave multiplexing, telephone terminals, telegraph terminals, and multichannel telegraph.

Credit Recommendation: In the vocational certificate category, 2 semester hours in communications equipment troubleshooting (9/47).

NV-1715-0388
AN/ASN-90 INERTIAL MEASUREMENT SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3788.
Location: Air Maintenance Training Detachment, Cecil Field, FL.
Length: 4 weeks (152-160 hours).
Exhibit Dates: 9/71-Present.
Objectives: To train enlisted personnel who have had previous training in digital fundamentals and electronics to maintain, assemble, and troubleshoot inertial measurement equipment, using semiautomatic and automatic testing equipment.

Instruction: Lectures and practical exercises in functional operation of AN/ASN-90 inertial measurement sets, controllers, adapter/power assemblies, and inertial measurement units; test and calibration procedures; and fault isolation techniques.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0389
RELAY TRANSMITTER Mk 60 MOD 0 MAINTENANCE—UFCG Mk 114 MODS 9-12

Course Number: A-130-0060.
Location: Fleet Sonar School, Key West, FL.
Length: 3 weeks (105 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train enlisted personnel to operate and maintain Mk 60 MOD 0 relay transmitters.

Instruction: Lectures and laboratories in block diagram and circuit analysis and system operation and maintenance procedures, with emphasis on system test functions. A highly specialized equipment course.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0390
AN/WPN-4 MAINTENANCE

Course Number: F-102-014.
Location: Submarine School, Groton, CT.
Length: 4 weeks (120 hours).
Exhibit Dates: 10/67-Present.
Objectives: To train enlisted personnel to operate and maintain the AN/WPN-4 Loran C receiving set.

Instruction: Lectures and laboratories in AN/WPN-4 Loran C, receiver fundamentals; system components and operation, including data flow, indicator subassembly, delay switches and network pulse delay, pulse generator, and cycle, envelope and amplitude, and guard and signal-monitoring chains; use of schematics and technical manuals; and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (4/74).

NV-1715-0391
TERRIER MARK 152 COMPUTER COMPLEX

Course Number: A-150-0085.
Location: Guided Missile School, Dam Neck, VA.
Length: 9 weeks (360 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel to operate and maintain missile fire control equipment and electronic test equipment.

Instruction: Lectures in fire control system functions and characteristics; fire control computer turn-on, load, and turn-off procedures; interface requirements and control formats; digital and analog computer, master clock, and digital control; logic flow of writing operations and data flow of read operations; input/output control and opera-
1-200 COURSE EXHIBITS

COURSE NUMBER: A-690-0018.

LOCATION: San Diego Naval Training Center, Miramar, CA.

Exhibit Dates: 11/72-Present.

OBJECTIVES: To train fleet maintenance personnel to maintain, service, and troubleshoot AN/ALQ-88 countermeasures sets and associated circuits, aircraft ECM systems, and system maintenance/technical procedures.

CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (4/74).

COURSE NUMBER: C-102-3071.

LOCATION: Air Training Detachment, El Toro, CA.

Exhibit Dates: 4/74-Present.

OBJECTIVES: To train fleet maintenance personnel to operate, maintain, and repair the F-4J and RF-4B AN/ALQ-88 countermeasures sets.

CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (4/74).

COURSE NUMBER: C-102-3058.

LOCATION: Air Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA.

Exhibit Dates: 4/74-Present.

OBJECTIVES: To train fleet maintenance personnel to operate, maintain, and repair the MK 474 test set in the Mk 474 system introduction, including functional block diagram analysis, system dynamic tester introduction, angle error circuits, pulse delay network, target modification, and computer software analysis.

CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (4/74).

COURSE NUMBER: C-102-3018.

LOCATION: Air Maintenance Training Detachment, Miramar, CA.

Exhibit Dates: 8/70-Present.

OBJECTIVES: To train fleet maintenance personnel to operate, maintain, and repair the RF-4B AN/APQ-102 side-looking radar.

CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (4/74).

COURSE NUMBER: C-102-3093.

LOCATION: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA.

Exhibit Dates: 3/74-Present.

OBJECTIVES: To train fleet maintenance personnel to maintain, service, and troubleshoot the Mk 100 Mod 2 Terrier missile system, including fire control system installation, operational procedure of basic computer, associated equipment in deck-tilt and radar position modes, shipboard and airborne fire control, and troubleshooting of computer and weapons director circuits.

CREDIT RECOMMENDATION: No credit because of the limited technical nature of the course (4/74).
laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (3/74).

NV-1715-0401
Radarman, Class A, Basic Preventive Maintenance and Operators
Course Number: Not available.
Location: Class A Radarman School, Great Lakes, IL; Class A Radarman School, Norfolk, VA.
Length: 24 weeks (960 hours).
Exhibit Dates: 9/94-12/95.
Objectives: To train enlisted personnel to maintain, and determine the operational readiness of, radar equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics or electrical engineering.

NV-1715-0402
Radar Signal Processing Equipment (RSPE) Maintenance
Course Number: K-113-2033.
Location: Fleet Training Center, San Diego, CA.
Length: 4 weeks (114-120 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train fire control technicians to operate and maintain specific radar signal processing equipment (RSPE).

Credit Recommendation: In the vocational certificate category, 3 hours in electronics or electrical engineering.

NV-1715-0403
Radar Signal Processing Equipment (RSPE) Maintenance Mk I and Mods
Course Number: J-113-0111; J-113-1112.

Location: Fleet Anti-Air Warfare Training Center, Dam Neck, VA.
Length: 7 weeks (245 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train fire control technicians to operate and maintain specific radar signal processing equipment (RSPE).

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics or electrical engineering.

NV-1715-0404
Sonar AN/SQS-38 Maintenance (USCG)
Course Number: A-130-0071.
Location: Fleet Anti-Submarine Warfare Training Center, San Diego, CA; Fleet Sonar School, Key West, FL.
Length: 10 weeks (388-400 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train Coast Guard sonar operators to maintain, calibrate, and operate the AN/SQS-38 sonar, the WQC2 underwater telephone, and associated equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/SQS-38 sonar set, WQC2 underwater telephone, and built-in test equipment, including special circuits, power supplies and distribution, transmission signal development, transmitter modules, transducers, and transducer switching; and receiving subsystems, including classification, position-indicator system timing and deflection circuitry, primary cursor generator, and servos.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics or electrical engineering.

NV-1715-0405
Sonar AN/SQS-26CX and AN/SQS-53 Maintenance (USCG)
Course Number: A-130-0102; A-130-0047; A-130-0048; J-130-0865.
Location: Fleet Sonar School, Key West, FL; Fleet Anti-Submarine Warfare School, San Diego, CA.
Length: 24-30 weeks (798-900 hours).
Exhibit Dates: 4/79-Present.
Objectives: To train enlisted personnel to maintain, troubleshoot, and repair the specified sonar detecting-ranging equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/SQS-26CX and, beginning February 1977, the AN/SQS-53 sonar detecting-ranging set, including binary mathematics and logic, test equipment, modes of operation, range amplifiers, power distribution, sonar monitor, model generation and control, surface contact, and transmitter. B-scan receiver and display, various components, range measurement and servos.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics troubleshooting (8/77).

NV-1715-0406
A-6 Associated Radar Test Equipment Intermediate Level Maintenance
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 8 weeks (320 hours).
Exhibit Dates: 5/70-12/70.
Objectives: To train maintenance personnel to operate, troubleshoot, and maintain search radars and associated test equipment.

Instruction: Lectures and laboratories in theory of operation and system functions of radar set controls, azimuth/elevation range indicators, search radar antenna RECEIVERS, and data processing units.

Credit Recommendation: In the vocational certificate category, credit in electronics or electrical engineering on the basis of institutional examination (3/74); in the upper-division baccalaureate/associate degree category, credit in electronics or electrical engineering on the basis of institutional examination (3/74).

NV-1715-0407
Closed Circuit Television Maintenance, Class C1
Course Number: A-198-0025.
Location: Service School Command, Great Lakes, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/74-Present.
Objectives: To provide detailed instruction in the components of closed circuit television and to train personnel in operation and corrective maintenance.

Instruction: Demonstrations in parts identification and operation of the closed circuit television system utilizing a small amount of test procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in closed circuit television (9/77).

NV-1715-0408
A-7 AN/APQ-116 Radar Set Intermediate Maintenance
Course Number: C-104-3782.
Location: Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Lemoore, CA.
Length: 6 weeks (240 hours).
Exhibit Dates: 9/68-Present.
Objectives: To train maintenance personnel to operate, maintain, service, and repair AN/APQ-116 radar sets.

AN/APQ-116 radar set familiarization, security, radiation hazards, and special circuit analysis; power supplies, antenna systems, and trans mitter modules; general component theory; receiver circuit analysis, antenna receivers, command components, and alarm monitors; display analysis, sweep generators, and indicator systems; and system maintenance, troubleshooting procedures, and performance testing.

Credit Recommendation: In the vocational certificate category, credit in electricity and electronics on the basis of institutional examination (3/74); in the upper-division baccalaureate/associate degree category, credit in electricity and electronics on the basis of institutional examination (3/74).

NV-1715-0413
WEAPONS DIRECTION SYSTEM (WDS) MK 7 Mod 3 (CAREER)

Exhibit Dates: 5/69-Present.
Location: Guided Missiles School, Dam Neck, VA.
Length: 20 weeks (759 hours).

Objectives: To train fire control technicians to maintain and repair Mk 7 Mod 3 weapon direction systems.

Instructor: Lectures and practical exercises in weapons direction equipment and related power, simulating, sweep generation, video, display, tracking, symbol, and data conversion systems; introduction to Terrier weapon systems, computer, radar sets, launching systems, and maintenance procedures; and utilization of dual-trace scope, AC/DC differential voltmeter, and digital voltmeter.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0414
WEAPONS DIRECTION SYSTEM (WDS) MK 7 Mod 3 (6-Year Obligor)

Course Number: A-121-0032.
Location: Guided Missiles School, Dam Neck, VA.
Length: 20 weeks (759 hours).

Objectives: To train fire control technicians to maintain and repair Mk 7 Mod 3 weapon direction systems.

Instructor: Lectures and practical exercises in weapons direction equipment and related power, simulating, sweep, video, display, tracking, symbol, and data conversion systems; introduction to Terrier weapon systems, computer, radar sets, launching systems, and maintenance procedures; and utilization of dual-trace scope, AC/DC differential voltmeter, and digital voltmeter.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74).
Objectives: To train maintenance personnel who have had previous training in transistor and digital computer fundamentals to maintain AN/APQ-99 forward-looking radar (FLR) through the intermediate level of maintenance.

Instruction: Lectures and practical exercises in theory, operation and bench procedures for AN/APQ-99 systems; block-diagram analysis of transmitter, receiver, and antenna systems; power supply programmers; radar set control, indicators; and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity or electronics (3/74); in the lower-division baccalaureate/associate degree category, credit in electricity or electronics on the basis of institutional examination (3/74).

NV-1715-0416

SSN/CVA SPECIAL TECHNOLOGY (ENLISTED)

Course Number: F-193-072.
Location: Submarine School, Groton, CT.
Length: 5 weeks (150 hours).
Exhibit Dates: 10/68-2/70.

Objectives: To provide electronics technicians with initial training in the theory and operation of basic components of inertial navigation systems, and to prepare them for advanced studies in digital computer and navigation systems repair.

Instruction: Lectures and laboratories in testing and repair, test equipment, transistor fundamentals, and basic module repair; digital mathematics, numbering systems, arithmetic operations, and coding systems; digital circuits, symbology, switching circuits, gating circuits, computer components, digital counters, timing-shelf registers, and inputs and output devices; programming, scaling, coding and addressing, and flow charts; and navigation theory, physics of motion, and inertial navigation system components and synchron.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity or electronics laboratory (3/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics laboratory (3/74); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics laboratory (3/74).

NV-1715-0417

QH-50D TARGET CONTROL SYSTEM AN/ SRW-4B INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Training Detachment, Dam Neck, VA; Air Maintenance Training Detachment, North Island, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel to maintain AN/SRW-4B target control system support equipment.

Instruction: Lectures and practical exercises in target control system familiarization; description, location, and operation of transmitter controls, demonstration of radio transmitting sets; functional analysis of amplifier modulators, amplifier frequency multipliers, coders, and power supplies; and intermediate maintenance of target control system test sets, transmitter controllers, and transmitting sets.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (3/74).

NV-1715-0418

QH-50C TARGET CONTROL SYSTEM AN/ SRW-4B INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Dam Neck, VA; Air Maintenance Training Detachment, North Island, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel to maintain AN/SRW-4B target control system support equipment.

Instruction: Lectures and practical exercises in target control system familiarization; description, location, and operation of transmitter controls, demonstration of radio transmitting sets; functional analysis of amplifier modulators, amplifier frequency multipliers, coders, and power supplies; and intermediate maintenance of target control system test sets, transmitter controllers, and transmitting sets.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (3/74).

NV-1715-0419

TALOS COMPUTER Mk 111 MOD 1, CLASS C

Course Number: Not available.
Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.
Length: 16 weeks (465 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train enlisted personnel to maintain Talos computers.

Instruction: Lectures and practical exercises in Talos weapon systems familiarization; basics of analog computers; and Mk 111 Mod 1 computer components and circuits, system function, physical description, data flow maintenance, interrupt display, and evaluation displays.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0420

SONAR AN/SQS-26 SERIES SONAR OPERATOR BASIC
(SONAR AN/SQS-26 AXR(A) AND CX OPERATIONS BASIC) (AN/SQS-26 AXR & CX OPERATOR)

Course Number: A-130-0086; J-130-0875.
Location: Fleet Anti-submarine Warfare Training Center, San Diego, CA; Fleet Soar School, Key West, FL.
Length: 3 weeks (91-94 hours).
Exhibit Dates: 7/69-Present.

Objectives: To train sonar technicians to operate AN/SQS-26AXR(A) & CX sonars.

Instruction: Lectures and practical exercises in system description, modes of operation, performance prediction, and search procedures, and deep-water sound transmission, including physical properties of sea water, acoustic ray theory, reverberations, measurement of sound, and propagation factors.

Credit Recommendation: No credit because of the military-specific nature of the course (8/77).

NV-4715-0421

TARTAR RADAR AN/SPG-51B OR RADAR AN/SPG-51C, CLASS C

Course Number: A-104-0127.
Location: Guided Missiles School; Dam Neck, VA; Naval Schools Command, Mare Island, CA.
Length: 24 weeks (720 hours).
Exhibit Dates: 2/68-Present.

Objectives: To train fire control technicians to maintain AN/SPG-51B/C radars.

Instruction: Lectures and practical exercises in Tartar weapons system familiarization, fire control systems, radar; ranging systems, and evaluation displays; radar set consoles; casualty analysis specialized test set operation; Tartar missile guidance systems.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0422

S-2D/E AN/APN-122 DOPPLER RADAR NAVIGATION SYSTEM MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA; Air Maintenance, Training Detachment, Key West, FL.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel to maintain, troubleshoot, and repair AN/APN-122 Doppler radar navigation systems.

Instruction: Lectures and practical exercises in Doppler radar theory, power distribution, signal data converters; conversion of beam coordinates to ground speed and drift angles; ground speed computers; vertical reference systems; signal loops; drift angles; location and replacement of malfunctioning components; special test equipment; and system troubleshooting.

Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0423

BASIC SURFACE SONAR TECHNICIAN, CLASS A CORE PHASE
(SONAR TECHNICIAN CLASS A-1 (SURFACE))

Course Number: A-130-0037; A-130-0038; J-130-0505.
NV-1715-0424
RA-5C AN/AYA-1 SIGNAL DATA CONVERTER GROUP INTERMEDIATE MAINTENANCE
Course Number: C-100-3746.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 5 weeks (200 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to operate, maintain, and service RA-5C signal data converter groups at the intermediate maintenance level and to utilize naval air maintenance training units and apparatus and general and special support equipment.
Instruction: Lectures and practical exercises in theory of operation and maintenance of signal data converters, data translators, photo-channel data processing, translator tape channels, recording head amplifiers, and optical viewfinders.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0425
AN/UQN-4 SONAR SOUNDING SET MAINTENANCE (AN/UQN-4 ECHO SOUNDER MAINTENANCE) (SONAR SOUNDING SET AN/UQN-4)
Course Number: A-130-0074; F-130-018.
Location: Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA; Submarine School, Groton, CT.
Length: 2-3 weeks (60-90 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel with knowledge of sonar and solid-state theory to operate and maintain the AN/UQN-4 sonar sounding set.
Instruction: Lectures and practical exercises in the maintenance of the AN/UQN-4 sonar sounding set, including the 3-M system, computer mathematics and logic, solid-state devices, power supplies, frequency generation and selection circuits, recorder panel assembly and drive motor control, keying and transmitter circuits, pulse generator, remote indicator, keel reference unit, decoder, and clearing control; digital readout, countdown, and storage control circuits; receiver circuits; and troubleshooting and alignment.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (11/77).

NV-1715-0426
SSN Mk 3 Mod 6 SHIPS INERTIAL NAVIGATION SYSTEM (SINS) MAINTENANCE
(Mk 3 Mod 6 SHIPS INERTIAL NAVIGATION SYSTEM (SINS) MAINTENANCE (ENLISTED))
Course Number: A-193-0032; F-193-032; F-193-080.
Location: Submarine School, Groton, CT.
Length: 19-25 weeks (570-750 hours).
Exhibit Dates: 4/69-Present.
Objectives: To train electronics technicians to operate, evaluate, and maintain the Mk 3 Mod 6 ship's inertial navigation system.
Instruction: Lectures and practical exercises in tracing electrical and mechanical loops, performing specified checks and tests, Mk 3 Mod 6 systems malfunctions isolation and repair, MINDAC computer familiarization; transistor theory review, analog system components, oscilloscope operation, and computer mathematics.
Credit Recommendation: In the vocational certificate category, credit in electronics or on the basis of institutional examination (3/74).

NV-1715-0427
SSBN NAVIGATION DATA ASSIMILATION COMPUTER Mk 2 MOD 4, STABILIZATION DATA COMPUTER Mk 3 MOD 1
Course Number: A-193-017.
Location: Guided Missiles School, Dam Neck, VA.
Length: 23 weeks (805 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train electronics technicians to operate and maintain type 11 periscope systems, Mk 3 Mod 1 stabilization data computer (SDC), and specific navigation data assimilation computers and control consoles.
Instruction: Lectures and practical exercises in the maintenance of specific periscope systems, stabilization data computers, navigation data assimilation computers and control consoles, including celestial navigation, hydraulic systems, periscope optical system, relay controlled sequencing, complex servo-mechanism theory, optical monitoring and error determination, general computer principles and programming, circuit analysis, various input and output theories and techniques, and fault isolation.
Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0428
AN/APQ-124A RADAR SET INTERMEDIATE MAINTENANCE (F-8 AN/APQ-124A RADAR INTERMEDIATE MAINTENANCE)
Course Number: C-102-3855.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 5 weeks (300-240 hours).
Exhibit Dates: 9/69-Present.
Objectives: To train fleet maintenance personnel who have previous training in electronics to maintain the AN/APQ-124A radar set.
Instruction: Lectures and practical exercises in the maintenance of the AN/APQ-124A radar set, including review of basic electronics and circuit analysis and troubleshooting of components, power systems, transmitting, receiver, tracker system, display system; antenna system; and computer system.
Credit Recommendation: In the vocational certificate category, credit in electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional examination (3/74); in the upper-division baccalaureate category, credit in electronics on the basis of institutional examination (3/74).

NV-1715-0429
A-6A TRACK RADAR AND MODULE ANALYZER TEST CONSOLE INTERMEDIATE MAINTENANCE (A-6 TRACK/RADAR MODULE ANALYZER TEST CONSOLE (INTERMEDIATE LEVEL MAINTENANCE))
Course Number: C-150-31.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 10-12 weeks (400-480 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to maintain, troubleshoot, and repair modules of the AN/APO-112 track radar, the AN/APM-225 module analyzer test bench, and the OA-3735/ASM-7 track radar test console.
Instruction: Lectures and laboratories in AN/APO-112 track radar, control and power circuits, receiving and video processing, servo amplifiers and antenna control, module analyzer test console (MATC) circuits, critical-signal generators, data processors, module maintenance, Safe module theory and maintenance, and gyro control and stabilization.
Credit Recommendation: In the vocational certificate category, credit in electronics and electronics laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics and electronics laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate category, credit in electronics and electronics laboratory on the basis of institutional examination (3/74).

NV-1715-0430
F-4B AN/APQ-72 RADAR SET INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Miramar, CA.
Length: 5 weeks (200 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel who have knowledge of airborne missile control systems to maintain the AN/APQ-72 radar set at the intermediate level.
**Instruction:** Lectures and practical exercises in the maintenance of the AN/APQ-72 radar set, including circuit analysis of low-voltage power supply, transmitter, and electrical frequency control; operational analysis of the equipment; circuit analysis of the receiver, automatic gain control, range track, and relay functions; and troubleshooting of the synchronizers, antenna, and indicating systems control.

**Credit Recommendation:** In the vocational certificate category, credit in electrical laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (3/74).

**NV-1715-0431**
A-6A AN/APQ-92 SEARCH RADI& MODULE ANALYZER TEST BENCH INTERMEDIATE MAINTENANCE

**Course Numbers:** Not available.

**Location:** Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.

**Length:** 13 weeks (520 hours).

**Exhibit Dates:** 1/70–Present.

**Objectives:** To train maintenance personnel who have had previous training in basic electronics, transistor fundamentals, and subminiature repair to operate and maintain the AN/APQ-92 search radar and associated search radar and module analyzer test console.

**Instruction:** Lectures and practical exercises in the maintenance and operation of the AN/APQ-92 search radar and associated test consoles, including search radar displays, systems operation; analysis of the control, electrical synchronizer, video processor, azimuth/range/elevation indicator,方位/range indicator, and data processor unit, servo electronics unit, transmis circuit; antenna/receiver, terrain clearance, processor, and module theory of operation.

**Credit Recommendation:** In the vocational certificate category, credit in electronics on the basis of institutional examination (3/74).

**NV-1715-0432**
UH-2A AN/ARN-130 RADAR NAVIGATION EQUIPMENT

**Course Number:** Not available.

**Location:** Air Maintenance Training Detachment, Rcam Field, CA; Air Maintenance Training Detachment, Lakehurst, NJ.

**Length:** 4 weeks (160 hours).

**Exhibit Dates:** 1/68–Present.

**Objectives:** To train maintenance personnel to maintain the UH-2A helicopter's navigational system.

**Instruction:** Lectures and practical exercises in the maintenance of the navigational system of the UH-2A helicopter, including an introduction to Doppler radar, transistor review, power supply, receiver-transmitter, and low-level/complex analysis; huer, auto, and other myics, and system troubleshooting and alignment.

**Credit Recommendation:** Insufficient data for evaluation (3/74).

**NV-1715-0433**
CLUTTER SUPPRESSOR AND AUTOMATIC ALARMS FOR THE AN/SPS-10

**Course Number:** A-104.0132.

**Location:** Naval Schools Command, San Francisco, CA.

**Length:** 4 weeks (120 hours).

**Exhibit Dates:** 1/72–Present.

**Objectives:** To train electronics technicians who have had previous training or experience in AN/SPS-10 radars, transistor theory, integrated circuit theory, and circuit board repair to maintain the clutter suppressor and automatic alarm units and associated equipment of the AN/SPS-10 radar system.

**Instruction:** Lectures and practical exercises in the maintenance of the clutter suppressor and automatic alarm units of the AN/SPS-10 radar system and associated equipment, including basic operation, signal flow, functional, module and circuit analysis of the equipment, and functional troubleshooting.

**Credit Recommendation:** In the vocational certificate category, credit in electricity or electronics on the basis of institutional examination (3/74).

**NV-1715-0434**
AN/APX-76A AIR/ARF INTERROGATOR SET INTERMEDIATE MAINTENANCE

**Course Number:** C-102-3066.

**Location:** Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC.

**Length:** 3 weeks (120 hours).

**Exhibit Dates:** 8/70–Present.

**Objectives:** To train fleet maintenance personnel who have backgrounds in IFF systems and digital fundamentals to operate and maintain the AN/APX-76A interrogator set at the intermediate level.

**Instruction:** Lectures and practical exercises in the operation and maintenance of the AN/APX-76A interrogator set, including block-diagram analysis of the transmit and receive section and performance monitor, and analysis of various circuits.

**Credit Recommendation:** In the vocational certificate category, credit in electronics on the basis of institutional examination (3/74).

**NV-1715-0437**
TARTAR WEAPON DIRECTION SYSTEM (WDS) Mk 4, MOD 0

**Course Number:** A-121-0029, A-121-0030.

**Location:** Guided Missile School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.

**Length:** 20 weeks (549 hours).

**Exhibit Dates:** 1/68–Present.

**Objectives:** To train enlisted personnel to maintain the Mk 4 Mod 0 weapons direction system.

**Instruction:** Lectures and practical exercises in the maintenance of the weapons direction system, including an introduction to the Tartar weapon control system, power system, simulation, sweep generation; sweep deflection, display system, tracking and target evaluation, WDE MK 1 adjustments, designation data converting system, and weapon assignment system.

**Credit Recommendation:** In the vocational certificate category, credit in electronics laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74).

**NV-1715-0438**
TARTAR WEAPON DIRECTION SYSTEMS (WDS) Mk 4, MOD 0

**Course Number:** A-121-0029, A-121-0030.

**Location:** Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.

**Length:** 20 weeks (549 hours).

**Exhibit Dates:** 1/68–Present.

**Objectives:** To train enlisted personnel to maintain the Tartar weapon control system.

**Instruction:** Lectures and practical exercises in the maintenance of the Tartar weapon control system, power system, simulation, sweep generation; sweep deflection, display system, tracking and target evaluation, WDE MK 1 adjustments, designation data converting system, and weapon assignment system.

**Credit Recommendation:** In the vocational certificate category, credit in electronics laboratory on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (3/74).
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Neck, VA.

SSBN SHIPS INERTIAL NAVIGATION SYSTEM

NV-1715-0440

RA-5C STILL PICTURE CAMERA SHOP

MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, Sanford, FL.

Length: 5 weeks (200 hours).

Exhibit Dates: 1/68-Present.

Objectives: To train maintenance personnel who have had previous training in electronic circuits and transistor fundamentals to operate and maintain the RA-5C still-picture, aerial reconnaissance camera system.

Instruction: Lectures and practical exercises in the operation and maintenance of the RA-5C still-picture, aerial reconnaissance camera system, including photosensitive control panels and associated circuitry, shutter control assembly, various modules, still-picture and camera mounts, operation and assembly of specific camera equipment, and flasher system components and operation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in physics, 4 in electronics (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in physics, 2 in electronics (3/74).

NV-1715-0440

SSBN SHIPS INERTIAL NAVIGATION SYSTEM (SINS) Mk 2 Mod 4 TECHNICIAN

Course Number: A-193-014.

Location: Guided Missiles School, Dam Neck, VA.

Length: 25 weeks (840 hours).

Exhibit Dates: 11/72-Present.

Objectives: To train electronics technicians with backgrounds in Polaris or fleet ballistic missile electronics to operate and maintain specific ship's inertial navigation systems, multispeed repeaters, sounder sounding sets, and interconnecting boxes.

Instruction: Lectures and practical exercises in the operation and maintenance of the Mk 2 Mod 4 ship's inertial navigation system, the 'Mk 3 Mod 3 multispeed repeater, the AN/BQN-3 sounder sounding set, and the Mk 6 Mod 1 interconnecting box, including subsystem tie-in and associated test equipment operation, fleet ballistic missile sounding set operation, analysis of the sounder sounding set, and repair procedures.

Credit Recommendation: In the vocational certificate category, 5 semester hours in electronics and electronics laboratory (4/74).

NV-1715-0441

AN/SRN-9A, RADIO NAVIGATION SET

OPERATION AND MAINTENANCE

Course Number: F-193-072.

Location: Submarine School, Groton, CT.

Length: 3 weeks (90 hours).

Exhibit Dates: 5/71-Present.

Objectives: To train submarine electronics technicians to operate the navigation satellite system and to operate and maintain the AN/SRN-9A radio navigation set.

Instruction: Lectures and practical exercises in the operation and maintenance of the navigation satellite system and the AN/SRN-9A radio navigation set, including specialized treatment of equipment and systems, modulation, logic circuits, test signal generator, symbolic integrated maintenance, receiver and message demodulator, digital processing unit, power supply, electrothermal teleprinter, and software.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0442

TERRIER WEAPONS SYSTEM MISSILE FIRE CONTROL SYSTEM (MFCS) Mk 73

Course Number: Not available.

Location: Service Schools Command, Great Lakes, IL.

Length: 6 weeks (180 hours).

Exhibit Dates: 2/68-Present.

Objectives: To train senior petty officers to supervise Terrier missile weapons systems technical operations.

Instruction: Lectures and practical exercises in the operation of Terrier weapons systems, including system data flow, specific system description, target detection, selection, and tracking, director assignment, target designation and control system, acquisition and tracking using special equipment, circuit analysis, equipment components, and computation of missile and launcher power loading, signals and weapon assignment, and testing and maintenance procedures.

Credit Recommendation: In the vocational certificate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0443

TERRIER WEAPONS SYSTEM MISSILE FIRE CONTROL SYSTEM (MFCS) Mk 76

Course Number: Not available.

Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.

Length: 10 weeks (300 hours).

Exhibit Dates: 2/68-Present.

Objectives: To train senior petty officers to supervise Terrier missile weapons systems technical operations.

Instruction: Lectures and practical exercises in the operation of Terrier missile weapons systems, including basic systems operation and equipment, target detection, missile selection and WDE-tracking, FCS assignment and target tracking, and fire control problem computation using computers, missile firing and guidance, data reduction, and test and alignment procedures.

Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1715-0444

TALOS WEAPONS SYSTEM Mk 77 MOD 2

CLASS C

Course Number: Not available.

Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.

Length: 10 weeks (300 hours).

Exhibit Dates: 2/68-Present.

Objectives: To train fire control technicians to lead Talos missile weapons systems technical operations.

Instruction: Lectures and practical exercises in the operation of Talos missile weapons systems, including cruiser weapons systems, search radar sets, test equipment, target detection, identification, entry and tracking, evaluation, and acquisition; associated missile operation and servicing, weapon control and data system, the 3M system, and system testing and alignment procedures.

Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1715-0446

AN/DSM-32 SPARROW III GUIDED MISSILE TEST EQUIPMENT INTERMEDIATE MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, Miramar, CA.

Length: 4 weeks (160 hours).

Exhibit Dates: 9/67-Present.

Objectives: To train enlisted personnel to maintain and operate the Sparrow III missile and associated test equipment at the intermediate level.

Instruction: Lectures and practical exercises in the operation and maintenance of the Sparrow III and associated test equipment, including checkout procedures, test set analysis and components, calibration and testing, and troubleshooting and repair procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics I in electronics laboratory (4/74).
A-7A/B INTEGRATED AVIONICS WEAPONS SYSTEM TECHNICIAN ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3794.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 6 weeks (224 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train fleet maintenance personnel to maintain the communications, navigation, identification, and weapons systems of the A-7A/B weapons system.

Instruction: Lectures and practical exercises in problems and operational checks on the A-7A/B weapons system.

A-6 ELECTRONIC MODULE TEST CONSOLE INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 3 weeks (120 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train enlisted personnel who have background in avionics and electronic equipment to operate and maintain the AN/ASM-175 (XN-1) electronic module test console.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/ASM-175 (XN-1) electronic module test console.

RA-5C FLIGHT CONTROL SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3749.
Location: Air Maintenance Training Detachment, Albany, GA; Air Maintenance Training Detachment, Sanford, FL.
Length: 2-3 weeks (80-120 hours).
Exhibit Dates: 4/68-3/73.
Objectives: To train maintenance personnel to maintain the RA-5C flight control systems in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

Instruction: Lectures and practical exercises in the RA-5C flight control systems, including flight reference systems, and flight control system components and operation.

A-4E CNI/WEAPONS SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3724.
Location: Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment; Beaufort, SC.
Length: 2 weeks (80 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train fleet maintenance personnel to maintain the communications, navigation, identification, and weapons systems of the A-4E Douglas Skyhawk aircraft.

Instruction: Lectures and practical exercises in flight-line maintenance of the A-4E Douglas Skyhawk aircraft communications, navigation, identification, and weapons systems, including system analysis, transmitters, radar fundamentals, digital computer principles, specific UHF equipment, striking improved display system, and system operation and analysis.

RA-5C FLIGHT CONTROL SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 3 weeks (200 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train maintenance personnel with knowledge of the RA-5C flight control systems at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of flight control systems, including electronic module test console.

Navy 1-207

FLEET BALLISTIC MISSILE (F BM) NAVIGATION OFFICER

Course Number: Not available.
Location: Guided Missiles School, Dam Neck, VA.
Length: 13 weeks (630 hours).
Exhibit Dates: 3/65-12/68.
Objectives: To train officers as fleet ballistic missile navigation officers.

Instruction: Lectures and practical exercises in the functions of fleet ballistic missile navigation officers, including inertial navigation, transmission system, electronic and transistors, computers, ship's inertial navigation system and hardware description, marine differential analyzer, and navigational aspects of the FBM program and Navy system operational laboratory.

A-4E CNI/WEAPONS SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3744.
Location: Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 4-5 weeks (160-200 hours).
Exhibit Dates: 3/69-Present.
Objectives: To train maintenance personnel to operate and maintain the RA-5C flight control systems in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

Instruction: Lectures and practical exercises in the RA-5C flight control systems, including flight reference systems, flight control system components and operation.

A-4E CNI/WEAPONS SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3761.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 4 weeks (160 hours).
Exhibit Dates: 7/69-Present.
Objectives: To train maintenance personnel to operate and maintain the RA-5C flight control systems in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

Instruction: Lectures and practical exercises in the RA-5C flight control systems, including flight reference systems, flight control system components and operation.

A-4E CNI/WEAPONS SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3724.
Location: Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 2 weeks (80 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train fleet maintenance personnel to maintain the communications, navigation, identification, and weapons systems of the A-4E Douglas Skyhawk aircraft.

Instruction: Lectures and practical exercises in flight-line maintenance of the A-4E Douglas Skyhawk aircraft communications, navigation, identification, and weapons systems, including system analysis, transmitters, radar fundamentals, digital computer principles, specific UHF equipment, striking improved display system, and system operation and analysis.

Navy 1-207

FLEET BALLISTIC MISSILE (F BM) NAVIGATION OFFICER

Course Number: Not available.
Location: Guided Missiles School, Dam Neck, VA.
Length: 13 weeks (630 hours).
Exhibit Dates: 3/65-12/68.
Objectives: To train officers as fleet ballistic missile navigation officers.

Instruction: Lectures and practical exercises in the functions of fleet ballistic missile navigation officers, including inertial navigation, transmission system, electronic and transistors, computers, ship's inertial navigation system and hardware description, marine differential analyzer, and navigational aspects of the FBM program and Navy system operational laboratory.

A-4E CNI/WEAPONS SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3744.
Location: Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 4-5 weeks (160-200 hours).
Exhibit Dates: 3/69-Present.
Objectives: To train maintenance personnel to operate and maintain the RA-5C flight control systems in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

Instruction: Lectures and practical exercises in the RA-5C flight control systems, including flight reference systems, flight control system components and operation.

A-4E CNI/WEAPONS SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3761.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 4 weeks (160 hours).
Exhibit Dates: 7/69-Present.
Objectives: To train maintenance personnel to operate and maintain the RA-5C flight control systems in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

Instruction: Lectures and practical exercises in the RA-5C flight control systems, including flight reference systems, flight control system components and operation.
COURSE EXHIBITS

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74).

NV-1715-0459
E-2A WEAPON SYSTEM SPECIALIST
E-2A WEAPON SYSTEM SPECIAL, No. 5
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 6-10 weeks (300-400 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train avionics technicians to maintain complete E-2A avionics systems and to use line-test equipment.
Instruction: Lectures and laboratories in conjunction to E-2A aircraft, ground equipment, in-flight performance monitor test sets, airborne tactical data systems, and allied electronics.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (4/74).

NV-1715-0460
E-2A AUTOMATIC FLIGHT CONTROL SYSTEM
AN/ASW-15) AND AIR DATA COMPUTER (A/242G-13)
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 2-3 weeks (80-120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train enlisted personnel who have had previous training in transistor fundamentals to operate and maintain automatic flight control systems and air data computers.
Instruction: Lectures and practical exercises in automatic flight control system operation, calibration, and maintenance; air data computer operation and maintenance; servo systems; utilization of test equipment; and maximum rudder and pitch feel system operation.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (4/74).

NV-1715-0461
C-2A AUTOMATIC FLIGHT CONTROL SYSTEM
AN/ASW-15) AND AIR DATA COMPUTER (A/242G-13)
INTERMEDIATE MAINTENANCE
Course Number: C-602-3552.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 3/71-Present.
Objectives: To provide maintenance personnel with training in intermediate-level maintenance, circuit analysis, and test procedures for PB-20N and PB-20F autopilot systems.
Instruction: Lectures and practical exercises in theory of operation of autopilot systems, power supplies, amplifiers, test equipment, bench testing, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

NV-1715-0462
P-3 PB-20N AUTOPilot SYSTEM
INTERMEDIATE MAINTENANCE
Course Number: C-602-3552.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 6 weeks (240 hours).
Exhibit Dates: 12/70-Present.
Objectives: Train enlisted personnel to maintain and align ASA-16 display groups at the intermediate-maintenance level.
Instruction: Lectures and practical exercises in display system operation and maintenance, accelerators, servo systems, and basic digital computers.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (4/74).

NV-1715-0463
P-3 AN/ASA-16 DISPLAY SYSTEM
INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 6 weeks (240 hours).
Exhibit Dates: 12/70-Present.
Objectives: To train enlisted personnel to maintain and align ASA-16 display groups at the intermediate-maintenance level.
Instruction: Lectures and practical exercises in display system operation and maintenance, accelerators, servo systems, and basic digital computers.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (4/74).

NV-1715-0464
UH-2A/B AUTOMATIC STABILIZATION SYSTEM ORGANIZATIONAL MAINTENANCE
(UH-2A/B AUTOMATIC STABILIZATION EQUIPMENT ORGANIZATIONAL MAINTENANCE)
(UH-2A/B AUTOMATIC STABILIZATION EQUIPMENT ORGANIZATIONAL MAINTENANCE)
Course Number: Not available.
Location: Air Maintenance Training Detachment, Lakehurst, NJ; Air Maintenance Training Detachment, Ream Field, CA.
Length: 3-5 weeks (120-200 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train maintenance personnel to operate and maintain the UH-2A/B's automatic stabilization equipment.
Instruction: Lectures and practical exercises in automatic stabilization equipment familiarization, troubleshooting procedures, and maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0465
RF-4B AN/ASG-74 NAVIGATION SYSTEM INTERMEDIATE MAINTENANCE
RF-4B INERTIAL NAVIGATION SYSTEM INTERMEDIATE MAINTENANCE
Course Number: C-102-3839.
Location: Air Maintenance Training Detachment, El Toro, CA.
Length: 6-9 weeks (240-360 hours).
Exhibit Dates: 1/68-Present.
Objectives: To ensure avionics technicians are able to test and repair AN/ASG-64A and AN/ASG-74 inertial navigation system components.
Instruction: Lectures and practical exercises in inertial navigation system circuit analysis, troubleshooting, and component repair, and utilization of applicable test equipment, publications, and procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74).

NV-1715-0466
TARTAR WEAPONS CONTROL SYSTEM
Course Number: Not available.
Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.
Length: 10 weeks (300 hours).
Exhibit Dates: 2/68-Present.
Objectives: To train avionics technicians who have had previous training in Tartar weapon control systems, missile, and launcher, data flow block diagrams, missile fire control systems, weapon direction equipment, and maintenance procedures.
Instruction: Lectures and practical exercises in Tartar weapon control systems, missile, and launcher, data flow block diagrams, missile fire control systems, weapon direction equipment, and maintenance procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0467
TERRIER/TARTAR GUIDED MISSILE AND LAUNCHER MAINTENANCE
Course Number: Not available.
Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.
Length: 23 weeks (690 hours).
Exhibit Dates: 2/68-Present.
Objectives: To train enlisted personnel to test and maintain Terrier and Tartar guided missiles, and to operate and maintain Terrier and Tartar guided missile test sets and associated test equipment.

Instruction: Lectures and laboratories in physical description and capabilities of Terrier and Tartar missile control systems, guidance radar, signal comparators, guided missile test sets, and radar test sets; casualty analysis and repair; and operation and maintenance of guided missiles.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

Course Number: Not available.

Location: Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Key West, FL.

Length: 2 weeks (80 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train maintenance personnel to maintain the E-2A AN/ASM-33A in-flight performance monitor.

Instruction: Lectures and practical exercises in the maintenance of the E-2A in-flight performance monitor AN/ASM-33A, including component analysis, oscilloscope components, terminal usage and associated circuits and power supply, and analysis of associated equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

NV-1715-0472

S-2/D/E MH-67 AUTO PILOT SYSTEM MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Key West, FL.

Length: 2 weeks (80 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train maintenance personnel to maintain the MH-67 A.F.C.S. autopilot system.

Instruction: Lectures and practical exercises in the maintenance of the MH-67 A.F.C.S. autopilot system, including basic gyroscopes, transistors, amplifiers and flight principles; equipment components and circuitry, synchronization and stabilization; and testing and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

NV-1715-0473

TERRIER WEAPON DIRECTION SYSTEM MK 7 (WDE MK 7)

Course Number: Not available.

Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.

Length: 26 weeks (836 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train enlisted personnel to perform as missile technicians on board Poseidon submarines.

Instruction: Lectures and laboratories in Poseidon missile, missile guidance, missile test and readiness equipment, guidance system test sets, associated test equipment, basic electronics, digital techniques, and operational amplifiers.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (4/74).

NV-1715-0474

E-2A AN/ASM-33A IN-FLIGHT PERFORMANCE MONITOR MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, North Island, CA.

Length: 4 weeks (160 hours).

Exhibit Dates: 10/67-Present.

Objectives: To train enlisted personnel to maintain the E-2A AN/ASM-33A In-Flight Performance Monitor at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance of the E-2A in-flight performance monitor AN/ASM-33A, including component analysis, oscilloscope components, terminal usage and associated circuits and power supply, and analysis of associated equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (4/74); in the upper-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0476

A-6 AVIONICS SYSTEMS ORGANIZATIONAL LEVEL MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Ocean, VA.

Length: 8-9 weeks (320-360 hours).

Exhibit Dates: 3/68-Present.

Objectives: To train avionics maintenance personnel to maintain and service the A-6 aircraft's avionics systems.

Instruction: Lectures and practical exercises in aircraft familiarization, search radar, track radar, inertial navigation systems, digital functioning, computer familiarization, computer line maintenance, system operation and troubleshooting, and organizational test equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0477

P-3 ASA-16 SYSTEM MAINTENANCE, NO. 20

Course Number: Not available.
1-210  COURSE EXHIBITS

Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.

Length: 6 weeks (240 hours).

Exhibit Dates: 4/68 - Present.

Objectives: To train maintenance personnel who have completed courses in transistor fundamentals and P-3 aircraft familiarization to maintain the ASA-16 display group of the P-3 aircraft.

Instruction: Lectures and practical exercises in the maintenance of the ASA-16 display group of the P-3 aircraft, including block-diagram analysis, components, circuit analysis, servomechanisms, radar set adapter, electronic gate generator, various subsystems, range and bearing functions, power distribution, alignment procedures, and basic computer elements of the system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hour in electronics laboratory (4/74).

NV-1715-0480

BASIC ELECTRONICS ORIENTATION

Course Number: D-100-015.

Location: Fleet Airborne Electronics Training Unit, Norfolk, VA; Fleet Airborne Electronic Training Unit, Jacksonville, FL.

Length: 6 weeks (180 hours).

Exhibit Dates: 7/66 - 12/68.

Objectives: To train maintenance personnel in basic electronics.

Instruction: Lectures in AC and DC circuit theory; mathematics review; physics of atomic structure; vacuum tube and transistor theory; and special test equipment usage, including meters, signal generators, and oscilloscopes.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68).

NV-1715-0481

1. BASIC AIRBORNE RADIO COMMUNICATIONS OPERATOR

2. AIRBORNE RADIO COMMUNICATIONS OPERATOR (ARCO)

Course Number: Version 1: D-201-0010.

Version 2:

Version 1: D-201-0010.

Location: Fleet Airborne Electronics Training Unit, Jacksonville, FL; Fleet Airborne Electronics Training Unit, Brunswick, ME.


Objectives: To train enlisted personnel to be airborne radio communications operators.

Instruction: Lectures and laboratory exercises in international Morse code, communications publications, naval communications procedures, electronic equipment safety precautions, naval patrol aircraft power supply and communications systems operation and in-flight maintenance procedures, and teletypewriter and radiotelephone operating procedures.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in radio operation or two-way communications (6/75). Version 2: In the upper-division baccalaureate category, credit in electronics on the basis of institutional examination (4/74).

NV-1715-0482

AN/SPN-10 OPERATOR

Course Number: D-2G-010; D-222-010.

Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA; Naval Air Station, Patuxent River, MD.

Length: 4 weeks (120 hours).

Exhibit Dates: 1/66 - 12/68.

Objectives: To train enlisted personnel to operate automatic, carrier landing system equipment.

Instruction: Lectures and practical exercises in AN/SPN-10 automatic, carrier landing system equipment. Operational capabilities and limitations, aircraft equipment requirements, subsystems and associated support equipment introduction, preoperative procedures and subsystem checks, operator maintenance, emergency procedures and safety precautions, and operational training on the AN/MPS-T1 console and subsystems.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0483

AN/SPN-122 MAINTENANCE TRAINING (AN/SPN-122 DOPPLER NAVIGATION SYSTEM MAINTENANCE)

Course Number: D-102-014.

Location: Fleet Airborne—Electronics Training Unit, Atlantic, Norfolk, VA.

Length: 3 0 105 weeks (Norfolk, VA hours).

Exhibit Dates: 11/63 - 12/68.

Objectives: To train maintenance personnel to conduct preventive and corrective maintenance on AN/SPN-122 Doppler radar navigation equipment.

Instruction: Lectures in AN/SPN-122 Doppler radar navigational equipment, including theory of operation; block diagram and circuit analysis; troubleshooting and maintenance techniques; test equipment usage; pre-amp, signal data converter, and ground speed computer alignment, and trouble analysis, isolation and repair.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1715-0484

AN/APS-20E MAINTENANCE TRAINING (AN/APS-20E RADAR SYSTEM MAINTENANCE)

Course Number: D-102-015.

Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.

Length: 6 weeks (120 hours).

Exhibit Dates: 11/63 - 12/68.

Objectives: To train electronics maintenance personnel to maintain the AN/APS-20E radar.

Instruction: Lectures on AN/APS-20E radar, including theory of operation, system description, low-voltage 'power' supply, ground speed computer alignment, transmitter, duplexer, radar receiver, antenna, and operator indicators, and practical applications, including equipment operation, alignment, and troubleshooting.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1715-0485

AN/APS-380 MAINTENANCE TRAINING (AN/APS-380 RADAR SYSTEM MAINTENANCE)

Course Number: D-102-016.

Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.

Length: 3 weeks (90 hours).

Exhibit Dates: 11/63 - 12/68.
Objectives: To train electronics maintenance personnel to maintain the AN/APS-38B radar.

Instruction: Lectures and practical exercises in AN/APS-38B radar system operation, including description and function of equipment, circuit analysis, and operating procedures and techniques; and practical application, including equipment operation, alignment, component location, associated test equipment usage, and trouble location.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1715-0486

AN/ARC-38A MAINTENANCE TRAINING
(AN/ARC-38A SSb Transceiver Maintenance)

Course Number: D-102-021.
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 4 weeks (120 hours).
Exhibit Dates: 6/64-12/68.

Objectives: To train electronics maintenance personnel to maintain AN/ARC-38A radio navigation equipment.

Instruction: Lectures and practical exercises in AN/ARC-38A radio navigation equipment operation, including receiver-transmitter, antenna coupler, teletype, and signal data converter; and practical application, including equipment operation, component location, test equipment usage, alignment procedures, and troubleshooting.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1715-0487

AN/ARN-21D TACAN NAVIGATION SET MAINTENANCE
(AN/ARN-21D-TACAN Receiver Maintenance)

Course Number: D-102-024.
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/66-12/68.

Objectives: To train maintenance personnel to operate, adjust, and troubleshoot AN/ARN-21D navigational radio equipment.

Instruction: Lectures and practical experience in AN/ARN-21D navigational radio equipment operation, basic electronics and circuit theory, component failure, system analysis, and system adjustment and alignment procedures.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1715-0488

AN/ASA-16 DATA DISPLAY GROUP MAINTENANCE TRAINING

Course Number: D-102-026.
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 4 weeks (120 hours).
Exhibit Dates: 3/64-12/68.

Objectives: To train electronics maintenance personnel to maintain the AN/ASA-16 data display group.

Instruction: Lectures and practical exercises in AN/ASA-16 data display group theory of operation, including block-diagram and circuit analysis; equipment operation, calibration, and component location; special test equipment usage and trouble location.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0489

0 AN/ARC-94 SINGLE SIDE BAND TRANSCEIVER MAINTENANCE

Course Number: D-102-030.
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 3 weeks (90 hours).
Exhibit Dates: 1/66-12/68.

Objectives: To train electronics maintenance personnel to maintain the AN/ARC-94 system.

Instruction: Lectures in AN/ARC-94 operation, associated test equipment usage, and alignment techniques, troubleshooting procedures.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1715-0490

ALTERNATING CURRENT POWER SYSTEMS

Course Number: D-602-011.
Location: Fleet Airborne Electronics Training Unit Detachment, Jacksonville, FL.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/66-12/68.

Objectives: To train aviation electricians to maintain, analyze, and isolate malfunctions in aircraft electrical systems.

Instruction: Lectures and practical exercises in alternating current theory, power systems, components, electron and magnetic principles, DC current theory review, various types of electronic transformers, and description, components, and troubleshooting procedures for brush, brushless, and emergency generator systems.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (12/68).

NV-1715-0493

AN/APN-121(V) RADIO ALTIMETER (LOW LEVEL) INTERMEDIATE MAINTENANCE

Course Number: Not Available.
Location: Air Maintenance Training Detachment, Quonset Point, RI; Air Maintenance Training Detachment, Imperial Beach, CA.
Length: 3 weeks (96 hours).
Exhibit Dates: 3/71-Present.

Objectives: To train maintenance personnel to operate and maintain the AN/APN-171(V) radio altimeter system.

Instruction: Lectures and practical exercises in the maintenance and operation of the AN/APN-171(V) radio altimeter system, including block-diagram analysis, transmitter, receiver, and range detection; output circuits; and testing and alignment.

Credit Recommendation: In the vocational certificate category, credit in electronics laboratory on the basis of institutional examination (4/74).

NV-1715-0495

TRADESMAN R (REPAIRMAN) CLASS A

Course Number: Not Available.
Location: Air Technical Training Center, Memphis, TN.
Length: 17 weeks (680 hours).
Exhibit Dates: 6/64-10/68.

Objectives: To train enlisted personnel to install, operate, maintain and repair training devices used in gunnery, aviation, and electronics instruction.

Instruction: Lectures and practical exercises in training devices operation, maintenance, and repair, including AC fundamentals, resonant circuits, vacuum tubes, audio amplifiers, rectifiers, filters, radiators, audio receiver theory, time constants, pulse and wave-shaping circuits, audio transducers, optical and electronic devices, synchro fundamentals, servomechanisms, vacuum and mechanical systems (Link Trainer [CA-1]), and troubleshooting and alignment procedures.

Credit Recommendation: In the vocational certificate category, 9 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electronics laboratory on the basis of institutional examination (4/74).

NV-1715-0497

1. TRADESMAN, CLASS A
2. TRADESMAN SCHOOL, CLASS A
3. CLASS A TRADESMAN SCHOOL

Location: Air Technical Training Center, Memphis, TN.

Objectives: To train enlisted personnel to install, operate, maintain, and repair training devices used in gunnery, aviation, and electronics instruction.

Instruction: Lectures and practical exercises in training devices fundamentals, including applied physics, introduction to analog computer basics, flight theory and performance introduction, basic jet instrument training, basic navigation principles, radar aids to navigation, and flight simulator maintenance.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in electricity or electronics (4/74) in the lower-division baccalaureate/associate degree category, credit in electricity or electronics on the basis of institutional examination (4/74). Version 2: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, credit in electricity on the basis of institutional examination (4/74).
I-212 COURSE EXHIBITS

AVIATION ELECTRONICS INTELLIGENCE, CLASS O/C

Course Number: Not available.
Location: Air Technical Training Center, Glynco, GA.
Length: 7 weeks (280 hours).

Exhibit Dates: 12/65-12/66.

Objectives: To train flight officers and enlisted personnel qualified as aircrewmembers to operate electronic counters’countermeasures and electronic counter-countermeasures systems.

Instruction: Lectures and practical exercises in the operational functions associated with electronic counters’countermeasures and electronic counter-countermeasures systems, including general electronic warfare information, ECM equipment, radar processing procedures, in-flight training, basic receiver and oscilloscope principles, and operation of associated equipment.

Credit Recommendation: Insufficient data for evaluation (4/74).

E-1B ELECTRONIC SYSTEMS ORGANIZATION - MAINTENANCE

(E-1B INTEGRATED ELECTRICAL SYSTEM ORGANIZATIONAL MAINTENANCE)

Course Number: C-600-3457; C-602-3457.
Location: Air Maintenance Training Detachment, Norfolk, VA; Air Maintenance Training Detachment, North Island, CA.
Length: 3-4 weeks (120-160 hours).

Exhibit Dates: 11/72-Present.

Objectives: To train fleet maintenance personnel to maintain and operate the E-1B radar, communication, and navigation electronic systems.

Instruction: Lectures and practical exercises in the maintenance and operation of the E-1B radar, communication, and navigation electronic systems, including theory of radar principles; block-diagram analysis of transmitters, RF circuits; and computer and control circuits; radar system associated equipment; and IFP systems operation.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (4/74). Version 2: In the vocational certificate category, 3 semester hours in radar or HF circuits (4/74).

F-43 DATA LINK SYSTEM INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Air Technical Training Center, Glynco, GA.
Length: 3 weeks (120 hours).

Exhibit Dates: 6/71-Present.

Objectives: To train maintenance personnel who have completed courses in transistor and digital fundamentals to maintain and operate the F-43 data link system.

Instruction: Lectures and practical exercises in the operation and maintenance of the F-43 data link system, including review of digital mathematics, logic circuits and functions; system evaluation by functional block description; descriptive theory of system components; measurement generator and display; discrete indicators; and radar indicator.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory, and additional credit in electrical laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0504

AN/APN-153(V) DOPPLER RADAR NAVIGATION SYSTEM INTERMEDIATE MAINTENANCE

Course Number: C-102-3041.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Kingsville, TX, Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Beaufort, SC; Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, Quonset Point, RI.
Length: 5-6 weeks (200-240 hours).

Exhibit Dates: 8/69-Present.

Objectives: To train fleet maintenance personnel who have backgrounds in electronics and digital fundamentals to maintain the AN/APN-153(V) Doppler radar system.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/APN-153(V) Doppler radar system, including circuit analysis of transmitters, logic systems, modulator assemblies, high-voltage power supplies, digital frequency control assembly, antenna indicators, use of oscilloscopes, frequency counters, VTVM, sweep generator, audio oscillator, and signal generator; and repair techniques for system subassemblies.

Credit Recommendation: Insufficient data for evaluation (4/74).

NV-1715-0505

B-2B OA-8206/ASA-27A DIFFERENCE ORGANIZATIONAL MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: Version 1: 3 weeks (120 hours). Version 2: 4 weeks (176 hours).


Objectives: To train E-2A weapons system specialists to maintain and operate the E-2B OA-8206/ASA-27A computer.

Instruction: All Versions: Lectures and practical exercises in general-purpose computer system, auxiliary computer operating equipment and interface systems, control processor and RAM, input/output operation, timing circuits, control units, displays, operating principles, and maintenance procedures. Version 1: Includes logic circuits and mechanization.
Credit Recommendation: Insufficient data for evaluation (4/74).

NV-1715-0509
INACTIVE DUTY RESERVE COMBAT INFORMATION CENTER (CIC) CLASS—BASIC, SUPERVISORY AND OFFICER TEAM TRAINING
Course Number: Not available.
Location: Air Technical Training Center, Glyco, GA.
Length: 2 weeks (112 hours).
Exhibit Dates: 1/73-74.
Objectives: To train inactive-duty reserve personnel to operate shipboard combat information centers.
Instruction: Lectures and practical exercises in the operation of shipboard combat information centers, including introductory electronics, electronic warfare, search and rescue, communications, ASW operations, surface tactics, anti-air warfare, and geographic plots, and naval combat operations.
Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1715-0510
ELECTRONICS TECHNICIAN AN/SPA-25 INDICATOR GROUP CLASS C MAINTENANCE
Course Number: A-104-014; A-104-015.
Location: Electronics Technician, Class C School, San Diego, CA; Electronics Technician, Class C School, Norfolk, VA.
Length: 2 weeks (60 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train enlisted personnel to operate and maintain the AN/SPA-25 indicator group and to use associated test equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of the AN/SPA-25 indicator group and the use of associated test equipment, including location and identification of units, assemblies, and subsystems; timing system, sweep circuitry, system gear train, power supply, and intensity modulator circuit analyses; and planned maintenance and maintenance data collection systems.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electrical laboratory (4/74); in the upper-division baccalaureate category, 1 semester hour in basic electrical laboratory (4/74).

NV-1715-0511
P-3 AN/APX-7 RADAR RECOGNITION SYSTEM INTERMEDIATE MAINTENANCE
Course Number: C-102-3533.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 12/70-74.
Objectives: To train maintenance personnel with a basic knowledge of transistor theory to operate and maintain the AN/APX-7 radar recognition system.
Instruction: Lectures and practical exercises in the operation and maintenance of the AN/APX-7 radar recognition system, including functional block diagrams, circuit analysis, transmitting system, subsystems, power monitor and supplies, set control, and troubleshooting and alignment procedures.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (4/74).

NV-1715-0512
TARTAR RADAR SET AN/SPG-51C AND ASSOCIATED EQUIPMENT INTERMEDIATE MAINTENANCE
Course Number: A-104-0119.
Location: Guided Missiles School, Dam Neck, VA.
Length: 26 weeks (763 hours).
Exhibit Dates: 1/70-74.
Objectives: To train fire control technicians to operate and maintain the AN/SPG-51C radar set.
Instruction: Lectures and practical exercises in the maintenance and operation of the AN/SPG-51C radar set, including use of specialized test equipment, AC and DC power supplies, digital theory, block diagrams of track radar components, various circuits, data flow, missle guidance, signal comparator, and alignment, calibration, troubleshooting, and repair techniques.
Credit Recommendation: In the vocational certificate category, 6 semester hours in basic electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electrical laboratory (4/74); in the upper-division baccalaureate category, 1 semester hour in basic electrical laboratory (4/74).

NV-1715-0513
AN/ARQ-126 RADAR SET SPECIAL SUPPORT EQUIPMENT INTERMEDIATE MAINTENANCE
Course Number: C-102-3797.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/70-74.
Objectives: To train maintenance personnel to operate and maintain the AN/ARQ-126 radar set special support equipment.
Instruction: Lectures and practical exercises in the maintenance of the AN/ARQ-126 radar set special support equipment, including introduction to, and circuit analysis of, the interconnecting power supply, control indicator, relay, assembly, and adapter boxes, circuit analysis of various generators, circuit analysis of module, antenna/receiver, and antenna boresight test sets, and alignment, troubleshooting, and check-out procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics, and additional credit in electronics on the basis of institutional examination (4/74).

NV-1715-0514
A-6 AN/APQ-92 RADAR ANTENNA RECEIVER AND ASSOCIATED TEST SET INTERMEDIATE MAINTENANCE
Course Number: C-102-3773.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Ocean, VA.
Length: 2 weeks (80 hours).
Exhibit Dates: 10/71-74.
Objectives: To train maintenance personnel who have background in electronics and maintenance of specific search radar systems to maintain and repair the AN/APQ-92 search radar antenna/receiver and associated equipment.
Instruction: Lectures and practical exercises in the maintenance of the AN/APQ-92 search radar antenna/receiver and associated equipment, including use of block diagrams and signal tracing in system fault diagnosis and correction, function and analysis of terrain clearance, microwave and radiating, search receiving, and AFC and local oscillator groups; test set operation and components, and search receiver check-out and repair.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (4/74).

NV-1715-0515
AN/ASQ-178 INTEGRATED ELECTRONICS CENTRAL INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 12/69-74.
Objectives: To train maintenance personnel to maintain and repair the AN/ASQ-178 integrated electronics central.
Instruction: Lectures and practical exercises in the maintenance and repair of the AN/ASQ-178 integrated electronics central, including operation of IFF systems, transmitter and receiver operation, power supply and distribution, automatic radar direction finder, associated coders, and troubleshooting and adjustment procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics, and additional credit in electronics on the basis of institutional examination (4/74).

NV-1715-0516
AN/APS-115 SEARCH RADAR SYSTEM INTERMEDIATE MAINTENANCE
Course Number: C-100-3571.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 2/73-74.
Objectives: To train fleet maintenance personnel to operate and maintain the AN/APS-115 radar system.
1-214 COURSE EXHIBITS

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/APS-115 radar system, including theory of operation, equipment, and systems components, including practical exercise in control, maintenance, and troubleshooting procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional examination (4/74).

NV-1715-0517
V/STMR SENSOR OPERATOR 2S2
Course Number: D-210-0010
Location: Specialized Operational Training Group, Quonset Point, RI
Length: 6 weeks (210 hours)
Exhibit Dates: 10/77-2/78
Objectives: To train maintenance personnel to perform the necessary control and maintenance activities in the V/STMR aircraft. Lectures and practical exercises in the operation of the V/STMR equipment, including theory of operation, block diagram analysis, components, and operation of control boxes, antenna, and receiver-transmitter, and alignment and troubleshooting procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional examination (4/74).

NV-1715-0518
AN/ARN-52(V) TACAN RECEIVER INSTRUCTIONAL COURSE
Course Number: C-102-3034
Location: Air Maintenance Training Detachment, Meridian, MS; Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Key West, FL; Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, Imperial Beach, CA; Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, El Toro, CA.
Length: 5 weeks (120 hours)
Exhibit Dates: 5/68-9/72
Objectives: To train maintenance personnel in the operation and maintenance of the AN/ARN-52(V) TACAN receiver. Lectures and practical exercises in the theory of operation, block diagrams, and maintenance of the receiver, including theory of operation, circuit analysis, and troubleshooting procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic maintenance (4/74); in the lower-division baccalaureate/associate degree category, credit in electronic equipment maintenance on the basis of institutional examination (4/74).

NV-1715-0520
5"/54 RAPID FIRE GUN AND MOUNT MK 42 MODS 7 AND 8, CLASS C
(GUN MOUNT 5"/54 MK 42 MOD 8)
Course Number: A-113-0029
Location: Service School Command, Great Lakes, IL
Length: 19 weeks (570 hours)
Exhibit Dates: 1/67-12/68
Objectives: To train gunner's mates to operate and maintain advanced gun systems. Instruction: Lectures and practical exercises in the operation and maintenance of the gun and mount, including theory of operation, block diagrams, and troubleshooting procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic maintenance (4/74); in the lower-division baccalaureate/associate degree category, credit in electronic equipment maintenance on the basis of institutional examination (4/74).

NV-1715-0521
AN/ARN-52(V) TACAN RECEIVER INSTRUCTIONAL COURSE
Course Number: C-102-3034
Location: Air Maintenance Training Detachment, Sanford, FL
Length: 12 weeks (480 hours)
Exhibit Dates: 1/68-Present
Objectives: To train maintenance personnel to operate and maintain the AN/ARN-52(V) TACAN receiver. Instruction: Lectures and practical exercises in the servicing, maintenance, and modification of the AN/ARN-52(V) TACAN receiver, including introductory navigation and auto navigation techniques and systems components, video scanners, radar techniques, antenna equipment, antenna computer elements, all-weather and visual modes, and overall system analysis.
Credit Recommendation: In the vocational certificate category, 5 semester hours in aircraft navigation systems (4/74).

NV-1715-0522
AVIATION ELECTRONICS OFFICERS, CLASS C
Course Number: Not available
Location: Air Technical Training Center, Memphis, TN
Length: 40 weeks (1420 hours)
Exhibit Dates: 4/57-12/68
Objectives: To train aviation ground officers or aviators and warrant officers to supervise electrical and electronic maintenance activities.
Instruction: Lectures and practical exercises in the supervision of electrical and electronic maintenance activities, including basic electricity and electronics theory, introduction to radar, avionics systems operation, administrative procedures, and automatic flight control and special systems.
Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity, 3 in electronics, 3 in electronic systems, 6 in electronic systems laboratory (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electricity and electronics, 5 in engineering electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in basic electricity and electronics, 3 in electronics laboratory (4/74).

NV-1715-0523
ELECTRONICS TECHNICIAN, CLASS C
WIDEBAND SYNTHESIZED INDEPENDENT SENDER RECEIVER
Course Number: A-101-039
Location: Naval Training Center, Great Lakes, IL
Length: 4 weeks (160 hours)
Exhibit Dates: 5/68-12/68
Objectives: To train electronic technicians and radiomen to operate and maintain the AN/FRR-60(V) model DMR-5M synthesized independent sideband receiver and ancillary equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of the AN/FRR-60(V) model DMR-5M synthesized independent sideband receiver and ancillary equipment, including introduction to electronic systems, receiver equipment, circuit analysis, the 3M system, component analysis, and power supplies.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, credit in laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate...
reate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0524
AN/SPS-52 RADER SET
Course Number: Not available.
Location: Naval Schools Command, Mare Island, CA.
Length: 8 weeks (840 hours).
Exhibit Dates: 2/68-Present.
Objectives: To train enlisted personnel to operate and maintain the AN/SPS-52 radar set.
Instruction: Lectures and practical exercises in the operation and maintenance of the AN/SPS-52 radar set, including system capabilities and function, block-diagram analysis, digital computer troubleshooting procedures, power distribution system, major units of the Tartar weapons system, other radar and missile systems operations, detailed description of mathematics, operation of test equipment, and functional description of the digital-to-analog converter.
Credit Recommendation: In the vocational certificate category, 3 semester hours in digital logic (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in digital logic on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0525
A3B, RA3B, E3A3 AN/ALQ-35 DECM SYSTEM MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train fleet personnel to maintain the AN/ALQ-35 electronics countermeasures system and associated special support equipment at the intermediate level.
Instruction: Lectures and practical exercises in the maintenance of the AN/ALQ-35 electronics countermeasures system and associated special support equipment, including brief review of radar and electronic countermeasures, functional description of the system and all component subsystems, use of standard and specialized electronic test equipment, and alignment, troubleshooting, and repair procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic equipment maintenance (4/74).

NV-1715-0526
TERRIER RADER SET AN/SPG-55B MOD 5
Course Number: A-104-0091; A-104-0092.
Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.
Length: 30 weeks (900–1073 hours).
Exhibit Dates: 2/68-Present.
Objectives: To train fire control technicians to maintain the AN/SPG-55B radar system and to use associated test equipment for evaluation of system performance.
Instruction: Lectures and practical exercises in the maintenance of the AN/SPG-55B radar system and the use of associated test equipment for evaluation of system performance, including organization of radar systems, general radar principles and circuits, analysis of system components, track radiation, track receiver, range and angle tracking, pulsed radar monitoring, signal flow, electronic counter-countermeasures, and troubleshooting.
Credit Recommendation: In the vocational certificate category, 15 semester hours in electronic equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic laboratory, and 2 additional credits in electronic laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in electronic laboratory on the basis of institutional examination (4/74).

NV-1715-0527
E-2A AN/ASQ-52 DATA COMMUNICATION SYSTEM SPECIAL SUPPORT EQUIPMENT INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train electronics maintenance personnel to service the AN/ASQ-52 data communications system's special support equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of the AN/ASQ-52 data communications system's special support equipment, including block- and logic-diagram analyses of digital computer communications system test equipment, modes of operation, power supply, high-speed line test set components and operation, various module analyses, and testing procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in digital computer communication equipment (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in digital communication equipment on the basis of institutional examination (4/74).

NV-1715-0528
AN/ALQ-51A COUNTERMEASURES SET
Course Number: Not available.
Location: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment Sanford, FL; Air Maintenance Training Detachment Lemoore, CA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Miramar, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 6/72-Present.
Objectives: To train fleet maintenance personnel in AN/ALQ-51A countermeasures system theory and maintenance procedures.
Instruction: Lectures and practical exercises in the maintenance of the AN/ALQ-51A countermeasures set, including block-diagram analysis, program operation, video display, system performance, system troubleshooting, computer system maintenance, computer control, digital computer troubleshooting, field failure, and computer control and troubleshooting procedures.
Credit Recommendation: In the vocational certificate category, 7 semester hours in electronic equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic equipment maintenance (4/74).

NV-1715-0529
AN/ASM-398 PROJECTED MAP DISPLAY SET (PMD) INTERMEDIATE MAINTENANCE
Course Number: C-150-3783.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 5 weeks (200 hours).
Exhibit Dates: 9/72-Present.
Objectives: To train electronics maintenance personnel to service AN/ASM-398 projected map display sets.
Instruction: Lectures in AN/ASM-398 projected map display set servicing, including analog and digital-circuit theory and operation, basic logic theory and microcircuity, publications, programming description and procedures, self-check, and associated test equipment operation.
Credit Recommendation: In the vocational certificate category, 3 semester hours in digital computer hardware (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital computer hardware, and additional credit in digital computer hardware on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in digital computer hardware on the basis of institutional examination (4/74).

NV-1715-0530
A-6 SEARCH RADAR MODULE ANALYZER TEST CONSOLE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 10 weeks (400 hours).
Exhibit Dates: 6/68-Present.
Objectives: To train maintenance personnel to operate and maintain circuit/system module-level test and repair facilities for search radar sets.
Instruction: Lectures and practical exercises in circuit and functional analysis of search radar system modules, including a variety of circuit types and modes of operation, and troubleshooting, maintenance, and repair procedures using standard and specialized electronic test equipment.
Credit Recommendation: In the vocational certificate category, 7 semester hours in electronic equipment maintenance (4/74); in the lower-division baccalaureate/associ-
sociate degree category, credit in electronics equipment maintenance on the basis of institutional examination (4/74).

NV-1715-0531

RADIO TRANSCEIVER AN/WRC-1 FAMILY
(AN/URT-23(V) RADIO TRANSMITTER MAINTENANCE)

Course Number: A-101-0109; F-101-0027; L-101-0039
Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Fleet Ballistic Missile Submarine Training Center, Charleston, SC.
Length: 4 weeks (120 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train electronics technicians and radiomen to operate and maintain the AN/URT-23(V) transmitter.
Instruction: Lectures and practical exercises in the operation function and location of test points and subassemblies including block diagrams and schematics for signal tracing analysis of RF, IF, audio and power amplifiers, balance modulator, oscillators, keying circuits, power Supplies, power distribution, and monitoring circuits. Preventive maintenance, alignment, troubleshooting and corrective maintenance procedures to replace defective vacuum tubes are given. Note: In April 1975 course was modified to include the AN/WRC-1 radio receiver and power amplifier subsystem.
Credit Recommendation: In the vocational certificate category, 2 semester hours in transmission and repair and maintenance (4/77).

NV-1715-0532

BASIC ELECTRICITY AND ELECTRONICS FOR TORPEDOMAN'S MATE

Course Number: K-123-571.
Location: Fleet Anti-Submarine Warfare School, San Diego, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 5/64/12/68.
Objectives: To train enlisted personnel to use, understand electricity, electronic devices, and standard test equipment.
Instruction: Lectures and practical exercises in the use of electricity, electronic devices, and standard test equipment, including basic electricity principles; vacuum tube electronics; introduction to transmitters, receivers, and component subsystems; and electronic test equipment.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity and electronics (4/74); in the lower-division baccalaureate associate degree category, 4 semester hours in electricity and electronics (4/74); in the upper-division baccalaureate associate degree category, 2 semester hours in electricity and electronics (4/74).

NV-1715-0533

P-3C COMMUNICATION/NAVIGATION ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3591.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 9 weeks (360 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train fleet maintenance personnel who have had previous training in basic electronics to operate, test, and troubleshoot the P-3C communications and navigation systems.
Instruction: Lectures and practical exercises in the operation, testing, and troubleshooting of the P-3C communications and navigation radar, radar altimeters, radio navigation systems, teletype, teleprinter, digital data link, and computer general information.
Credit Recommendation: In the vocational certificate category, 6 semester hours in communications and systems maintenance (4/74); in the lower-division baccalaureate associate degree category, credit in communications and systems maintenance on the basis of institutional examination (4/74).

NV-1715-0534

AN/ASN-50 ATTITUDE HEADING REFERENCE SYSTEM INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Imperial Beach, CA; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Key West, FL.
Length: 2 weeks (80 hours).
Exhibit Dates: 9/70-Present.
Objectives: To train technical maintenance personnel to operate and maintain the attitude-heading reference system.
Instruction: Lectures and practical exercises in the operation and maintenance of the attitude-heading reference system, including special and general test equipment, component operation, and testing and repair procedures.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics on the basis of institutional examination (4/74).

NV-1715-0535

MK 84 FIRE CONTROL SYSTEM TECHNICIAN

Course Number: A-121-0015.
Location: Guided Missiles School, Dam Neck, VA.
Length: 26–28 weeks (901–945 hours).
Exhibit Dates: 1/65–Present.
Objectives: To train maintenance personnel to maintain missile fire control systems.
Instruction: Lectures and practical experience in fire control systems maintenance, including digital system operation and functional analysis, software and hardware, naval operations with Mk 84 fire control systems, and operational and maintenance procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics on the basis of institutional examination (4/74).

NV-1715-0536

AVIATION ANTISUBMARINE WARFARE OPERATOR, CLASS A

Course Number: C-210-2010.
Location: Air Technical Training Center, Memphis, TN.
Length: 12 weeks (383–460 hours).
Exhibit Dates: 5/72–Present.
Objectives: To provide service personnel with training in the fundamentals of antisubmarine warfare.
Instruction: In all versions: Lectures and practical exercises in electricity and electronics, AC and DC fundamentals, block-diagram analysis of ASW systems, and use, maintenance, and repair of ASW equipment. Version 2: In addition includes electronic devices and systems.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate associate degree category, 2 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional examination (4/74). Version 2: In the vocational certificate category, 3 semester hours in electricity or electronics, 2 in electrical laboratory (4/74); in the lower-division baccalaureate associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0537

AVIATION/FIRE CONTROL TECHNICIAN, CLASS A

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 11 weeks (440 hours).
Exhibit Dates: 6/66–12/68.
Objectives: To train graduates of the Avionics Fundamentals School to operate fire control equipment.
Instruction: Lectures and practical exercises in weapon system radar fundamentals, including alignment and troubleshooting techniques, basic test equipment, synchrons and servos, gyroscopes, magnetic amplifiers, and accelerometers; transmitters, receivers, antennas, and power supplies; analog and digital computer operation and maintenance; and airborne weapon system radars, maintenance, bomb director systems, and safety precautions.
Credit Recommendation: In the vocational certificate category, 3 semester hours in radar principles, 1 in analog computers, 1 in digital computer fundamentals (4/74); in the lower-division baccalaureate associate degree category, 2 semester hour in radar principles, 1 in analog computers, 1 in digital computer fundamentals, and, on the basis of institutional examination, additional credit in radar principles (4/74); in the upper-division baccalaureate category, 1 semester hour in digital computer fundamentals, and 1 in analog computers on the basis of institutional examination (4/74).
NV-1715-0540
AN/ASQ-56A INTEGRATED ELECTRONICS
CENTRAL AND RELATED SYSTEMS
INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 7 weeks (280 hours).
Exhibit Dates: 9/67-Present.

Objectives: To train maintenance personnels to operate and maintain AN/ASQ-56A integrated electronic control systems.

Instruction: Lectures and practical exercises in AN/ASQ-56A electronic control equipment operation and maintenance, including UHF transmitters, receivers, amplifiers, filters, antennas, and controls; IF/RF systems; power supply operation; TACAN system operation and maintenance; AGC and video circuits; block diagram and circuit analysis; and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in flight control simulator and flight control test equipment (4/74).

NV-1715-0541
AVIATION SUPPORT EQUIPMENT MOBILE ELECTRIC POWER PLANT
INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Norfolk, VA; Air Maintenance Training Detachment, North Island, CA.
Length: 3 weeks (96 hours).
Exhibit Dates: 2/68-Present.

Objectives: To train military personnel to maintain mobile electric power plants and control systems.

Instruction: Lectures and practical exercises in DC generator system, including component repair, power system circuit analysis, and inspection and troubleshooting procedures; AC generator system, including part control circuit components, circuit analysis and troubleshooting procedures; and AC transistorized generator system, including circuit control components, circuit analysis, power supply, component repair, and inspection and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic electricity and electronics (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity, including Ohm's law, Simpson 260 multi-meter operation, series and parallel circuits, relay principles, and schematic reading; basic electronics, including resistors, transistors, inductance, capacitance, electron tube introduction, power supplies filtering and regulation, amplifiers, oscillators, and coupling and tuned circuits; and transistors, including junction transistors, basic transistor circuits, semiconductors, circuits schematic tracing, special maintenance considerations, and test equipment.

NV-1715-0543
RA-SC PHOTO SYSTEMS ELECTRONICS
Course Number: Not available.
Location: Naval School, Treasure Island, CA; Naval School, Great Lakes, IL.
Length: 28-38 weeks (980-1330 hours).
Exhibit Dates: 7/62-12/68.

Objectives: To train enlisted personnel to maintain RA-SC photo systems electronics equipment.

Instruction: Lectures and practical exercises in AC and DC fundamentals and analysis; oscilloscope applications; pulse techniques; microwave techniques and control equipment; and electronic devices, including tubes and solid state, communications transmitters and receivers, teletype terminal and single-sideband equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity or radio electronics for the 28-week course, 22 in physics (electricity) and engineering electronics for the 38-week course (4/74).

NV-1715-0544
COMMUNICATIONS TECHNICIAN (M), CLASS A
Course Number: Not available.
Location: Naval School, Treasure Island, CA; Naval School, Great Lakes, IL.
Length: 11 weeks (385 hours).
Exhibit Dates: 1/72-1/75.

Objectives: To train operational communications technicians, to operate automatic and repair automatic telephone systems.

Instruction: Lectures and practical exercises in automatic telephone system operation, maintenance, and repair, including troubleshooting line circuits, multilined systems installation and troubleshooting, telephony circuits, circuit tracing, wiring, line finder and finder controls analysis, connector trouble analysis and test set operation, various line dial telephone systems operation, power equipment, and switches and relays.

Credit Recommendation: In the vocational certificate category, 6 semester hours in telephone repair, installation and maintenance (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in telephone repair, installation and maintenance, and additional credits in telephone repair, installation and maintenance on the basis of institutional examination (4/74).

NV-1715-0545
RADIAC INSTRUMENT MAINTENANCE
Course Number: A-670-0020.
Length: Version 1: 5 weeks (82 hours). Version 2: 4 weeks (90 hours).

Objectives: To train enlisted personnel to be radiac technicians.

Instruction: Lectures and practical exercises in operation, maintenance, and repair of radiac equipment, including dosage hazards; radiological monitoring and decontamination; basic nuclear physics; radiac computer indicator, detector, and calibrator maintenance; radioactive sources leak testing; atomic energy commission license requirements; electronics review; and standard test equipment operation.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in radiation equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in radiation equipment maintenance, and credit in physics laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0546
AUTOMATIC TELEPHONES, CLASS C
Course Number: A-623-0014.
Location: Training Center, Great Lakes, IL.
Length: Not available.
Exhibit Dates: Not available.

Objectives: To train enlisted personnel to maintain automatic telephone systems.

Instruction: Lectures and practical exercises in automatic telephone system operation, maintenance, and repair, including troubleshooting line circuits, multilined systems installation and troubleshooting, telephony circuits, circuit tracing, wiring, line finder and finder controls analysis, connector trouble analysis and test set operation, various line dial telephone systems operation, power equipment, and switches and relays.

Credit Recommendation: In the vocational certificate category, 6 semester hours in telephone repair, installation and maintenance (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in telephone repair, installation and maintenance, and additional credits in telephone repair, installation and maintenance on the basis of institutional examination (4/74).
NV-1715-0547
RA-S3 SEMI-AUTOMATIC TEST EQUIPMENT
BOMB DIRECTOR
Course Number: C-100-3742.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 5 weeks (200 hours).
Exhibit Dates: 9/67-Present.
Objectives: To train maintenance personnel to operate, service, maintain, and calibrate a bomb director test group and test set for guidance control systems.
Instruction: Lectures and practical exercises in bomb director test group equipment testing and operation, including digital signal simulator and navigation aids calibration, radar and TV test equipment introduction, navigational equipment testing, and bomb director test set operation and maintenance.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0551
MK V ATMOSPHERE ANALYZERS
Course Number: F-623-031.
Location: Submarine School, Groton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 6/71-Present.
Objectives: To train electronic instrument technicians to operate, maintain, troubleshoot, and repair MK V atmosphere analyzers.
Instruction: Lectures and practical exercises in the operation and maintenance of MK V atmosphere analyzers, including equipment components and flow systems, the 3M System block diagrams, electronic control, the strip chart recorder, and alignment and troubleshooting.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0552
F-4B/J AIR DATA COMPUTER SET
INTERMEDIATE MAINTENANCE
Course Number: C-602-3810.
Location: Air Maintenance Training Detachment, Oceana, VA.
Length: 2-3 weeks (80-96 hours).
Exhibit Dates: 3/70-Present.
Objectives: To train maintenance personnel with knowledge of ballistics computer theory to maintain the ballistics computer test console at the intermediate level.
Instruction: Lectures and practical exercises in the maintenance of semiautomatic ballistics computer test consoles, including block diagram analysis, testing programs, theory of operation, ARA testing, equipment timing controls, order and information registers, and special operating procedures.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0554
ELECTRONICS TECHNICIAN (ET) SENIOR CONVERSION
Course Number: Not available.
Location: Electronics Technician, Class A School, Treasure Island, CA; Electricity and Electronics, Class P School, Great Lakes, IL; Electrician's Mate, Class A School, San Diego, CA; IC Electrician, Class A School, San Diego, CA.
Length: 4I weeks (1440 hours).
Exhibit Dates: 1/55-12/68.
Objectives: To train enlisted personnel to be electronics technicians.
Instruction: Lectures and practical exercises in AC and DC fundamentals; series-parallel circuits and machinery, vacuum tubes; power supplies; audio, video, RF, and magnetic amplifiers; transmitter, receiver, oscillator, and TRB circuits, sonar and radar equipment maintenance; Loran equipment maintenance; teletypewriter terminal equipment maintenance; and electronics administration.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional examination (4/74); 'in the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate category, 6 semester hours in physics; 12 in engineering electronics (12/68).

NV-1715-0555
AVIATION ANTI-SUBMARINE WARFARE (AASW) FOR NAVAL FLIGHT OFFICERS P3A/B(D)
Course Number: E-2D-066.
Location: Fleet Aviation Specialized Operational Training Group, Pacific, Moffett Field, CA.
Length: 7 weeks (245 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train flight officers in the techniques of airborne antisubmarine warfare (AASW).
Instruction: Lectures and practical exercises in the operation of airborne antisubmarine warfare equipment and in AASW tactics, including oceanography and underwater acoustics principles, electronic warfare tactics, and equipment capabilities, limitations, and applications to submarine force missions.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0556
ADVANCED FIRST TERM AVIONICS, CLASS B (AFTA)
Course Number: C-100-2010, C-111-2010.
Objectives: To train enlisted personnel who have backgrounds in electronics and electricity, magnetic amplifiers, and transistor theory, and to operate the 6L16 electrolytic oxygen generator.

Instruction: Lectures and practical exercises in the operation and maintenance of the 6L16 electrolytic oxygen generator, including the electrolytic process of producing oxygen; flow system analysis; functions of electronic control system; hydraulic flow components; oxygen; flow systems; critical cells; power supplies; and troubleshooting; annunciators; contact and magnetic amplifier types; pressure control; system function (operation and analysis); calibration; and troubleshooting and test procedures.

Credit Recommendation: In the vocational certificate category, credit in electronics laboratory or technical elective on the basis of institutional examination (4/74).

NV-1715-0561

S-2D/E AQA-4(V) INDICATOR GROUP SYSTEM INTERMEDIATE, MAINTENANCE

Course Number: C-102-3617; C-102-135

Location: Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Key West, FL

Length: 3 weeks (120 hours)

Exhibit Dates: 6/66-Present

Objectives: To train maintenance personnel to operate, test, and maintain the AN/AQA-4(V) indicator group system.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/AQA-4(V) indicator group system, including circuit analysis of the iofar chain, the reference signal generator, the codar chain, and power supplies; overall and subsystem block-diagram analysis; and troubleshooting and repair procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0562

RF-4B AN/ASQ-88 RT-736 and KY-531 FLIGHT DIRECTOR

Course Number: C-102-195

Location: Air Maintenance Training Detachment, El Toro, CA

Length: 2 weeks (80 hours)

Exhibit Dates: 3/70-Present

Objectives: To train maintenance personnel to service and maintain the TACAN portion of AN/ASQ-88 CNI systems and fire director groups.

Instruction: Lectures and practical exercises in the functional analysis of transceivers, pulse decoders, and fire director computers, with emphasis on troubleshooting and servicing procedures. This course is highly specialized and has limited educational value.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0563

AN/APX-64(V) IFF TRANSPONDER SET INTERMEDIATE, MAINTENANCE

Course Number: C-102-3065

Location: Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Meridian, MS

Length: 3 weeks (120 hours)

Exhibit Dates: 4/68-Present

Objectives: To train electronic maintenance personnel to maintain, service, troubleshoot, and align AN/APX-64(V) IFF transponder sets.

Instruction: Lectures and practical exercises in basic IFF characteristics, block-diagram analysis, detailed logic and circuit theory, and maintenance and operating procedures for IFF transponders.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0564

METEOROLOGICAL/OCEANOGRAPHIC EQUIPMENT MAINTENANCE, CLASS C

Course Number: Not available.

Location: Air Technical Training Center, Lakehurst, NJ

Length: 17 weeks (680 hours)

Exhibit Dates: 5/68-Present

Objectives: To train aviation and electronic technicians to operate and maintain meteorological and oceanographic equipment.

Instruction: Lectures and practical exercises in atom and electron theory, semiconductors, diodes, and transistors; amplifiers, bias and bias stabilization; practical transistor amplifiers; sine wave oscillators; switching, gating, and pulse circuits; weather radar operation and troubleshooting; facsimile transmission theory, operation, and troubleshooting; weathervision TV cameras, transmitters, receivers, and video monitors; sound systems and relays; upper-air sounding equipment, sensors, transducers, transmitters, and receivers analysis and troubleshooting; transimissometer and RVR converter; and oceanographic equipment, thermometric devices, bathythermographs, and buoys.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics and electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics and electrical laboratory (4/74).

NV-1715-0565

ELECTRICITY, ELECTRONICS AND HYDRAULICS, CLASS P (E, E, & H, CLASS P)

Course Number: A-041-0012

Location: Service Schools Command, Great Lakes, IL

Length: 14 weeks (420 hours)

Exhibit Dates: 2/68-1/74

Objectives: To provide enlisted personnel with basic training in the maintenance of missile-launching and gun systems.

Instruction: Lectures and practical exercises in hydraulics, AC and DC circuits, synchro-servo systems, basic electronics, magnetic amplifiers, and circuit analysis.
Credit Recommendation: In the vocational certificate category, 15 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0566

ELECTRONICS MAINTENANCE COURSE
INTERROGATOR SET AN/TPX-42A(V) 5, CLASS C
Course Number: C-103-2028.
Location: Air Technical Training Center, Glynco, GA.
Length: 14 weeks (560 hours).
Exhibit Dates: 3/73-Present.
Objectives: To train electronics technicians who have had previous training in number systems, Boolean algebra, digital fundamentals, and solid-state theory to operate and maintain an AN/TPX-42(V) type 5 radar system installation and to use associated test equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of AN/TPX-42(V) type 5 radar system installations and the use of associated test equipment, including review of transistor theory, integrated circuits, basic logic elements, gates, adders, multivibrators, flip-flops, counters, multiplexers, shift registers, AC and DC conversion devices, interrogator alignment and trouble analysis, and test equipment, interference blanker, video signal processor, indicator data processor, and indicator assembly, components, operation, and trouble analysis.
Credit Recommendation: In the vocational certificate category, 6 semester hours as a technical elective in electronics. 3 in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as a technical elective in electronics (4/74); in the upper-division baccalaureate category, credit as a technical elective in electronics on the basis of institutional examination (4/74).

NV-1715-0567

ADVANCED NAVAL FLIGHT OFFICER TRAINING, AIRBORNE ELECTRONIC WARFARE PHASE
Course Number: Not available.
Location: Naval Air Station, Corpus Christi, TX.
Length: 8–9 weeks (146–160 hours).
Exhibit Dates: 3/73–Present.
Objectives: To provide officers with basic knowledge and skills prerequisite to operational training in electronic warfare replacement training squadrons.
Instruction: Lectures and practical exercises in basic electronics theory, electronic support measures, electronic countermeasures, operator techniques, planning and analysis procedures, and electronic warfare countermeasure design. The material presented in this course is at a very basic survey level.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0570

BASIC POINT DEFENSE OFFICER
Course Number: A-2F-0035.
Location: Guided Missiles School, Mare Island, CA.
Length: 3 weeks (105 hours).
Exhibit Dates: 1/72–Present.
Objectives: To train junior officers to perform and supervise the maintenance of the basic point defense surface missile system.
Instruction: Lectures and practical exercises in the maintenance and maintenance management of the basic point defense surface missile system, including block diagrams, module and component identification, the 3M system, planned maintenance system, specific missile equipment, ancillary equipment and fire control system, launching system, tactical operations, alignment and adjustments, and electromagnetic interference and support.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0571

STRIKE ARMAMENT INTERMEDIATE MAINTENANCE REPAIR
Course Number: C-646-3118.
Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, North Island, CA.
Length: 8 weeks (299 hours).
Exhibit Dates: 3/73–Present.
Objectives: To train enlisted personnel to inspect, test, and repair assembly aviation armament equipment.
Instruction: Lectures and practical exercises in the inspection, testing, and repair of assembly aviation armament equipment (VA-VF type), including the 3M system, operation of airborne missile launchers, suspension and releasing equipment analysis, rocket and flare dispensers, specific aircraft gun control operation, and troubleshooting procedures.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0572

TARTAR WEAPONS OFFICER
Course Number: A-2F-0037.
Location: Guided Missiles School, Dam Neck, VA.
Length: 6 weeks (179 hours).
Exhibit Dates: 10/72–Present.
Objectives: To train officers with previous gunnery experience to operate and maintain missile equipment on DDG-2 ships.
Instruction: Lectures and practical exercises in the operation and maintenance of missile equipment on the DDG-2 ships, including Tartar overview, search radar, specific radar equipment, cooling and dry air systems, system interface, target detection, and identification, selection and tracking, controls and indicators for the master control panel, target evaluation, air ready mode, designation modes, FCS acquisition-to-track sequences, specific track modes, launching system, firing circuits, data flow, logistics, and administrative procedures.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0573

SWS (STRATEGIC WEAPONS SYSTEM) COMMAND POLARIS
(SBIN COMMAND WEAPONS SYSTEM ORIENTATION—POLARIS)
Course Number: A-2F-0023.
Location: Submarine Training Center, Pacifie, Pearl Harbor, HI; Guided Missiles School, Dam Neck, VA.
Length: 7 weeks (230–245 hours).
Exhibit Dates: 11/72–Present.
Objectives: To train officers with submarine experience to operate the fleet ballistic weapons system.
Instruction: Lectures and practical exercises in the operation of fleet ballistic weapons systems, using a block diagram approach and includes principles of digital computers, data transmission systems and inertial instruments, operation and administration of subsystem equipment, tactical applications, weapons subsystem equipment, and re-entry system.
Credit Recommendation: No credit because of the limited technical nature of the course (9/77).

NV-1715-0574

MISSILE TECHNICIAN, CLASS C (1), POLARIS
(MTCI POLARIS MISSILE TECHNICIAN MAINTENANCE, CLASS C)
Course Number: A-121-0016.
Location: Guided Missiles School, Dam Neck, VA.
Length: 22 weeks (770 hours).
Exhibit Dates: 1/68–Present.
Objectives: To train Polaris missile technicians to repair fleet ballistic missile systems.
Instruction: Lectures and practical exercises in the maintenance of fleet ballistic systems on 598/608-class SSB (N), including weapons system orientation, specific missile and guidance equipment, launchers, navigation interface, fire control system, guidance computers, platform, and electronics, measurement, display, programming, operational modes, and circuit analysis for specific equipment; and testing and troubleshooting procedures.
NV-1715-0575
**MISSILE LAUNCHER MK 21 MOD 2 THEORY AND OPERATION**

**Course Number:** F-633-013.
**Location:** Submarine School, Groton, CT.
**Length:** 2 weeks (60 hours).
**Exhibit Dates:** 11/72-Present.
**Objectives:** To provide fleet ballistic missile officers and enlisted personnel with advanced refresher training in theory and operation of Polaris launching systems.
**Instruction:** Lectures and practical exercises in the principles of operation of the subsystems and components of the Polaris missile system.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0576
**POSEIDON MISSILE TECHNICIAN CONVERSION (A-2/A-3 TO C-3)**

**Course Number:** A-121-0139.
**Location:** Guided Missiles School, Dam Neck, VA.
**Length:** 13 weeks (446 hours).
**Exhibit Dates:** 11/72-Present.
**Objectives:** To train Poseidon technicians to maintain and test Poseidon missiles.
**Instruction:** Lectures and laboratories in control systems, Poseidon missile launching systems, fire control systems, and Poseidon guidance systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (4/74).

NV-1715-0577
**SSBN MK 84 POLARIS WEAPONS OFFICER**

**Course Number:** A-2F-0034.
**Location:** Guided Missiles School, Dam Neck, VA.
**Length:** 10 weeks (350 hours).
**Exhibit Dates:** 2/72-Present.
**Objectives:** To familiarize officers with the capabilities and limitations of fleet ballistic missile systems.
**Instruction:** Lectures and practical exercises in capabilities, functions, and principles of operation of the subsystems and components of fleet ballistic missile systems.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0578
**SONAR TECHNICIAN CLASS A-2 (INTERMEDIATE ELECTRONICS)**

**Course Number:** K-130-559.
**Location:** Fleet Anti-Submarine Warfare School, San Diego, CA.
**Length:** 14 weeks (420 hours).
**Exhibit Dates:** 6/68-Present.
**Objectives:** To provide enlisted personnel with a basic review of mathematics and electricity, and advanced training in basic electronics and electronics applications.
**Instruction:** Lectures and practical exercises in basic mathematics and electricity; AC circuit theory, including inductance, capacitance, and resonance; electronics, including vacuum tubes, transistors, amplifiers, oscillators, and servos; and digital and analog computer fundamentals.

Credit Recommendation: In the vocational certificate category, 16 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (4/74).

NV-1715-0579
**RA-SC AN/ASB-12 BOMB DIRECTING SET ORGANIZATIONAL MAINTENANCE**

**Course Number:** C-111-3743.
**Location:** Air Maintenance Training Detachment, Albany, GA.
**Length:** 7 weeks (280 hours).
**Exhibit Dates:** 3/70-Present.
**Objectives:** To train maintenance personnel to operate and maintain AN/ASB-12 bomb-directing sets.
**Instruction:** Lectures and practical exercises in bomb design, operation, and maintenance of the AN/ASB-12 bomb-directing set.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

NV-1715-0580
**SONAR TECHNICIAN CLASS A-1 (BASIC ELECTRONICS)**

**Course Number:** K-130-560.
**Location:** Fleet Anti-Submarine Warfare School, San Diego, CA.
**Length:** 10 weeks (300 hours).
**Exhibit Dates:** 6/68-Present.
**Objectives:** To provide enlisted personnel with training in basic electrical and electronic fundamentals.
**Instruction:** Lectures and practical exercises in basic AC and DC electrical fundamentals and circuit theory; basic electronics, including vacuum tubes, power supplies, transistors, and servos; use of common hand tools; basic motors; and electronic maintenance. Note: This evaluation based only on 4 weeks of the 10-week course; the remaining 6 weeks are apparently classified for military security reasons.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity and electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics and additional credit on the basis of institutional examination (see Note above) (4/74); in the upper-division baccalaureate/associate degree category, 6 semester hours in electricity and electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics or electronics laboratory (4/74).

NV-1715-0581
**IOIC ELECTRONIC DATA PROCESSING MAINTENANCE**

**Course Number:** D-150-010.
**Location:** Reconnaissance Attack Squadron Three, Albany, GA.
**Length:** 19 weeks (760 hours).
**Exhibit Dates:** 1/69-Present.
**Objectives:** To train data systems technicians to troubleshoot and repair electronic data processing equipment.
**Instruction:** Lectures and practical exercises in integrated Operational Intelligence Center (IOIC) systems cross-training; operation and maintenance of magnetic tape processors, interface equipment, digital computers, and high-speed line printers; and use of test equipment for troubleshooting and repair.

Credit Recommendation: In the vocational certificate category, 6 semester hours in computer electronics, 2 in computer electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer electronics, 1 in computer electronics laboratory (4/74).

NV-1715-0582
**AN/ASA-47 DOPPLER/AIRMASS NAVIGATIONAL COMPUTER SYSTEM INTERMEDIATE MAINTENANCE**

**Course Number:** C-102-3554.
**Location:** Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
**Length:** 2-3 weeks (80-120 hours).
**Exhibit Dates:** 1/68-Present.
**Objectives:** To train fleet maintenance personnel to maintain the AN/ASA-47 Doppler air mass navigational computer system.
**Instruction:** Lectures and practical exercises in the maintenance of the AN/ASA-47 Doppler air mass navigational computer system, including circuit analysis of components (position indicator, computer, and latitude-longitude indicator), operation of support equipment, and alignment procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (4/74).

NV-1715-0583
**AN/APN-182(V) RADAR NAVIGATIONAL SET INTERMEDIATE MAINTENANCE**

**Course Number:** C-102-3398.
**Location:** Air Maintenance Training Detachment, Quonset Point, RI.
**Length:** 6 weeks (240 hours).
**Exhibit Dates:** 2/73-Present.
**Objectives:** To train maintenance personnel to maintain the AN/APN-182(V) radar navigation set at the intermediate level.
**Instruction:** Lectures and practical exercises in the maintenance of the AN/APN-
182(V) radar navigation set, including a brief discussion of Doppler theory, logic design, digitized circuits, integrator circuits, specific equipment component breakdown; test set operation, power supply and receiver transmitter unit, clock circuits and tracker, digital scaler, summing amplifiers, demodulator, function board, and troubleshooting and alignment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics, 2 in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics, 1 in electronics laboratory (4/74).

NV-1715-0584
AN/APN-154(V) RADAR BEACON INTERMEDIATE MAINTENANCE
Course Number: C-102-3031.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, Fort Hood, TX; Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, El Toro, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 2/27/2-Present.
Objectives: To train maintenance personnel to maintain the AN/APN-154(V) radar beacon to the intermediate level and to use associated test equipment.

Instruction: Lectures and practical exercises in the maintenance of the AN/APN-154(V) radar beacon and the use of associated test equipment, including controls and indicators, block diagrams and signal flow, component characteristics, electrical characteristics, and alignments and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (4/74).
NV-1715-0591
AN/APX-72 RADAR IDENTIFICATION 
INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Quonset Point, RI; Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment; Imperial Beach, CA; Air Maintenance Training Detachment, Key West, FL.
Length: 160 hours.
Exhibit Dates: 10/68-Present.
Objectives: To train enlisted personnel to maintain, repair, and test AN/APX-72 radar identification systems.
Instruction: Lectures and practical exercises in the block-diagram analysis, circuit analysis, and use of prescribed test equipment in troubleshooting, repairing, bench testing, and aligning radar identification systems.
Credit Recommendation: Version 1: No credit because of the military nature of the course (4/74). Version 2: In the vocational certificate category, 2 semester hours in electronic equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic equipment maintenance on the basis of institutional examination (4/74).

NV-1715-0592
QH-50D OPERATIONAL TELEMETRY MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Dam Neck, VA.
Length: 360 hours.
Exhibit Dates: 1/70-6/72.
Objectives: To train personnel in the operation and equipment repair, including sound power and radiotelephone procedures, basic electricity and electronics, block diagrams, telegraph use, fundamentals of teleprinter units and associated equipment, test equipment and adjustment, equipment components, and preventive and operational maintenance procedures.
Instruction: All versions.
Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in radio/electronics (4/74). Version 2: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74). Version 3: In the vocational certificate category, 4 semester hours in electricity or electronics, 2 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68), and credit in electrical laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in electricity or electronics on the basis of institutional examination (4/74).

NV-1715-0593
1. RADARMAN, CLASS B, OPERATIONAL PHASE
   (RADARMAN, CLASS B)
   Course Number: Version 1: A-221-012; Version 2: Not available.
   Location: Fleet Anti-Air Warfare Training Center, San Diego, CA; Naval Schools Command, Treasure Island, CA.
   Objectives: To train personnel to operate Combat Information Centers and to train CIC personnel to analyze radar circuit operation and repair equipment.
   Instruction: Version 1: Lectures and practical exercises in the operation of Combat Information Centers and training of CIC personnel, including electronic warfare principles, navigation and plotting, communications procedures, naval tactics, and training. Version 2: Lectures and practical exercises in radar circuit operation and equipment repair, including basic electricity and electronics, radar block diagrams, overall system functions, field maintenance, and maintenance supervision.
   Credit Recommendation: Version 1: No credit because of the military nature of the course (4/74). Version 2: In the vocational certificate category, 3 semester hours in basic electricity or electronics, 2 in equipment maintenance (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electricity, 9 in radio/electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electronics, 7 in radio or electronics (4/74).

NV-1715-0594
F-4J AN/AWG-10 TRANSMITTER AND ANTENNA POSITIONING INTERMEDIATE MAINTENANCE
Course Number: C-562-3817
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Oceana, VA.
Length: 240 hours.
Exhibit Dates: 9/69-7/74.
Objectives: To train maintenance personnel familiar with AN/AWG-10 equipment and components in intermediate level, transmitter and antenna-positioning portions of the AN/AWG-10 fail-safe control system.
Instruction: Lectures and practical exercises in the maintenance of transmitter and antenna-positioning portions of the AN/AWG-10 missile control system, including circuit operation, circuit analysis of specialized radar equipment, power supplies, pulse circuitry, timing, antenna control and scan pattern generator, velocity signal computer, and antenna servo, antenna operation, and troubleshooting techniques.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electronic systems maintenance (4/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronic systems maintenance on the basis of institutional examination (4/74).

NV-1715-0595
RADOMAN, CLASS A
Location: Naval School, San Diego, CA; Naval School, Bainbridge, MD.
Objectives: To train enlisted personnel as radio communications operators.
Instruction: All versions: Lectures and practical exercises in the operation of radio communications systems, including teleprinter units, associated equipment, radio principles, message processing, circuit drill and operation, receivers and transmitters, security procedures, and the operation of specific communications equipment. Version 1: Includes maintenance procedures, ancillary equipment, emergency communications. Version 2: Includes voice circuits and voice relay equipment, basic frequency theory, block diagrams, telegraph use, administration, and function of teletypewriter units and associated equipment. Version 3: Includes sound power and radiotelephone procedures, basic electricity and electronics, block diagrams, telegraph use, fundamentals of teleprinter units and associated equipment, test equipment and adjustment, equipment components, and preventive and operational maintenance procedures. 
Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in radio/electronics (4/74). Version 2: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74). Version 3: In the vocational certificate category, 4 semester hours in electricity or electronics, 2 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68), and credit in electrical laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in electricity or electronics on the basis of institutional examination (4/74).

NV-1715-0596
A-6 AN/APO-92 SEARCH RADAR AND ASSOCIATED TEST EQUIPMENT INTERMEDIATE MAINTENANCE
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Objectives: To train enlisted personnel to operate, troubleshoot, and maintain the AN/APO-92 search radar and associated test console.
Instruction: All versions: Lectures and practical exercises in the operation, troubleshooting, and maintenance of the AN/APO-92 search radar and associated test console, including various radar displays, block-diagram analysis, components, and assemble of the electrical synchronizer, transposition chain circuit, electronics unit, antenna/receiver, and related circuits. Version 1: Includes control signals, additional circuit analyses, bombardier/
In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (4/74); in the upper-division baccalaurate/associate degree category, 3 semester hours in basic electricity, 5 in electronics, 3 in receiver and transmitter circuits, 2 in introduction to digital computers, 2 in electronic laboratory, all on the basis of institutional examination (4/74).

Credit Recommendation: No credit because of the military nature of the course (4/74).

PV-3 PB20N AUTOMATIC FLIGHT CONTROL SYSTEM MAINTENANCE, No. 13

Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD. Air Maintenance Training Detachment, Moffett Field, CA. Length: 3 weeks (104 hours).
Exhibit Dates: 1/68-5/70.

Objectives: To train electronic maintenance personnel familiar with PV-3 aircraft systems to maintain and operate the PB20N automatic flight control system.

Instruction: Lectures and practical exercises in the maintenance and operation of the PB20N automatic flight control system, as installed in the PV-3 aircraft, including system components, power supply and monitor, hydraulic box, assembly, trim circuits, gyro systems, controls, amplifier and computer, signal chain and channel, test sets, and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics, 1 in electronics laboratory (4/74).

RA-5C FLIGHT CONTROL AND ELECTRICAL SYSTEMS, ELECTRONICS INTERMEDIATE MAINTENANCE

Course Number: C-602-3729; C-602-223.


Objectives: To train technicians to operate and maintain training equipment.

Instruction: Lectures and practical exercises in electronics, basic electricity, amplifiers, power supplies, test equipment, video tape recorders, avionics, physics, digital computer circuits, programming, and closed-circuit television operation and maintenance.

Version 3: Instruction includes computer and analog computers. Version 4: Instruction includes communications circuits and analog computers.

Credit Recommendation: Version 1: In the vocational certificate category, 1 semester hour in basic mathematics, 3 in basic electricity, 5 in electronics, 3 in receiver and transmitter circuits, 2 in introduction to digital computers, 1 in introduction to analog computers, 2 in television principles, and 2 in electrical laboratory (4/74).

Version 2: In the upper-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in basic electricity, 5 in electronics, 3 in receiver and transmitter circuits, 2 in introduction to digital computers, in introduction to analog computers, and 2 in electrical laboratory, all on the basis of institutional examination (4/74).
NV-1715-0602
TALOS GUNNER'S (MISSILE) HANDLING
Course Number: Not available.
Location: Naval Schools Command, Mare Island, CA.

NV-1715-0603
TERRIER/TARTAR GUNNER'S MATES
Course Number: Not available.
Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.

NV-1715-0604
POSEIDON MISSILE TECHNICIAN
Course Number: A-121-0138.
Location: Guided Missiles School, Dam Neck, VA.
Length: 18 weeks (557 hours).

NV-1715-0605
TERRIER WEAPONS
Course Number: A-ZF-0039.
Location: Guided Missiles School, Dam Neck, VA.
Length: 6 weeks (192 hours).

NV-1715-0606
SWS (STRATEGIC WEAPONS SYSTEM)
- WEAPONS OFFICER POLARIS
(Mk 80 WEAPONS OFFICER)
Course Number: A-ZF-0022.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Guided Missiles School, Dam Neck, VA.
Length: 8-10 weeks (248-350 hours).

NV-1715-0607
MISSILE TECHNICIAN MK 84 POLARIS (A-3)
Course Number: A-121-017.
Location: Guided Missiles School, Dam Neck, VA.
Length: 23 weeks (967 hours).

NV-1715-0608
TALOS OFFICERS
(TALOS WEAPONS/FIRE CONTROL/MISSILE BATTERY)
Course Number: A-ZF-0013.
Location: Not available, Mare Island, CA.
Length: 4 weeks (160 hours).

NV-1715-0609
OPTICAL LANDING SYSTEMS MAINTENANCE,
CLASS (A-3)
Course Number: C-670-2010.
Location: Technical Training Center, Lakehurst, NJ; Air Technical Training Unit, Philadelphia, PA.
Length: 6 weeks (240 hours).

Credit Recommendations:
- In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).
- In the vocational certificate category, 1 semester hour in electrical laboratory (9/77).
- In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).
- In the vocational certificate category, 1 semester hour in electrical laboratory (4/74).
**COURSE EXHIBITS**

**Instructor:** All Versions: Lectures and practical exercises in the troubleshooting and maintenance of the Frenzel Lense Optical Landing System Mk 6 Mod 1 and the manually operated visual landing aid system Mk 1 Mod 1, 2, and 3, or Mk II, including solid-state devices, component identification, test equipment, indicator assembly stabilization, stabilization control equipment, reference light circuits, and lighting assembly. Version 2: Includes specific electrical basics.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, credit in electricity or electronics on the basis of institutional examination (4/74).

NV-1715-0610

UH-2C, HH-2C, HH-2D AUTOMATIC STABILIZATION EQUIPMENT INTERMEDIATE MAINTENANCE (UH-2C AUTOMATIC STABILIZATION EQUIPMENT INTERMEDIATE MAINTENANCE)

**Course Number:** C-602-3388.
**Location:** Air Maintenance Training Detachment, Imperial Beach, CA.
**Length:** 5 weeks (200 hours).
**Exhibit Dates:** 1/70-Present.
**Objectives:** To train maintenance personnel familiar with the F-4131 FLIGHT CONTROL SYSTEM maintenance procedures. Objectives: To train maintenance personnel to operate and maintain the F-4131 FLIGHT CONTROL SYSTEM.

**Credit Recommendation:** No credit because of the limited technical nature of the course (4/74).

**NV-1715-0611**

F-4J AN/AWG-10 ANTENNA CONTROL AND MISSILE CONTROL INTERMEDIATE MAINTENANCE

**Course Number:** Not available.
**Location:** Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA.
**Length:** 3 weeks (120 hours).
**Exhibit Dates:** 8/68-5/69-Present.
**Objectives:** To train maintenance personnel familiar with antenna control equipment and missile control portions of the AN/AWG-10 missile control system.

**Instruction:** Lectures and practical exercises in the maintenance of the control and missile control portions of the AN/AWG-10 missile control system, including antenna control operation, scan pattern generation, operation, velocity signal generation, computer and antenna servo operation, specific missile auxiliary signal generator equipment analysis, missile drive, and launch signal and pilot command signal computers, circuits, and alignment and malfunction isolation procedures.

**Credit Recommendation:** No credit because of the limited technical nature of the course (4/74).

**NV-1715-0612**

F-4J CNI ORGANIZATIONAL MAINTENANCE

**Course Number:** C-102-3815.
**Location:** Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC.
**Length:** 4 weeks (160 hours).
**Exhibit Dates:** 1/73-Present.
**Objectives:** To train maintenance personnel to operate and maintain the F-4J CNI systems.

**Instruction:** Lectures and practical exercises in the maintenance of the F-4J CNI systems, including compact wire bundle identification, communication equipment, head array, radar, data link, and instrument landing system analysis, and check-out and troubleshooting procedures.

**Credit Recommendation:** No credit because of the limited technical nature of the course (4/74).

**NV-1715-0613**

F/RF-4BJ AUTOMATIC FLIGHT CONTROL SYSTEMS INTERMEDIATE MAINTENANCE

**Course Number:** Not available.
**Location:** Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Beaufort, SC.
**Length:** 2 weeks (80 hours).
**Exhibit Dates:** 1/70-Present.
**Objectives:** To train maintenance personnel to operate and maintain the AN/AJB-3 and remote standby, attitude-indicator systems.

**Instruction:** Lectures and practical exercises in the maintenance of the AN/AJB-3 and remote-standby, attitude-indicator systems.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in electrical laboratory (4/74).

**NV-1715-0614**

SH-3A AUTOMATIC STABILIZATION EQUIPMENT MAINTENANCE

**Course Number:** Not available.
**Location:** Air Maintenance Training Detachment, Ream Field, CA; Air Maintenance Training Detachment, Key West, FL.
**Length:** 5 weeks (200 hours).
**Exhibit Dates:** 3/68-Present.
**Objectives:** To train maintenance personnel to train the SH-3A helicopter's automatic stabilization equipment at the intermediate level.

**Instruction:** Lectures and practical exercises in the maintenance of the SH-3A helicopter's automatic stabilization equipment, including flight theory, stabilization problems, system functions, circuit analysis, control channel operation, equipment, and troubleshooting procedures.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (4/74).
NV-1715-0617
A-7 AN/ASW-26/30 AUTOMATIC FLIGHT CONTROL SYSTEM INTERMEDIATE MAINTENANCE
Course Number: C-602-3782; C-602-162.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL.
Length: 2 weeks (64 hours).
Exhibit Dates: 9/68-Present.
Objectives: To train fleet maintenance personnel who have backgrounds in A-7 systems to operate, test, troubleshoot, and maintain specific automatic flight control systems, equipment at the intermediate level.
Instruction: Lectures and practical exercises in the operation, testing, troubleshooting, and maintenance of the AN/ASW-26 and AN/ASW-30 automatic flight control systems, including component theory, various module analyses, circuit analysis, modes of operation, system testing, and control augmentation, trim theory, and specific component testing procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

NV-1715-0618
GUNNER’S MATE CLASS C ROCKET LAUNCHER MK 108
Course Number: Not available.
Location: Service Schools Command, Great Lakes, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 2/68-Present.
Objectives: To train gunner’s mates to operate, maintain, and repair the MK 108 rocket launcher and associated components and support equipment.
Instruction: Lectures and practical exercises in the operation, maintenance, and repair of the rocket launcher and associated components and support equipment, including electrical control circuits, synchronizers, amplifiers, hydraulic control systems, launcher power drives, assembly and disassembly procedures, and test equipment.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0619
SPARROW III, SIDEWINDER, SHRIKE AND WALLEYE GUIDED MISSILE TEST EQUIPMENT INTERMEDIATE MAINTENANCE
Course Number: C-122-3109.
Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, North Island, CA.
Length: 7 weeks (280 hours).
Exhibit Dates: 2/73-Present.
Objectives: To train enlisted personnel to operate, calibrate, and maintain air-launched guided missile test equipment at the intermediate level.
Instruction: Lectures and practical exercises in the operation, calibration, and maintenance of air-launched guided missile test equipment, including principles of modulation, Doppler theory, and Sparrow III, Sidewinder, Shrike, and Walleye block-diagram analysis, data flow, test set operation and components, circuits, signal generation, electronic theory, power supplies, and detailed calibration procedures.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

NV-1715-0620
GUNNER’S MATE CLASS C GUIDED MISSILE LAUNCHING SYSTEM
Course Number: Not available.
Location: Service Schools Command, Great Lakes, IL.
Length: 24 weeks (620 hours).
Exhibit Dates: 2/68-Present.
Objectives: To train gunner’s mates to operate, maintain, and repair missile launching systems.
Instruction: Lectures and practical exercises in the operation, maintenance, and repair of missile-launching systems, including configuration, characteristics, and performance of guided missiles; electrical and servo system input and output; power drive, testing of magnetic and electronic amplifiers, syncro servo systems, and hydraulic mechanical components; power supplies; electronic and hydraulic circuits; AC and DC amplifiers; oscilloscopes; modulator and demodulator units; fire-fighting equipment operation; and maintenance management.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0621
SH-3 AUTOMATIC STABILIZATION EQUIPMENT INTERMEDIATE MAINTENANCE
Course Number: C-602-3398.
Location: Air Maintenance Training Detachment, Imperial Beach, CA; Air Maintenance Training Detachment, Key West, FL.
Length: 5-6 weeks (200-240 hours).
Exhibit Dates: 5/68-Present.
Objectives: To train maintenance personnel to maintain the SH-3 helicopter’s automatic stabilization equipment at the intermediate level.
Instruction: Lectures and practical exercises in the operation, calibration, and maintenance of the SH-3 helicopter’s automatic stabilization equipment, including flight theory, controls, hydraulic systems and servos, pitch channel operation, vertical gyro operation, various signal paths and circuits, modulators and demodulators, monitor panels, test set operation, yaw channel familiarization, collective channel operation, cyclic coupler system components, and troubleshooting and test procedures.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

NV-1715-0622
TALOS GUIDED MISSILE AND GUIDED MISSILE TEST SET MAINTENANCE
Course Number: Not available.
Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.
Length: 23 weeks (690 hours).
Exhibit Dates: 2/68-Present.
Objectives: To train enlisted personnel to test and maintain Talos guided missiles, and to operate and maintain associated test sets and equipment.
Instruction: Lectures and practical exercises in the testing and maintenance of Talos guided missiles, and in the operation and maintenance of associated test sets and equipment, including description of the electrical, control, steering, mid-course guidance, terminal guidance and airborne flight evaluation systems; components and operation of specific guided missile test sets and fuze test equipment; and components of specific combined-unit telemetry ground stations and the Talos weapon systems.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0623
LAUNCHER TECHNICIAN MK 88 FIRE CONTROL CONVERSION
Course Number: A-633-0015.
Location: Guided Missiles School, Dam Neck, VA.
Length: 2 weeks (63 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train enlisted personnel who have had training in a missile-launching system to operate and maintain mechanical and electrical subsystems of the Poseidon missile-launching systems.
Instruction: Lectures and practical exercises in the operation and maintenance of mechanical and electrical subsystems of Poseidon missile-launching systems, including principles of inertial guidance and flight control, warhead configuration, and deployment, principles of hydraulics and pneumatics, repair of the launch tube, missile ejector group and missile suspension system components; disassembly and assembly of gas piston-operated pneumatic valves, advanced theory of specific valves, detailed logic and analysis of the solid-state integrated circuitry, and troubleshooting.
Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0624
GUNNER (GUNNERY OFFICERS (RELATIVE RATE))
Course Number: 1-227
Location: Fleet Anti-Air Warfare Training Center, Dam Neck, VA.
Length: 2 weeks (70 hours).
Exhibit Dates: 5/72-Present.
COURSE EXHIBITS

Objectives: To train junior officers from ships with specific gun mount and relatively simple fire control systems to perform as gunnery officers.

Instruction: Lectures and practical exercises in fundamentals of gunnery, including anti-air warfare and fire control principles; ammunition, ballistics, magazines, administrative procedures, small arms, gunfire analysis, target tracking, missile systems, and operation repair, and alignment of specific equipment.

Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1715-0625

GUNNERY OFFICERS—WEAPONS

DEPARTMENT OFFICERS

Course Number: J-2E-0100; J-2E-1002;

Location: Fleet Anti-Air Warfare Training Center, Dam Neck, VA.

Length: 4 weeks (140 hours).

Exhibit Dates: 5/72–Present.

Objectives: To train junior officers to perform as gunnery or fire control division officers.

Instruction: Lectures and practical exercises in the fundamentals of gunnery, including anti-air warfare and fire control principles; ammunition, ballistics, magazines, administrative procedures, small arms, gunfire analysis, target tracking, missile systems, and operation repair, and alignment of specific equipment.

Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1715-0626

GUNNER'S MATE CLASS C ASROC

LAUNCHING GROUP

Course Number: Not available.

Location: Service Schools Command, Great Lakes, IL.

Length: 15 weeks (450 hours).

Exhibit Dates: 2/68–Present.

Objectives: To train gunner's mates to operate, maintain, and repair advanced rocket-launching systems.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of advanced rocket-launching systems, including power supplies, electronics, hydraulic systems, control circuitry, launching machinery construction and operation, testing and monitoring of signal inputs, management procedures, and logistics.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74).

NV-1715-0627

AN/ARW-77 BULLPUP GUIDANCE CONTROL SYSTEM

Course Number: Not available.

Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 2 weeks (80 hours).

Exhibit Dates: 7/69–Present.

Objectives: To train maintenance personnel who have backgrounds in transistor fundamentals to maintain and operate the AN/ARW-77 Bullpup transmitter.

Instruction: Lectures and practical exercises in the maintenance and operation of the AN/ARW-77 Bullpup transmitter, including operational analysis, circuit analysis and block diagrams of the transmitter, amplifiers, control units, generator and mixer and command board, and testing, alignment, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

NV-1715-0628

AN/DPM-7 SPARROW III GUIDED MISSILE TEST EQUIPMENT INTERMEDIATE MAINTENANCE

(SPARROW III MISSILE TEST EQUIPMENT MAINTENANCE-DEPOT TEST EQUIPMENT OF THE AN/DPM-7)

Course Number: Not available.

Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, Miramar, CA.

Length: 4–5 weeks (160–200 hours).


Objectives: To train enlisted personnel to troubleshoot and maintain the Sparrow III missile and associated test equipment.

Instruction: Lectures and practical exercises in the troubleshooting and maintenance of the Sparrow III missile and the calibration and maintenance of associated test equipment, including check-out procedures, missile and test set, components, subassemblies, data flow, power supply block analyses, and test set repair procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (4/74).

NV-1715-0629

CLASS A AVIATION GUIDED MISSILEMAN

Course Number: Not available.

Location: Aviation Guided Missileman School, Memphis, TN.


Objectives: To teach enlisted personnel basic electronics and operation of electronic test equipment, and to train them to operate and maintain missiles.

Instruction: All Versions: Lectures and practical exercises in electronics fundamentals and operation of electronic test equipment, including AC and DC principles, radar electronics fundamentals, transmitter theory, transistors, amplifiers, vacuum tubes, various circuits, and receiver theory.

Version 1: Includes receiver alignment and troubleshooting and antenna systems.

Version 2: Includes gyro, synchros, and servos, guided missile components; and missile system testing.

Credit Recommendation: Version 1: In the vocational certificate category, 8 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 3 in electronic circuits (12/68).

Version 2: In the vocational certificate category, 8 semester hours in electronics (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 2 in electronic circuits (12/68).

NV-1715-0630

ASROC MISSILE ASSEMBLY AND MAINTENANCE

Course Number: K-121-1021.

Location: Fleet Anti-Submarine Warfare School, San Diego, CA.

Length: 2 weeks (70 hours).

Exhibit Dates: 8/72–Present.

Objectives: To train weapons and torpedo officers and designated strikers to assemble and maintain the ASROC missile.

Instruction: Lectures and practical exercises in the assembly and maintenance of the ASROC missile, including system components, testing, packaging, and safety, and specific equipment test, repair, and maintenance.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0631

A-4 ARMAMENT SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-646-3716.

Location: Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Beaufort, SC.

Length: 2 weeks (74 hours).

Exhibit Dates: 2/73–Present.

Objectives: To train maintenance personnel with knowledge of the A-4 series aircraft and aviation or munitions fundamentals to maintain and operate the A-4 armament system.

Instruction: Lectures and practical exercises in the operation and maintenance of the A-4 armament system, including basic control analysis, alternate controls, gun control system, circuit analysis, fuzes-arming system components, missile system components and launcher and tester, special weapons, and suspension and accessory equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74).

NV-1715-0632

F-4B/J ARMAMENT, MISSILE AND WEAPONS CONTROL SYSTEM ORGANIZATIONAL MAINTENANCE

(Optional)

Course Number: C-646-3806.

Location: Air Maintenance Training Detachment, Miramar, CA; Air Main-
tenance Training Detachment, Oceana, VA.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/68–Present.

Objectives: To train maintenance personnel with knowledge of electrical fundamentals to operate and maintain armament, missile, and weapon control systems equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of armament, missile, and weapon control systems equipment, including F-4B/J equipment, configuration, and control panels; specific guided missile launcher equipment circuitry, test sets, and operation; wing missile pylons; operation; centerline system and wing fuel tank pylons; operation and components; fuse function control system, multiple weapons system electrical operation, and miscellaneous systems and test sets.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0633

QH-50D WEAPONS SYSTEM ELECTRONIC INTERMEDIATE MAINTENANCE

Course Number: Not available.

Location: Naval Air Technical Training Center, Glynco, GA.

Length: 9–10 weeks (352–392 hours).

Exhibit Dates: 10/65–Present.

Objectives: To train enlisted personnel to perform as airborne radar intercept operators.

Instruction: Lectures and practical exercises in airborne radar intercept operations, including communications and navigation equipment, flight line procedures, survival equipment, jet operation, general aircraft systems, meteorology, cruise control, approaches, computer-based solutions, navigation procedures, voice procedures, intercept procedures and tactics, radar fundamentals, path analysis, and Sidewinder intercepts.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0636

CONALOG II MAINTENANCE (SPERRY)

Course Number: A-623-0033; F-623-027.

Location: Submarine School, Groton, CT.

Length: 5 weeks (200 hours).


Objectives: To train maintenance personnel to operate and maintain the submarine pictorial display and control system (CONALOG).

Instruction: Lectures and practical exercises in the operations and maintenance of the submarine pictorial display and control system, including functional block analysis, data flow within systems, power supplies, and test set and associated testing procedures for the specific equipment.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0637

S-2D/E AN/ARN-52(V) NAVIGATIONAL TACAN MAINTENANCE

Course Number: Not available.

Location: Air Maintenance Training Detachment, Key West, FL.

Length: 3 weeks (120 hours).

Exhibit Dates: 1/68–Present.

Objectives: To train fire control technicians to operate and maintain the AN/ARN-52 navigational TACAN.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/ARN-52 navigational TACAN, including theory of operation, power supply, analysis of various circuits, and block-diagram analysis for range- and bearing-measuring circuitry.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0638

AIRBORNE RADAR INTERCEPT OPERATOR

Course Number: Not available.

Location: Air Technical Training Center, Glynco, GA.

Length: 9–10 weeks (352–392 hours).

Exhibit Dates: 10/65–Present.

Objectives: To train enlisted personnel to perform as airborne radar intercept operators.

Instruction: Lectures and practical exercises in airborne radar intercept operations, including communications and navigation equipment, flight line procedures, survival equipment, jet operation, general aircraft systems, meteorology, cruise control, approaches, computer-based solutions, navigation procedures, voice procedures, intercept procedures and tactics, radar fundamentals, path analysis, and Sidewinder intercepts.

Credit Recommendation: No credit because of the limited technical nature of the course (4/74).

NV-1715-0639

1. ELECTRONICS TECHNICIAN, CLASS A,
   PHASE SEIR (SHIPBOARD EQUIPMENT
   INDOSTRICATION, COMMUNICATIONS)

2. ELECTRONICS TECHNICIAN, CLASS C,
   SHIPBOARD EQUIPMENT INDOSTRICATION
   (COMMUNICATIONS)


Location: Service School Command, Treasure Island, CA; Service School Command, Great Lakes, IL.


Objectives: To train graduates of basic electronics courses to operate, maintain, and repair shipboard electronics equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of shipboard electronics equipment, including principles and operation of transmitters, oscillators, and antennas; circuit diagrams for major components; transceiver and telegraph terminal equipment; telecommunications fundamentals; controls; and testing and installation procedures.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in electronics laboratory (9/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (9/77). Version 2: In the vocational certificate category, 3 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory on the basis of institutional examination (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0640

1. ELECTRONICS TECHNICIAN, CLASS A,
   PHASE SEIR (SHIPBOARD EQUIPMENT
   INDOSTRICATION, COMMUNICATIONS)

2. ELECTRONICS TECHNICIAN, CLASS C,
   SHIPBOARD EQUIPMENT INDOSTRICATION
   (COMMUNICATIONS)


Location: Service School Command, Treasure Island, CA; Service School Command, Great Lakes, IL.


Objectives: To train graduates of basic electronics courses to operate, maintain, and repair shipboard electronics equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of shipboard electronics equipment, including principles and operation of transmitters, oscillators, and antennas; circuit diagrams for major components; transceiver and telegraph terminal equipment; telecommunications fundamentals; controls; and testing and installation procedures.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in communications equipment (9/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in communications laboratory (9/77). Version 2: In the vocational certificate category, 3 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory on the basis of institutional examination (4/74).

NV-1715-0641

1. ELECTRONICS TECHNICIAN, CLASS A,
   PHASE SEIR (SHIPBOARD EQUIPMENT
   INDOSTRICATION, COMMUNICATIONS)

2. ELECTRONICS TECHNICIAN, CLASS C,
   SHIPBOARD EQUIPMENT INDOSTRICATION
   (COMMUNICATIONS)


Location: Service School Command, Treasure Island, CA; Service School Command, Great Lakes, IL.


Objectives: To train graduates of basic electronics courses to operate, maintain, and repair shipboard electronics equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of shipboard electronics equipment, including principles and operation of transmitters, oscillators, and antennas; circuit diagrams for major components; transceiver and telegraph terminal equipment; telecommunications fundamentals; controls; and testing and installation procedures.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in communications equipment (9/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in communications laboratory (9/77). Version 2: In the vocational certificate category, 3 semester hours in electronics laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory on the basis of institutional examination (4/74).
NV-1715-0640

1. P-3C SENSOR STATION THREE (RADAR/ DISPLAY TECHNICIAN) ORGANIZATIONAL MAINTENANCE

2. P-3C SENSOR STATION THREE (RADAR/ DISPLAYS) INTEGRATED SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3593.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.

Objectives: To train flight maintenance personnel to operate and maintain P-3C Sensor Station Three radar/display systems.

Instruction: All Versions: Lectures and practical exercises in the operation and maintenance of P-3C Sensor Station Three radar/display systems, including specific equipment components, block diagrams, trouble analysis, and adjustment; radio and IFF systems, magnetic anomaly detection system, and low-light-level television system. Version 1: Includes functions of logic units for specific display equipment.

Credit Recommendation: Version 1: In the vocational certificate category, 8 semester hours in electronic maintenance on the basis of institutional examination (4/74). Version 2: In the vocational certificate category, 6 semester hours in electronic maintenance equipment on the basis of institutional examination (4/74).

NV-1715-0643

1. RADARMAN, CLASS A
2. CLASS A RADARMAN SCHOOL (OPERATIONAL COURSE)

Course Number: Not available.
Location: Naval Schools Command, Treasure Island, CA.

Objectives: To train enlisted personnel to perform as on-board radar repairmen.

Instruction: All Versions: Lectures and practical exercises in the functions of radar board repairmen, including operation and maintenance procedures for specific radar equipment, air and surface search and height-finding radar sets and associated remote repeaters, air plotting and maneuvering, tactical and radar navigation, communications equipment, and test sets. Version 1: Includes basic electricity and electronics and special radar circuits. Version 2: Includes countermeasures equipment.

Credit Recommendation: Version 1: In the vocational certificate category, 5 semester hours in electricity or electronics; 5 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68). Version 2: In the vocational certificate category, 5 semester hours in electricity or electronics (4/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in electricity or electronics (4/74).

NV-1715-0644

F/RF-8 SHOEHORN ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3851.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 3-4 weeks (100-160 hours).
Exhibit Dates: 6/71-Present.

Objectives: To train flight maintenance personnel to operate and maintain a Shoehorn electronic countermeasures system.

Instruction: Lectures and practical exercises in the operation and maintenance of a Shoehorn electronic countermeasures system, including basic principles of sound, logic, and radar; introduction to electronic countermeasures; Shoehorn system and component block diagram and locations; peripheral equipment and procedures; and hard line and connector repair.

Credit Recommendation: In the vocational certificate category, 1 semester hour in equipment maintenance on the basis of institutional examination (4/74); in the lower-division baccalaureate/associate degree category, credit in equipment main-
tenance on the basis of institutional examination (4/74).

NV-1715-0645

AN/SPA-62 COUNTERMEASURES RECEIVING GROUP, CLASS C

Course Number: A-102-25.
Location: Electronics Technicians, Class C School, Treasure Island, CA.
Length: 4 weeks (160 hours).
Exhibit Dates: 10/66-Present.

Objectives: To train personnel with prior technical training in the operation, maintenance, and repair of the AN/SPA-62 countermeasures receiving group.

Instruction: Lectures and practical exercises on the operation, maintenance, and repair of the AN/SPA-62 countermeasures receiving group, including维修 and material management, special circuits and semiconductor devices used in the AN/SPA-62, system block diagram, operating procedures, printed circuit board repair techniques, radar set modifications, receiver, trigger and gate generator, normal and ECCM video realignment, power supplies, and control monitor.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronic maintenance techniques (4/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronic maintenance techniques on the basis of institutional examination (4/74).

NV-1715-0646

INTERMEDIATE AVIATION FIRE CONTROL TECHNICIAN, CLASS B

Course Number: Not available.
Location: Air Technical Training Center, Memphis, TN.
Length: 34 weeks (1360 hours).
Exhibit Dates: 4/59-12/68.

Objectives: To provide aviation fire control technicians with supplemental training in electronics maintenance.

Instruction: Lectures and practical exercises in the intermediate maintenance of aviation fire control equipment, including electricity and mathematics, principles of electronics, advanced electronics, and essentials of fire control; supervisory training; and supply procedures.

Credit Recommendation: In the vocational certificate category, 5 semester hours in basic electric circuits, 5 in electronic circuits, 1 in analog computers, 1 in digital computers, 4 in electronics laboratory, 1 in maintenance supervision, and 1 in maintenance coordination (4/74); in the lower-division baccalaureate/associate degree category, 15 semester hours in engineering electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in basic electric circuits, 5 in electronic circuits on the basis of institutional examination, 1 in analog computers on the basis of institutional examination, 1 in digital computers on the basis of institutional examination, 2 in electronic laboratory on the basis of institutional examination, credit in maintenance supervision on the basis of institutional examination, and, for non-science majors, 1 in maintenance coordination (4/74).
NV-1715-0647
CLASS A GUIDED MISSILEMAN
Course Number: Not available.
Location: Guided Missiles School; Dam Neck, VA.
Length: 24 weeks (725 hours).
Exhibit Dates: 12/68-6/72.
Objectives: To train personnel to perform as junior guided missilemen.
Instruction: Lectures and practical exercises in the maintenance and repair of weapons direction systems, including Terrier weapon system fundamentals; analysis of weapons direction systems, including power supplies, simulating system, sweep generation and deflection, video and tracking systems, self test, orientation and display, and target evaluation, director-channel switching, designation data converting system, weapon assignment, and casualty analysis; and related computer and systems equipment.
Credit Recommendation: In the vocational certificate category; 3 semester hours in electronics or electricity (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics or electricity (12/68); in the upper-division baccalaureate/associate degree category, 1 semester hour as an elective in electronics or electricity, 1 in electrical laboratory (4/74).

NV-1715-0648
AVIATION ORDNANCEMAN, CLASS A
Course Number: C-646-2010.
Location: Air Technical Training Center, Memphis, TN; Air Technical Training Center, Jacksonville, FL.
Length: Version 1: 9 weeks (297 hours).
Objectives: To train enlisted personnel to perform as aviation ordnancemen.
Instruction: Lectures and practical exercises on the basic electronics and circuits of guided missiles, including magnetic amplifiers, oscillators, transmitters, transmission lines, TRF receivers, super heterodyne receiver, transistors, radar special circuits, and principles of guided missiles and nuclear weapons.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics or electricity, 2 in electrical laboratory (4/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics or electricity (12/68); in the upper-division baccalaureate/associate degree category, 1 semester hour as an elective in electronics or electricity, 1 in electrical laboratory (4/74).

NV-1715-0650
A-6 DATA PROCESSING UNIT AND ASSOCIATED TEST SET INTERMEDIATE MAINTENANCE
Course Number: C-102-3775.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 2 weeks (80 hours).
Exhibit Dates: 2/73-Present.
Objectives: To train maintenance personnel to operate, maintain, and troubleshoot the A-6 data processing unit and DPU test set.
Instruction: Lectures in data processing unit and DPU test set monopulse theory, description, purpose, block diagram and circuit analysis, functional operation, circuit theory, shop procedures, system checkout and repair procedures, and safety procedures.
Credit Recommendation: Insufficient data for evaluation (3/74).

NV-1715-0652
1. GUNNER'S MATE, CLASS A
2. GUNNER'S MATE CLASS A, PHASE I (A-1)
Course Number: A-041-0010.
Location: Service Schools Command, Great Lakes, IL.
Length: Version 1: 12 weeks (400 hours).
Version 2: 16 weeks (447 hours).
Exhibit Dates: Version 1: 2/73-Present.
Objectives: To train enlisted personnel to operate and maintain gun mount and missile launching systems.
Instruction: Lectures and practical exercises in AC and DC motors, generators, gearing systems, servos, basic vacuum tube and transistor electronics, fundamental fluid mechanics, munitions, small arms and fire control systems. Version 2: Lectures and practical exercises in electrical fundamentals, including elements, matter, electron theory, magnetism, AC and DC theory and circuitry, and application of circuits including transformers; equipment and machinery construction and operation, including gun mounts, and surface-to-air and surface-to-underwater missile launching systems, control systems fundamentals, and standard and digital computers used for solving control problems; hand tools usage; small arms operation, explosives characteristics, hydraulic and synchro-servo systems troubleshooting and alignment.

NV-1715-0654
Mk 9 and Mk 10 5738 CALIBER TWIN GUN MOUNT POWER DRIVE MAINTENANCE
Course Number: K-041-2060.
Location: Fleet Training Center, San Diego, CA.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel to operate, maintain, and repair the Mk 9 and Mk 10 5738 caliber power drives and indicator-receiver regulators.
Instruction: Lectures and practical exercises in the operation, maintenance, and repair of the Mk 9 and Mk 10 5738 caliber power drives and indicator-receiver regulators, including the elementary hydraulic, electric circuits, control systems, disassembly and assembly, and adjustment procedures.
Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1715-0655
3'/50 CALIBER RAPID FIRE TWIN MOUNT GUN MAINTENANCE (Mk 35)
Course Number: J-183-1202.
Location: Fleet Combat Direction Systems Training Center, Atlantic, Dam Neck, VA.
Length: 4 weeks (120 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train gunnery personnel to test, adjust, and maintain the 3'/50 caliber rapid fire gun mount.
Instruction: Lectures and practical exercises in the testing, adjustment, and maintenance of the 3'/50 caliber rapid fire gun mount, including basic electricity and electronics, power, gun, and motor field con-
trol circuits; parallel system operation; elevation and train receiver regulators; amplifier, cabinet components; gun mechanism; loader drive operation, main cam shaft operation; feeding and shifting mechanism; timing; brake system; and lubrication procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0656
DATA SYSTEMS TECHNICIAN, CLASS C, PERIPHERAL GROUP RD-281(V)/UVK RECORDER REPRODUCER
MAGNETIC DISK FILE EQUIPMENT MAINTENANCE

Course Number: A-150-0067
Location: Naval Schools Command, Mare Island, CA
Length: 5 weeks (150 hours).
Exhibit Dates: 4/70-Present.
Objectives: To train enlisted personnel to operate and maintain a recorder-reproducer magnetic disk RD-281/UVK.

Instruction: Lectures in file disk familiarization, programming, disk file adjustment and maintenance, instruction set familiarization, and malfunction isolation.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-1715-0657
MARDAN/VERDAN COMPUTER THEORY

Course Number: F-193-084
Location: FBM Submarine Training Center, Charleston, SC
Length: 2 weeks (80 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train the navigation electronics technician to operate the MARDAN or VERDAN computer and to understand its theory of operation.

Instruction: Lectures in MARDAN or VERDAN computer operation, including Boolean algebra review, computer program loading, parallel sequencing and protective circuitry, GP airborne operation, and digitization techniques.

Credit Recommendation: In the vocational certificate category, credit in electromechanical technology (3/74).

NV-1715-0658
TERRIER WEAPONS SYSTEMS WITH DIGITAL FIRE CONTROL SYSTEMS (MFCS MK 28/AFCS)

Course Number: A-121-0180
Location: Guided Missiles School, Dam Neck, VA
Length: 11 weeks (470 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train enlisted personnel to operate and maintain the Terrier digital fire control weapons system and to supervise its operation, maintenance, and testing.

Instruction: Lectures and practical exercises in Terrier weapons system introduction; ship sensors and search radars, including three-dimensional ones; fire control systems, including gunfire and underwater fire; power distribution and control circuits; tactical data systems; weapons direction system; guided missile fire control system; data flow and interface; launching system and Terrier missile; and weapons system testing and alignment procedures.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electrical laboratory (3/74).

NV-1715-0659
P-3 POWER GENERATING SYSTEM AND AVQ-2 SEARCHLIGHT INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA
Length: 2 weeks (80 hours).
Exhibit Dates: 5/71-Present.
Objectives: To train maintenance personnel to test, repair the P-3 generator, supervisory panel, bus transfer relay, and a specific searchlight.

Instruction: Lectures and practical exercises in the testing, troubleshooting, and repair of the P-3 generator, supervisory panel, bus transfer relay, and a specific searchlight.

Credit Recommendation: In the vocational certificate category, 1 semester hour as an elective in electricity (5/74).

NV-1715-0660
MOTION PICTURE PROJECTION SYSTEM MAINTENANCE, CLASS C

Course Number: A-690-0014; A-690-0015
Location: Naval School, San Diego, CA; Naval School, Norfolk, VA
Length: 2 weeks (80 hours).
Exhibit Dates: 2/70-Present.
Objectives: To train projektionists to maintain, troubleshoot, and repair Mod 16mm sound motion picture projectors.

Instruction: Lectures and practical exercises in JAN 16mm sound motion picture projector maintenance, troubleshooting, and repair, including mechanical and electrical components, power supply and vacuum tube amplifier theory, and audio system troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in electrical technology, mechanical technology, or electromechanical technology (5/74).

NV-1715-0661
STROMBERG CARLSON AUTOMATIC TELEPHONE XY SWITCHING SYSTEM MAINTENANCE, CLASS C

Course Number: A-623-0043

Location: Service School Command, Great Lakes, IL
Length: 7 weeks (220 hours).
Exhibit Dates: 12/74-Present.
Objectives: To train personnel in the installation, repair, and maintenance of automatic electric telephone systems.

Instruction: Areas of instruction include the Stromberg Carlson automatic telephone system, relaying fundamentals, analysis of system design, priorities and faults.

Credit Recommendation: In the vocational certificate category, 3 semester hours in telephone switch gear (9/77).

NV-1715-0662
MODEL 28 ASR TELETYPewriter MAINTENANCE

Course Number: A-160-0023.
Location: Teletype Maintenance Class C School, Norfolk, VA; Teletype Maintenance Class C School, San Diego, CA.
Length: 9-10 weeks (307-328 hours).
Exhibit Dates: 10/71-Present.
Objectives: To train personnel to install, maintain, and repair Mod 28 automatic teletype equipment, including Mod 28 automatic send and receive teletype machines (AN/UUCG-6K, AN/UUCG-20 and AN/UUCG-6K modified for low-level keying), and in methods for planned maintenance system implementation.

Instruction: Lectures and practical exercises in installation, maintenance, and repair of Mod 28 automatic send and receive teletype machines and in the implementation of maintenance data collection systems, including introductions to AN/UUCG-6K, automatic teletypewriter, keyboard, perforator and repair, and associated equipment.

Credit Recommendation: In the vocational certificate category, 6 semester hours in teletypewriter maintenance (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electrical technology, mechanical technology, or electromechanical technology (5/74).

NV-1715-0663
TELETYPewriter MAINTENANCE, CLASS C, LOW LEVEL KEYING TELETYPewriter MAINTENANCE

Course Number: A-160-0052; A-160-0053.
Location: Naval Schools Command, Norfolk, VA; Service School Command, San Diego, CA.
Length: 3 weeks (105 hours).
Exhibit Dates: 1/71-Present.
Objectives: To train enlisted personnel to install low-level modification kits and to adjust, maintain, and repair the Mod 28 teletypewriter.

Instruction: Lectures and practical exercises in the installation, adjustment, maintenance, and repair of MOD 28 teletypewriter equipment modified for low-level keying, including electrical orientation; semiconductor fundamentals; radio frequency; and electromagnetic interference; purpose and construction of MK-1088/UG modification kit; modes of operation; circuit symbols, electrical service assembly, and options; test equipment; circuit card analysis; modification kit installation.
tion; adjustments; converter; repair; and troubleshooting.

Credit Recommendation: In the vocational certificate category, 3 semester hours in teletypewriter operation and repair (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in electromechanical technology (5/74).

NV-1715-0664
1. TELETYPewriter PERFORATOR TT-253/UGC COMBINED MAINTENANCE

Course Number: All Versions: A-160-0076
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.


Objectives: To train enlisted personnel to operate and maintain TT-253/UGS teletypewriter perforators, TT-187/UG distributor transmitters, and associated equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of TT-253/UGS teletypewriter perforators and TT-187/UGS distributor transmitters, including general system information; theory of system operation; and service and repair of these distributer-transmitters.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours in electromechanical technician training (9/77). Version 2: In the vocational certificate category, 3 semester hours in teletypewriter perforation (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in electronic-mechanical technology (5/74).

NV-1715-0665
TELETYPewriter SYSTEM (APLOAT) MAINTENANCE MODELS TT70A/UG AND AN/UGC-5 TT-252 TYING PERFORATOR

Course Number: K-160-262.
Location: Fleet Training Group, Pearl Harbor, HI.

Length: 6 weeks (180 hours).

Exhibit Dates: 4/66–12/68.

Objectives: To train enlisted personnel on TT70A teletypewriters and on AN/UGC-5 perforators.

Instruction: Lectures and practical exercises on the operation and preventive maintenance of TT-70A/UG teletypewriters and the operation of the typing perforator TT-252/UG, including teletypewriter introduction, Mod 28 component parts, keyboard and adjustments, automatic typers and adjustments, theory of perforator operation, the TT-252/UG typing perforator, punching, tapping, printing operation, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 4 semester hours in teletypewriter operation and repair (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in electromechanical technology (5/74).

NV-1715-0666
P-3TT-264/AG TELETYPewriter Group MAINTENANCE, NO. 20

Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.

Length: 3 weeks (120 hours).

Exhibit Dates: 3/68–Present.

Objectives: To train maintenance personnel to repair specific teletypewriters.

Instruction: Lectures and practical exercises in the servicing and maintenance of a teletypewriter. Course includes all elements of the teletypewriter system, including the operation and preventive maintenance of a specific teletypewriter. Course includes all elements of the teletypewriter system, including the operation and preventive maintenance of a specific teletypewriter.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electromechanical technology (5/74).

NV-1715-0667
5'54 RAPID FIRE MOUNT FUZZESETER, TRAIN AND ELEVATION (SERVO AMPLIFIER SYSTEM)

Course Number: K-041-2029.
Location: Fleet Training Center, San Diego, CA.

Length: 3 weeks (90 hours).

Exhibit Dates: 2/69–Present.

Objectives: To train enlisted personnel to operate and maintain a specific artillery fuzesetter and fire control equipment.

Instruction: Lectures and practical exercises in the operation and preventive maintenance of AC and DC control systems. Course includes power supplies and servo units, signal tracing, sequence control circuits, use of schematics, and the operation and maintenance of AC and DC amplifiers.

Credit Recommendation: In the vocational certificate category, 2 semester hours as an elective in electromechanical technology (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in electronic-mechanical technology (5/74).

NV-1715-0668
5'54 MOUNT RAPID FIRE M1 42 MOD 7 OPERATION AND MAINTENANCE

Course Number: J-041-0128; K-041-2056.
Location: Fleet Training Center, San Diego, CA.

Length: 3 weeks (90 hours).

Exhibit Dates: 10/71–Present.

Objectives: To train enlisted personnel to operate and maintain a gun mount.

Instruction: Lectures and practical exercises in the operation and maintenance of a gun mount. Course includes basic electricity, electrical control systems, and the general operation of a 5-inch gun mount.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic electricity (5/74).

NV-1715-0669
MARINE AIR TRAFFIC CONTROL UNIT MAINTENANCE, CLASS C

Course Number: Not available.
Location: Air Technical Training Center, Glynn, GA.

Length: 7 weeks (280 hours).


Objectives: To train enlisted personnel to operate, maintain, and repair specific AC generators and air conditioners.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of auxiliary equipment. Course includes simple DC circuits, conductors, insulators, resistors, inductance, capacitance, basic electrical indicating instruments, AC generators, transformers, AC motors, semiconductor fundamentals, rectifiers, starting currents, fault currents, battery chargers, circuits, and air conditioning fundamentals.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electrical and air conditioning fundamentals (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical and air conditioning fundamentals (3/74).

NV-1715-0670
1. AIR TRAFFIC CONTROL ELECTRONICS MAINTENANCE OFFICERS, CLASS O

GROUND CONTROLLED APPROACH/ RADAR AIR TRAFFIC CONTROL CENTER ELECTRONICS MAINTENANCE OFFICERS, CLASS O

Course Number: Not available.
Location: Air Technical Training Center, Natick, MA.


Objectives: To train electronics maintenance officers to supervise the installation, maintenance, and repair of air traffic control systems associated with ground-controlled approach units and air traffic control centers.

Instruction: Version 1: Lectures and practical exercises in the operation, maintenance, and repair of air traffic control systems associated with ground-controlled approach units and air traffic control centers. Course includes system siting, test equipment and inspections, communications, and maintenance procedures, and flight testing. Version 2: Includes system siting, research and development, and navigational aids.

Credit Recommendation: Version 1: In the vocational certificate category, 2 semester hours as an elective in electronic-mechanical technology (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in electronic-mechanical technology (5/74).

Credit Recommendation: Version 2: In the vocational certificate category, 2 semester hours as an elective in electronic-mechanical technology (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in electronic-mechanical technology (5/74).

NV-1715-0671
SP-2 AN/APS-208/E RADAR SET INTERMEDIATE MAINTENANCE COURSE

Course Number: Not available.
Location: Maintenance Training Detachment, North Island, CA.

Length: 6 weeks (240 hours).

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Exhibit Dates: 7/69-Present.
Objectives: To train maintenance personnel in the maintenance, repair, and functional testing of the AN/APS-20B/E radar set at the intermediate level.

Instruction: Lectures and practical exercises in the maintenance, repair, and functional testing of the AN/APS-20B/E radar set, including theory of operation of the AN/APS-20B/E; radar set control C-1449/APS-20B/E; low-voltage power supply PP-347/APS-20B/E; electrical synchronizer SN-55/APS-20B/E; transmitter T-466/APS-20B/E; high-voltage control; radar IF amplifier; receiver R-231/APS-20B/E and duplexer; and indicator IP-414-A/APA-125.

Credit Recommendation: In the vocational certificate category, credit in radar on the basis of institutional examination (6/74).

NV-1715-0672
E-2A AN/APS-96 SEARCH RADAR INTERMEDIATE MAINTENANCE
Course Number: C-102-3471.
Location: Air Maintenance Training Detachment, North Island, CA.

Exhibit Dates: 3/68-Present.
Objectives: To train personnel to maintain the AN/APS-96 search radar set at the intermediate and organizational levels.

Instruction: Lectures and practical exercises in the intermediate maintenance of the AN/APS-96 search radar, including transmit operation, receive operation, miscellaneous equipments functional description; introduction to pulse compression, doppler, and temporal theory; trigger timer and synchronizer theory; theory of operation of special delay line, radio frequency oscillator, radar receiver, radar modulator, and trigger pulse amplifier; power supplies; and control circuits, system emergency mode, and test operations.

Credit Recommendation: In the vocational certificate category, credit in radar on the basis of institutional examination (6/74).

NV-1715-0673
NAVAL TACTICAL DATA SYSTEM (NTDS) TRACKER/SUPERVISOR
Course Number: K-221-0039; K-221-1010.
Location: Fleet Anti-Air Warfare Training Center, San Diego, CA.
Length: 3 weeks (98 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train enlisted personnel to perform as detectors, trackers, identification operators, or track supervisors.

Instruction: Lectures and practical exercises in the Naval Tactical Data System (NTDS) including introduction to NTDS, NTDS block-diagram analysis, data display equipment, manual air tracking, surface tracking, radar tracking considerations, identification, IFF/SIF/PIM, track supervisor, system tracking, NTDS communications, universal keyset, navigational keyset, utility model data links, beacon-to-video processor, ECM supervisor, ECM keyset, height/size, and communication security and user overview.

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

NV-1715-0674
BASIC NAVAL TACTICAL DATA SYSTEM (NTDS) AIR INTERCEPT CONTROLLER
Course Number: K-221-0027; K-221-0027.
Location: Fleet Anti-Air Warfare Training Center, San Diego, CA.
Length: 6 weeks (173 hours).
Exhibit Dates: 6/72-Present.
Objectives: To train officers and radarmen to perform as basic NTDS air intercept controllers.

Instruction: Lectures and practical exercises in air intercept control, including fleet anti-air warfare, threat intelligence, interceptor air characteristic and air-to-air weapons systems, communication equipment, system tracking, identification equipment, control procedures, and preparation and procedures for NTDS control.

Credit Recommendation: In the vocational certificate category, credit in radar traffic control operation on the basis of institutional examination (6/74).

NV-1715-0675
MARK 105 UNDERWATER FIRE CONTROL SYSTEM (UWPCS) MOD 28
Course Number: Not available.
Location: Fleet Sonar Schools, Key West, FL; Fleet Sonar Schools, San Diego, CA.
Length: 2 weeks (507 hours).
Exhibit Dates: 2/68-Present.
Objectives: To train personnel in the maintenance of the Mk 105 Mod 11-23 underwater fire control system (UWPCS).

Instruction: Lectures and practical exercises in the maintenance of the Mk 105 11-23 UWPCS, including introduction to the weapon system; equipment testing; trouble analysis; basic component adjustments; angle solver mechanical components and special circuits; computer description, instrumentation, control, basic circuits, maintenance, operation, and troubleshooting; trainable fixed weapon data flow; Hezikia 20B/E; low-voltage power supply PP-41I/APS-20B/E; radar set control C-I449/APS-20B/E; transmitter T-466/APS-20B/E; high-voltage control; radar IF amplifier; receiver R-231/APS-20B/E and duplexer; and indicator IP-414-A/APA-125.

Credit Recommendation: Insufficient data for evaluation (6/74).

NV-1715-0676
ACOUSTIC ANTI-SUBMARINE OPERATOR TRANSITION
Course Number: E-210-53.
Location: Fleet Airborne Electronics Training Unit, Pacific, Moffett Field, CA.
Length: 3 weeks (98 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train the acoustic equipment in DIFAR equipment operation.

Instruction: Lectures and practical exercises in DIFAR equipment operation, including acoustic sensor signal generator and listening devices, sonobuoy receiver system, AN/AQA-7 systems analysis, signal flow, frequency spectrum, non-directional operation, range mode of operations, acoustic recorder/reproducer, time code generator, and capabilities of sensor station 1 and 2.

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

NV-1715-0677
SH-3 AN/AQS-13 SONAR MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Ream Field, FL; Air Maintenance Training Detachment, Key West, FL.
Length: 6 weeks (240 hours).
Exhibit Dates: 8/67-12/68.
Objectives: To train enlisted personnel to operate and maintain sonar systems.

Instruction: Lectures and practical exercises in the maintenance of a specific sonar system. Topics include sonar fundamentals, semiconductors theory and circuits, cathode ray tubes, CRT operation, power supply elements and operation and use of test equipment, and discussion of transmitters, receivers, transducers, display devices, amplifiers, resolvers, and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, credit in communications systems on the basis of institutional examination (6/74); in the lower-division baccalaureate/associate degree category, credit in communications systems on the basis of institutional examination (6/74); in the upper-division baccalaureate category, credit in communications on the basis of institutional examination (6/74).

NV-1715-0678
RADARMAT FOR NONACOUSTIC OPERATOR P3A/B (D)
Course Number: E-210-45.
Location: Fleet Aviation Specialized Operational Training Group, Pacific, Moffett Field, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train VP antisubmarine warfare sensor operators in the operation of nonacoustic sensors.

Instruction: Lectures and practical exercises in nonacoustic sensors, including magnetic environment, equipment familiarization and procedures, magnetic compensation equipment and procedures, MAD signal interpretation, AN/AIC-22 intercommunication system, navigation plotter familiarization and application of navigation principles, radar fundamentals, radar equipment components and operating procedures, airborne recognition equipment and preflight procedures, and radar tactical employment.

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

NV-1715-0679
NONACOUSTIC ANTI-SUBMARINE OPERATOR TRANSITION P3C (NONACOUSTIC OPERATOR TRANSITION)
Course Number: E-210-54.
Location: Fleet Aviation Specialized Operational Training Group, Pacific, Moffett Field, CA.
Length: 4 weeks (126 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train the nonacoustic AW operator in P3C procedures.

Instruction: Lectures and practical exercises in P3C procedures, including sensor stations; search and localization sensors; radar principles; radar navigation principles; magnetic environment principles;
NV-1715-0680

BASIC DENTAL REPAIR TECHNICIAN
(Dental Technician Repair, Class C)
(Dental Repair Technician, Basic)

Course Number: B-670-10.
Location: National Medical Center, Bethesda, MD.
Length: 24 weeks (900 hours).
Exhibit Dates: 6/55-Present.

Objectives: To train personnel to perform as basic dental repair technicians.

Instruction: Lectures and practical exercises in the maintenance and repair of dental prosthodontic laboratory equipment, including applied physics, repair of dental operating room equipment, repair of dental prosthetic laboratory equipment, instructor training, and petty officer leadership training.

Credit Recommendation: No credit because of the military nature of the course (6/74).

NV-1715-0681

TARTAR WEAPONS SYSTEM MISSILE FIRE
CONTROL SYSTEM Mk 74 Mod 0

Course Number: A-121-0023; A-121-0024.
Location: Guided Missiles School, Dam Neck, VA; Training Center, Mare Island, CA.
Length: 11 weeks (323 hours).
Exhibit Dates: 10/72-Present.

Objectives: To train senior petty officers on the Tartar missile weapons system.

Instruction: Lectures and practical exercises on Tartar weapons system missile fire control system Mk 74 Mod 0, including supplemental reports, introduction to OP3472, DDG weapons system, Tartar weapons system, system functional diagrams, system testing and casualty analysis, standard missile (MR), DDG battery alignment, ECM/ECCM, shipboard practices and exercises, and UHF TM system.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-1715-0682

F/RF-4B POWER GENERATING SYSTEM
MAINTENANCE

Course Number: C-602-182.
Location: Air Maintenance Training Detachment, El Toro, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/72-Present.

Objectives: To train strikers to maintain the power generating system of the F/RF-4B aircraft at the intermediate and organizational level.

Instruction: Lectures and practical exercises in F/RF-4B power generating system maintenance, including familiarization and circuit analysis of power generating system, circuit analysis, troubleshooting procedures and test equipment, electrical power generating system, alternating current generators, pumps and valves, and testing frequency and load control box and the generator control panel, and saturable current potential transformer.

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

NV-1715-0683

UH-2C, HH-2C, HH-2D AUTOMATIC
STABILIZATION EQUIPMENT
ORGANIZATIONAL MAINTENANCE

Course Number: C-602-3389.
Location: Air Navigation Device Training Detachment, Imperial Beach, CA.
Length: 4 weeks (112 hours).
Exhibit Dates: 6/72-Present.

Objectives: To train maintenance personnel to maintain and repair the automatic stabilization equipment installed on UH-2C, HH-2C, and HH-2D helicopters.

Instruction: Lectures and practical exercises in the organizational maintenance of UH-2C, HH-2C, and HH-2D automatic stabilization equipment, including introduction and theory of the automatic stabilization equipment system, operation and maintenance of the ASE channels; roll, pitch, and yaw channels; collective channel; and review and testing of the ASE system.

Credit Recommendation: In the vocational certificate category, 2 semester hours in the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68).

NV-1715-0684

SHIPBOARD DECOY SYSTEM (CHAFFROC)
LAUNCHER MAINTENANCE MK 28 MOD 1-5

Course Number: J-113-0103; J-041-1032; J-113-1032.
Location: Fleet Combat Direction Systems Training Center, Atlantic, Dam Neck, VA.
Length: 2 weeks (70 hours).
Exhibit Dates: 10/72-Present.

Objectives: To train maintenance personnel to operate and maintain a rocket-launching system, including loading, unloading, preventive maintenance, casualty analysis, and corrective maintenance.

Instruction: Lectures and practical exercises in the operation and maintenance of a rocket-launching system. Topics include basic electricity, basic hydraulics, hydraulic pumps and valves, and information pertaining to specific equipment. Coverage of the topics is very limited.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic technology (5/74).

NV-1715-0685

ADVANCED SONAR MAINTENANCE, 561
(CLASS B SONARMAN)

Course Number: 561.
Location: Fleet Sonar School, San Diego, CA.
Length: 18 weeks (596 hours).
Exhibit Dates: 7/55-12/68.

NV-1715-0686

RA-5C AN/ALQ-61 COUNTERMEASURES
SET SPECIAL SUPPORT EQUIPMENT

Course Number: Not available.
Location: Air Maintenance Training Detachment, Sanford, FL; Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 8 weeks (320 hours).
Exhibit Dates: 2/67-12/68.

Objectives: To train enlisted personnel to operate, maintain, and service specific countermeasures equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of the AN/ALQ-61 countermeasures set, including line test, shop test, and calibration procedures for the countermeasures test set.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in electronics laboratory (6/74).

NV-1715-0687

RA-5C AN/ALQ-55 DECM SYSTEM

Course Number: Not available.
Location: Air Maintenance Training Detachment, Sanford, FL; Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 8 weeks (320 hours).
Exhibit Dates: 2/67-12/68.

Objectives: To train maintenance personnel to service and maintain specific electronic equipment.

Instruction: Lectures and practical exercises in the service and maintenance procedures for specific electronic equipment. Topics include system functional analysis, preamplifier and mult coupler, RF circuitry, synchronizers, receivers, high-resolution module, jam frequency generators, and an introduction to logic. Foundation material in digital fundamentals and circuitry is included in the course.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics, 2 in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 1 in electrical laboratory (12/68).

NV-1715-0688

F-8 COMMUNICATION NAVIGATION AND
IDENTIFICATION (CNI) SYSTEMS
ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3859; C-102-306.
Location: Air Maintenance, Training Detachment, Miramar, CA.
COURSE EXHIBITS

Length: 2 weeks (60-80 hours).
Exhibit Dates: 3/70-Present.
Objectives: To train maintenance personnel to handle operational data flow and to maintain the F-8 aircraft's communications, navigation, and identification systems.

In the course, lectures and practical exercises in the organizational maintenance of the F-8 aircraft's communications, navigation, and identification systems, including information electronics systems, automatic radio direction finders, radar altimeter, block diagram analysis, of the TACAN system and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical basic laboratory (6/74).

NV-1715-0689

SUBMARINE SONAR SUBJECTIVE ANALYSIS (SSA)

Course Number: A-130-0020; F-130-020.
Location: Submarine School, New London, CT; Submarine Training Center, Pacific, Pearl Harbor, HI; Fleet Ballistic Missile Submarine Training Center, Charleston, SC.
Length: 4-5 weeks (120-150 hours).
Exhibit Dates: 12/69-Present.
Objectives: To provide submarine technicians with advanced training in the analysis and classification of underwater sonar information.

Instruction: Lectures and practical exercises in the analysis and classification of underwater sonar information, including security, acoustic intercept, use of filters, tone-finding techniques, diesel submarines, patrol craft, warships, analysis of target and non-target noise, and principles of magnetic tape recording.

Credit Recommendation: No credit because of the military-specific nature of the course (9/74).

NV-1715-0690

COMMUNICATIONS QUALITY MONITORING SYSTEM OPERATOR

Course Number: A-201-0020.
Location: Service Schools Command, San Diego, CA.
Length: 2 weeks (60 hours).
Exhibit Dates: 10/71-Present.
Objectives: To train enlisted personnel to monitor the performance of operational communications systems.

Instruction: Lectures and practical exercises in the duties and skills necessary to perform as communications quality monitoring systems operators, including fundamentals of communications, teletype terminology, audio techniques, quality control methods, and systems applications.

Credit Recommendation: In the vocational certificate category, 1 semester hour in basic electrical laboratory (6/74).

NV-1715-0691

A-6A WEAPONS SYSTEM SPECIALIST

ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3954; C-000-3764.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, Oceana, VA.
Length: 10-12 weeks (400-480 hours).

Exhibit Dates: 9/71-Present.
Objectives: To train enlisted personnel to maintain the A-6A aircraft.

Instruction: Lectures and practical exercises in the maintenance of the A-6A weapons system, including aircraft systems familiarization, ballistics computer, radar systems, DIANE system operation and test, diagnostic techniques, and troubleshooting procedures. Course provides good introduction to digital systems and basic digital computer theory.

Credit Recommendation: In the vocational certificate category, 3 semester hours in computer fundamentals and systems, 1 in computer systems laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer fundamentals and systems, 1 in computer systems laboratory (6/74).

NV-1715-0692

ADVANCED SONAR, 567

Course Number: 567.
Location: Fleet Sonar School, Key West, FL.
Length: 14 weeks (558 hours).
Exhibit Dates: 10/72-12/68.
Objectives: To train experienced personnel to operate, maintain, and repair specific sonar and ancillary equipment.

Instruction: Lectures and practical exercises in sonar maintenance at the advanced level. Course includes brief and basic coverage of electricity, special electronic circuits, and meter theory.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical laboratory (6/74).

NV-1715-0693

TERRIER RADAR SET AN/SPG-55B CONTINUOUS WAVE ACQUISITION AND TRACKING (CWAT)

Course Number: A-104-0135.
Location: Guided Missiles School, Dam Neck, VA.
Length: 8 weeks (309 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train experienced personnel to operate and maintain a specific radar set.

Instruction: Lectures and practical exercises in the maintenance and operation of the AN/SPG-55B radar set and specialized electronic test equipment, including differential voltmeters, pulse generators, VSWR indicators, spectrum analyzers, digital voltmeters and counters, square wave generators, and continuous wave radio frequency analyzers.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (6/74).

NV-1715-0694

ADVANCED SONAR, 557

Course Number: 557.
Location: Fleet Sonar School, Key West, FL.
Length: 11 weeks (440 hours).
Exhibit Dates: 7/57-12/68.
Objectives: To train inexperienced personnel to operate and learn advanced sonar techniques.

Instruction: Lectures and practical exercises in the operation of sonar equipment at an advanced level. Topics include basic mathematics, basic fire control, elementary wiring diagrams, and testing, calibration, and maintenance of fire control systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (12/68).

NV-1715-0695

P-3 AN/APS-80 SEARCH RADAR SYSTEM MAINTENANCE, 49

Course Number: Not available.
Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA.
Length: 3 weeks (136 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train experienced technicians to maintain the AN/APS-80 search radar at the organizational and intermediate levels.

Instruction: Lectures and practical exercises in the maintenance and alignment procedures for the AN/APS-80 search radar system, including introduction to the P-3 search radar system; dual radar installation in the P-3; antennas azimuth and tilt systems; dual installation switching arrangement; P-3 radar system alignment; modulator power supply, electronic synchronizer; AC power distribution; and TR tube and associated circuitry.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics, 1 in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics, and additional credit in electronics on the basis of institutional examination (6/74).

NV-1715-0696

AVIATION ANTISUBMARINE WARFARE (AASW) SENSOR STATION THREE OPERATOR, P3C (AASW) ANTIennifer WARFARE (AASW) NONACOUSTIC OPERATOR P3C

Course Number: E-210-0050; E-210-050.
Location: Fleet Aviation Specialized Operational Training Group, Moffett Field, CA.
Length: 3-4 weeks (105-126 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train VP antisubmarine warfare operators in the operation of nonacoustic equipment.

Instruction: Lectures and practical exercises in nonacoustic equipment, including operation; intercept procedures; terminology; and applications and skills of scope interpretation, including maintenance station duties and techniques, equipment operation, search and localization sensors, radar principles, radar navigation principles, magnetic environment principles, electronic warfare principles, and electronic intelligence recognition.

Credit Recommendation: No credit because of the military nature of the course (6/74).
NV-1715-0697
SH-2D LAMPS AVIONIC EQUIPMENT ORGANIZATIONAL MAINTENANCE
Course Number: C-102-3376.
Location: Air Maintenance Training Detachment, Lakehurst, NJ; Air Maintenance Training Detachment, Imperial Beach, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train fleet maintenance personnel in the maintenance of SH-2D avionics equipment.
Instruction: Lectures and practical exercises in the maintenance of SH-2D avionics equipment, including LAMPS organizational maintenance, radar/ESM, antisubmarine warfare, communications/navigation equipment, systems operation and analysis, troubleshooting and repair, use of test equipment, publications, and safety procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics maintenance (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics maintenance (6/74).

NV-1715-0698
AVIATION SUPPORT EQUIPMENT NC-10B MOBILE ELECTRIC POWER PLANT SYSTEMS INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, North Island, CA.
Length: 3 weeks (80 hours).
Exhibit Dates: 2/70- Present.
Objectives: To train aviation support equipment technicians to perform intermediate maintenance on the systems of the NC-10B electric power plant.
Instruction: Lectures and practical exercises in the maintenance of NC-10B electric power plants, including NC-10B mechanical systems, maintenance, electrical systems, component removal and replacement, and troubleshooting and adjustments.
Credit Recommendation: In the vocational certificate category, 1 semester hour in support equipment maintenance (6/74).

NV-1715-0699
A-6A AUTOMATIC FLIGHT CONTROL SYSTEM INTERMEDIATE MAINTENANCE
Course Number: Not available.
Location: Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Whidbey Island, WA.
Length: 7 weeks (280 hours).
Exhibit Dates: 3/66-Present.
Objectives: To train maintenance personnel to maintain, test, and troubleshoot the AN/ASW-16 automatic flight control system and the flight control test console at the intermediate maintenance level.
Instruction: Lectures and practical exercises in the AN/ASW-16 automatic flight control system and the flight control test console, including introduction to semi-automated checkout equipment, operation and maintenance of the air data computer, operational theory of the air navigation computer and related components, and maintenance of the automatic flight control system.
Credit Recommendation: In the vocational certificate category, 10 semester hours in electronic and electrical systems (6/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in electrical and electronic systems (6/74).

NV-1715-0700
AVIATION SUPPORT EQUIPMENT NC-2A MOBILE ELECTRIC POWER PLANT INTERMEDIATE MAINTENANCE
Course Number: C-602-3226.
Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, North Island, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 6/71-Present.
Objectives: To train aviation support equipment technicians to perform maintenance on the NC-2A mobile electric power plant.
Instruction: Lectures and practical exercises in the maintenance of the NC-2A mobile electric power plant, including introduction to NC-2A familiarization; electrical systems; NC-2A electrical description and theory of operation; line troubleshooting; and bench test, repair, and adjustment.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electrical support equipment maintenance (6/74).

NV-1715-0701
F-4J RT-793/ASQ UHF TRANSCIEVER INTERMEDIATE MAINTENANCE
Course Number: C-102-218.
Location: Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC; Air Maintenance Training Detachment, El Toro, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 9/70- Present.
Objectives: To train personnel in the intermediate maintenance of the RT-793/ASQ UHF transceiver.
Instruction: Lectures and practical exercises in the intermediate maintenance of the RT-793/ASQ UHF transceiver, including theory of operation, and laboratory and maintenance procedures.
Credit Recommendation: In the vocational certificate category, 2 semester hours in avionics maintenance technology (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in avionics maintenance technology (6/74).

NV-1715-0702
SPARROW III, SIDEWINDER, SHRIKE, AND WALLEYE GUIDED MISSILE TEST EQUIPMENT, INTERMEDIATE MAINTENANCE (SHORE)
Course Number: C-122-3110.
Location: Air Maintenance Training Detachment, Jacksonville, FL; Air Maintenance Training Detachment, North Island, CA.
Length: 7 weeks (280 hours).
Exhibit Dates: 4/73-Present.

NV-1715-0703
TARTAR FIRE CONTROL AND MISSILE OFFICER
Course Number: A-2F-0010.
Location: Guided Missiles School, Dam Neck, VA.
Length: 13 weeks (331 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train commissioned officers to maintain, operate, and handle logistics for Tartar missile systems.
Instruction: Lectures and practical exercises in the maintenance and operation of Tartar missile systems. Course includes the capabilities and characteristics of the Tartar missile systems, with strong emphasis on weapons system employment, firing considerations, and operation of various radar systems.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical systems (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electrical systems (6/74).

NV-1715-0704
DIFAR TRAINING FOR ACOUSTIC OPERATORS P3A/B(D) and P3C (JEZEBEL GRAM ANALYZER FOR AW's P3A/B (DIFAR Retrofit))
Course Number: E-210-42.
Location: Fleet Airborne Electronics Training Unit, Pacific, Moffett Field, CA.
Length: 6 weeks (203-224 hours).
Exhibit Dates: 10/71-Present.
Objectives: To train enlisted personnel in acoustic detection techniques for qualification as a sensor station operator aboard P3A/B (DIFAR Retrofit) aircraft.
Instruction: Lectures and practical exercises in acoustic detection techniques for qualification as a sensor station operator aboard P3A/B (DIFAR Retrofit) aircraft. Course includes Jezebel fundamental analysis, procedures, aural listening techniques, acoustic listening devices, and specialized test equipment.
Credit Recommendation: No credit because of the military nature of the course (6/74).

NV-1715-0705
POLARIS ELECTRONICS, CLASS A
Course Number: Version 1: A-121-0142; A-121-142. All Versions: A-000-037.
Location: Guided Missiles School, Dam Neck, VA.
**1-238 COURSE EXHIBITS**

**Exhibit Dates:** Version 1: 1/67-Present.

**Objectives:** To train technicians to be Polaris missile technicians.

**Instruction:** Lectures and practical exercises in Polaris missile technology, including basic electrical theory, transistor circuit analysis, modern digital computer circuits and logic operations, inertial guidance theory, radar, sonar, and communications fire control.

**Credit Recommendation:** Version 1: In the vocational certificate category, 25 semester hours in electronics or computer technology (6/74); in the lower-division baccalaureate/associate degree category, 12 semester hours in electronics or computer technology (6/74); in the upper-division baccalaureate category, 3 semester hours as an elective in digital computer fundamentals, or electrical or electronics laboratory (6/74). Version 2: In the vocational certificate category, 20 semester hours in electronics or computer technology (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in electrical or electronics laboratory (6/74).

**NV-1715-0706**

**P-4J AN/AWG-10 MISSILE CONTROL DISPLAY AND BUILT-IN TEST (BIT) INTERMEDIATE MAINTENANCE**

**Course Number:** C-602-3818.

**Location:** Air Maintenance Training Detachment, Miramar, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Oceana, VA; Air Maintenance Training Detachment, Cherry Point, NC.

**Length:** 5-6 weeks (200-240 hours).

**Exhibit Dates:** 1/71-Present.

**Objectives:** To train maintenance personnel to maintain the AN/AWG-10 missile control display and built-in test.

**Instruction:** Lectures and practical exercises in the maintenance of the AN/AWG-10 missile control display and built-in test. Course includes inspection techniques, troubleshooting procedures, the missile auxiliary generator, and topics on basic computer control of servo systems.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in basic computers and/or servo laboratory (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic computers and/or servo laboratory (6/74).

**NV-1715-0707**

**APA-56 INDICATOR ASSEMBLY**

**Course Number:** D-100-012.

**Location:** Oceanographic Air Survey Unit, Patuxent River, MD.

**Length:** 3 weeks (90 hours).

**Exhibit Dates:** 12/66-12/68.

**Objectives:** To train enlisted personnel to operate, maintain, adjust, and troubleshoot the APA-56 indicator and associated test equipment.

**Instruction:** Lectures and practical exercises in the maintenance, adjustment, and troubleshooting of the APA-56 indicator and associated test equipment, including power supplies, circuit analysis, signal distributor, console indicators, relay priority system, camera PPI and grid map converter.

**Credit Recommendation:** No credit because of the limited technical nature of the course (6/74).

**NV-1715-0708**

**CENTRAL GYRO REFERENCE SYSTEM (AN/AJA-2), CLASS C**

**Course Number:** D-602-017.

**Location:** Oceanographic Air Survey Unit, Patuxent River, MD.

**Length:** 3 weeks (90 hours).

**Exhibit Dates:** 12/66-12/68.

**Objectives:** To train aviation electricians to operate, maintain, and troubleshoot the AN/AJA-2 central gyro reference system.

**Instruction:** Lectures and practical exercises in the operation, maintenance, and troubleshooting of the AN/AJA-2 central gyro reference system, including review of basic electronics and electronics pertaining to the central gyro reference system, definition of terms and descriptions of equipment, three-gyro-stable platform, timing and functional operations, detailed circuit analysis and predig light procedures.

**Credit Recommendation:** No credit because of the limited technical nature of the course (6/74).

**NV-1715-0709**

**E-2A INERTIAL NAVIGATION SYSTEM AN/ASN-36 MAINTENANCE**

**Course Number:** Not available.

**Location:** Air Maintenance Training Detachment, North Island, CA.

**Length:** 6 weeks (240 hours).

**Exhibit Dates:** 3/68-Present.

**Objectives:** To train enlisted personnel to maintain the AN/SN-36 inertial navigation system.

**Instruction:** Lectures and practical exercises in the maintenance of the AN/SN-36 inertial navigation system. Topics include gyroscopes, accelerometers, servo platform, stabilization, control servos, control and navigation computer, analog-to-digital encoders, and analog and digital computations (functional approach only).

**Credit Recommendation:** In the vocational certificate category, 5 semester hours in electrical and/or mechanical technology (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical and/or mechanical technology (7/74); in the upper-division baccalaureate category, 1 semester hour in electrical and/or mechanical technology on the basis of institutional examination (7/74).

**NV-1715-0710**

**AN/ARC-51, SIA AND SIAX COMMUNICATION SYSTEMS INTERMEDIATE MAINTENANCE (P-3 AN/ARC-51 SIA COMMUNICATION SYSTEMS MAINTENANCE, NO. 22)**

**Course Number:** Not available.

**Location:** Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Kingsville, TX; Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Camp Pitch, CA; Air Maintenance Training Detachment, Key West, FL; Air Maintenance Training Detachment, Imperial Beach, CA.

**Length:** 2 weeks (80-96 hours).

**Exhibit Dates:** 1/68-Present.

**Objectives:** To train enlisted personnel to maintain, operate, and troubleshoot the AN/ARC-51, SIA and SIAX communication systems.

**Instruction:** Lectures and practical exercises in the maintenance, operation, and troubleshooting of the AN/ARC-51, SIA and SIAX communication systems, including block-diagram analysis of transceivers.

**Credit Recommendation:** In the vocational certificate category, 1 semester hour in electronics laboratory (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory on the basis of institutional examination (7/74).

**NV-1715-0711**

**ADVANCED SONAR COURSE 566**

**Course Number:** 566.

**Location:** Fleet Sonar School, Key West, FL.

**Length:** 5-6 weeks (225 hours).

**Exhibit Dates:** 10/57-12/68.

**Objectives:** To train enlisted personnel to maintain, calibrate, and operate sonar equipment.

**Instruction:** Lectures and practical exercises in the maintenance, calibration, and operation of sonar equipment at the advanced level. Course includes a review of mathematics, electricity, receivers, transmitters, and circuits.

**Credit Recommendation:** In the vocational certificate category, 1 semester hour in electrical laboratory on the basis of institutional examination (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (7/74).

**NV-1715-0712**

**MISSILE TECHNICIAN, CLASS B (CLASS B GUIDED MISSILEMAN)**

**Course Number:** Not available.

**Location:** Guided Missile School, Dam Neck, VA.

**Length:** 38-41 weeks (1,140-1,435 hours).

**Exhibit Dates:** 3/61-Present.

**Objectives:** To provide the student with the technical background in mathematics, physics, and electronics necessary to analyze the operational capabilities and limitations of a complex missile weapon systems.

**Instruction:** Lectures and practical exercises in technical mathematics, physics, and electronics. The mathematics instruction covers algebra, trigonometry, and basic calculus. Physics topics include mechanics, with emphasis on missile trajectories and the properties of matter, heat, light, sound, electricity, and magnetism. In the electronics section, DC and AC circuits, vacuum tubes, semiconductors, amplifiers, and waveforms are covered. The techniques of pulse modulation are studied. In addition, computer fundamentals are presented. A sig-
significant part of the program is devoted to inertial components and weapon systems.

Credit Recommendation: In the vocational certificate category, 3 semester hours in mathematics, 4 in physics, 3 in electronics, 3 in electricity, and, on the basis of institutional examination, additional credit in electronics laboratory (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in mathematics, 4 in physics, 3 in electricity or electronics, and, on the basis of institutional examination, additional credit in electrical laboratory (12/68).

**NV-1715-0713**

**CARRIER AIR TRAFFIC CONTROL CENTER**

**EQUIPMENT MAINTENANCE, AN/SPN-6 AND AN/SPN-12 (XN-4), CLASS C**

**Course Number:** Not available.

**Location:** Air Technical Training Center, Glynco, GA.

**Length:** 3 weeks (120 hours).

**Exhibit Dates:** 2/65-12/68.

**Objectives:** To train selected electronics technicians to operate AN/SPN-6 and AN/SPN-12 (XN-4) air traffic control electronic equipment.

**Instruction:** Lectures and practical exercises in operation of air traffic control electronic equipment. Course includes transmitters and receivers, antenna stabilization, and air speed radar operation.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (7/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (7/74).

**NV-1715-0715**

**CARRIER AIR TRAFFIC CONTROL CENTER**

**EQUIPMENT MAINTENANCE, AN/SPN-35A AND AN/SPN-35, CLASS C**

**Course Number:** Not available.

**Location:** Air Technical Training Center, Glynco, GA.

**Length:** 6-9 weeks (312-360 hours).

**Exhibit Dates:** 2/65-12/68.

**Objectives:** To train graduates of electronics technicians school, class A, in the operation and maintenance of specific radar sets and associated auxiliary electronic equipment.

**Instruction:** Lectures and practical exercises in operation and maintenance of specific radar sets and associated electronic equipment, including radar circuit theory, radar transmitters, receivers, antenna stabilization, indicators, system alignment, AN/SPN-35A modifications, and differences between AN/SPN-35A and AN/SPN-35 radar sets.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in electronics laboratory (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronic laboratory (7/74); in the upper-division baccalaureate category, 3 semester hours in electronic laboratory (7/74).

**NV-1715-0716**

**ADVANCED UNDERSSEA WEAPONS CIRCUITS**

**Course Number:** A-123-0129; A-123-119.

**Location:** Naval Training Center, Orlando, FL; Advanced Undersea Weapons School, Key West, FL; Fleet Anti-Submarine Warfare School, Key West, FL.

**Length:** 6 weeks (210 hours).

**Exhibit Dates:** 2/65-12/68.

**Objectives:** To train enlisted personnel in advanced undersea weapons circuits.

**Instruction:** Lectures and practical exercises in advanced undersea weapons circuits, including basic principles of transducer operation, antenna circuits, basic transmitter circuitry, and principles of receiver operation, transmitters and transducers, theory of vacuum tube operation, methods of biasing vacuum tubes, troubleshooting power supplies, detector circuits, electronic test equipment, troubleshooting powers, oscillator circuits, basic transmitter circuitry, and principles of transducer operation.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory for non-electrical-engineering students (6/74).

**NV-1715-0717**

**ADVANCED UNDERSSEA WEAPONS CIRCUITS**

**Course Number:** A-123-0131.

**Location:** Advanced Undersea Weapons School, Orlando, FL; Fleet Anti-Submarine Warfare School, Key West, FL; Fleet Anti-Submarine Warfare School, San Diego, CA.

**Length:** 12 weeks (420 hours).

**Exhibit Dates:** 6/70-9/70.

**Objectives:** To train torpedoman's mates in intermediate electronics maintenance.

**Instruction:** Lectures and practical exercises in electronics maintenance, including basic principles of electronic circuits, principles of receiver operation, transmitters and transducers, theory of vacuum tube operation, methods of biasing vacuum tubes, troubleshooting amplifiers, detector circuits, electronic test equipment, troubleshooting power supplies, oscillator circuits, basic transmitter circuitry, and principles of transducer operation.

**Credit Recommendation:** In the vocational certificate category, 4 semester hours in electrical laboratory (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (6/74); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory for non-electrical-engineering students (6/74).
1--240 COURSE EXHIBITS

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

NV-1715-0720
TORPEDOMAN'S MATE, CLASS A
(TORPEDOMAN'S MATE, CLASS A, SUB-MARINE)

Course Number: A-123-0127.
Location: Naval Training Center, Orlando, FL.; Advanced Undersea Weapons School, Key West, FL.; Fleet Anti-Submarine Warfare School, San Diego, CA.
Length: 6 weeks (228--257 hours).
Exhibit Dates: 6/70--Present.

Objectives: To train enlisted personnel as torpedoman's mates.

Instruction: Lectures and practical exercises in submarine weapons, including introduction to explosives, specific torpedoes, introduction to SUBROC missile, specific submerged torpedo tubes, and torpedo tube loading procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

NV-1715-0721
ELECTRONICS OFFICERS ADMINISTRATIVE

Course Number: Not available.
Location: Electronics Officers, School, Great Lakes, IL.
Length: 14 weeks (420 hours).
Exhibit Dates: 9/57--12/58.

Objectives: To train junior officers to maintain and repair sonar, radar, and loran equipment; to administer the operation of electronics installations; and to conduct training programs for ET strikers.

Instruction: Lectures and practical exercises in the maintenance and repair of loran, sonar, radar, and other miscellaneous electronic equipment. Course includes fundamentals of electricity and vacuum tube electronics as well as a description of radar, loran, and sonar systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electricity and electronics (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic instrumentation laboratory (6/74).

NV-1715-0722
ELECTRONICS TECHNICIAN, CLASS A--A-1
(ELECTRONIC FUNDAMENTALS)

Course Number: A-100-0012.
Location: Electronics Technician Class A School, Great Lakes, IL.; Electronics Technician Class A School, Treasure Island, CA.

Length: Version 1: 10 weeks (364 hours).
Version 2: 13--14 weeks (390--420 hours).


Objectives: To train enlisted personnel who are graduates of a basic electricity and electronics course to perform as electronics technicians.

Instruction: All Versions: Lectures and practical exercises in the operation, maintenance, and repair of radar-related electronic equipment, including pulse circuits, timing circuits, multipliers, clippers and counters, cathode followers, transistor printed-circuit training device, oscilloscope circuits, microwave circuits, and radar timers and modulators. Version 1: Also covers control panels, electronic amplifiers, Boolean algebra and simplified digital circuits.

Credit Recommendation: Version 1: In the vocational certificate category, 6 semester hours in radar systems (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems (9/77). Version 2: In the vocational certificate category, 10 semester hours in electricity and electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electronics instrumentation laboratory for engineers or physical science majors, or 2 in applied electronics for non-engineering students (6/74).

NV-1715-0723
ELECTRONICS TECHNICIAN, CLASS A--A-2
(ELECTRONIC CIRCUIT APPLICATIONS)

Location: Electronics Technician Class A School, Great Lakes, IL.; Electronics Technician Class A School, Treasure Island, CA.

Length: Version 1: 7 weeks (257 hours).
Version 2: 9--12 weeks (270--368 hours).


Objectives: To train enlisted personnel who are graduates of a basic electricity and electronics course to perform as electronics technicians.

Instruction: All Versions: Lectures and practical exercises in the operation, maintenance, and repair of radar-related electronic equipment, including pulse circuits, timing circuits, multipliers, clippers and counters, cathode followers, transistor printed-circuit training device, oscilloscope circuits, microwave circuits, and radar timers and modulators. Version 1: Also covers control panels, electronic amplifiers, Boolean algebra and simplified digital circuits.

Credit Recommendation: Version 1: In the vocational certificate category, 6 semester hours in radar systems (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in radar systems (9/77). Version 2: In the vocational certificate category, 10 semester hours in electricity and electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electronics instrumentation laboratory (6/74).

NV-1715-0724
ELECTRONICS TECHNICIAN, CLASS A--A-3
(COMMUNICATIONS)

Location: Electronics Technician Class A School, Great Lakes, IL.; Electronics Technician Class A School, Treasure Island, CA.
Length: 24--26 weeks (720--780 hours).
Exhibit Dates: 1/54--5/62.
NV-1715-0728

GUN FIRE CONTROL SYSTEM (GFCS), Mk 37, Mk 68, Mk 56 RADAR SIGNAL PROCESSING EQUIPMENT (RSPE) MAINTENANCE

Course Number: K-113-158
Location: Fleet Training Center, San Diego, CA.
Length: 6 weeks (180 hours)
Exhibit Dates: 6/71-4/72
Objectives: To train technicians to operate and maintain radar gun control systems, including GFCS Mk 37, Mk 68, and Mk 56.

Instruction: Lectures and practical exercises in the operation and maintenance of radar gun control systems. Course includes review of basic transistor electronics, primary radar circuitry including IF detection and amplification, automatic target range acquisition and tracking, and logic circuits.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics (6/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (6/74); in the upper-division baccalaureate category, 1 semester hour in electronic instrumentation or radio laboratory for electrical engineering students (6/74).

NV-1715-0729

INTERIOR COMMUNICATION ELECTRICIANS, CLASS A (IC ELECTRICIANS, CLASS A)

Course Number: Not available.
Location: Interior Communication Electricians, Class A School, Great Lakes, IL.
Length: 18 weeks (510 hours)
Exhibit Dates: 11/65-12/68
Objectives: To train technicians to operate, maintain and repair shipboard interior communications equipment.

Instruction: Lectures and practical exercises in operation, maintenance, and repair of shipboard interior communications systems and equipment. Course includes D/C power theory, audio amplifiers, magnetic amplifiers and gyroscopic equipment, block diagrams, signal tracing, and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 12 semester hours in electricity or electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as a technical elective in electronics instrumentation for non-electrical-engineering majors, or 2 semester hours in electronic instrumentation or radio laboratory for electrical engineering students (6/74).

NV-1715-0730

ELECTRONICS TECHNICIAN, CLASS A (COMMUNICATIONS)

Course Number: Not available.
Location: Electronics Technician, Class A, School, Great Lakes, IL.
Length: 38 weeks (1140 hours)
Exhibit Dates: 6/62-4/66
Objectives: To train personnel to maintain a variety of Naval electronic equipment.

Instruction: Lectures and practical exercises in the maintenance of Naval electronic equipment, including electronic fundamentals, electronic circuit fundamentals, transmitter and receiver applications, pulse techniques, control systems, microwave techniques, electronic equipment, communication receivers and transmitters, telephone terminal equipment, and single-track equipment.

Credit Recommendation: In the vocational certificate category, 28 semester hours in electricity and electronics (6/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in physics (electricity); in the upper-division baccalaureate category, 6 semester hours in electronics for non-engineering majors, 3 as a technical elective in electronics or electrical engineering majors, and 1 in instrumentation laboratory for electrical engineering students (6/74).

NV-1715-0731

ELECTRONICS TECHNICIAN, CLASS A (RADAR)

Course Number: Not available.
Location: Electronics Technician, Class A School, Great Lakes, IL.
Length: 38 weeks (1140 hours)
Exhibit Dates: 6/62-4/66
Objectives: To train personnel to maintain electronic equipment.

Instruction: Lectures and practical exercises in the maintenance of electronic equipment, including radar equipment fundamentals, multivibrators, synchronization, oscillators, magnetrons, klystrons, choppers, limiters, and clippers; introduction to radar equipment, primary power distribution, modulator, transmitter, RF system and duplexer, receiver and adapter indicator, radar set control; antenna and synchro systems; equipment review; and block diagram of a specific radar set.

Credit Recommendation: In the vocational certificate category, 28 semester hours in electricity and electronics (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 6 semester hours in electricity and electronics for non-engineering students, 3 as a technical elective for non-electrical-engineering students, 1 in Instrumentation laboratory for electronic engineers (6/74).

NV-1715-0732

RA-5C FLIGHT CONTROL SYSTEM

ELECTRONICS (INTERMEDIATE MAINTENANCE)

Course Number: Not available.
Location: Air Maintenance Training Detachment, Sanford, FL.
Length: 6 weeks (240 hours)
Exhibit Dates: 9/67-Present
Objectives: To train maintenance personnel to maintain and service the RA-5C flight control system.

Instruction: Lectures and practical exercises in the maintenance of the RA-5C flight control system. Course includes hydraulic and airflow systems, directional control systems, flight control systems, and use of training units, meters, and oscilloscopes.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electrical laboratory (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (7/74).

NV-1715-0733

A-4 WALL EYE WEAPON DELIVERY SYSTEM

ELECTRONICS MAINTENANCE

Course Number: Not available.
Location: A-4 Weapon Delivery System Maintenance, Lemoore, CA.
Length: 3 weeks (120 hours)
Exhibit Dates: 11/67-Present
Objectives: To train enlisted personnel to maintain and repair the Walleye weapons system.

Instruction: Lectures and practical exercises in the maintenance and repair of the Walleye weapons system. Course includes logic systems, power generators, instrumentation usage, system familiarization, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1715-0734

TT-299B/UG TELETYPEWRITER SET MAINTENANCE (ENLISTED)

Course Number: F-101-018
Location: Submarine School, Groton, CT.
Length: 4 weeks (120 hours)
Exhibit Dates: 8/67-12/68
Objectives: To train submarine radio-men and submarine tender personnel to repair the TT-299B/UG teleprinter set.

Instruction: Lectures and practical exercises in planned and corrective maintenance of a specific teleprinter set, including introduction to specific teleprinter set, mechanical function of the keyboard; nomenclature; analysis of the printer main shaft; electromechanical function of the magnetic selector; functional
NV-1715-0735
AUTOMATIC ELECTRIC—SWITCHING TELEPHONE SYSTEMS
MILITARY MAINTENANCE, CLASS C1

Course Number: A-623-0044.
Location: Service School Command, Oat Lakes, CA.
Length: 6 weeks (173 hours).
Exhibit Dates: 12/74-Present.
Objectives: To train personnel in the design, operation, and repair of automatic electric switching telephone systems.
Instruction: Lectures and practical exercises in the design, operation, and repair of telephone switching systems, including fault location and analysis, and the operation of various switching systems.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory.

NV-1715-0736
KC-130-F S-5 AUTOMATIC PILOT AND RELATED INSTRUMENTS
INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Moffett Field, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 7/68-Present.
Objectives: To train enlisted personnel in the troubleshooting and repair of automatic pilot systems.
Instruction: Lectures and practical exercises in the troubleshooting and repair of automatic pilot systems, including electronics, systems, and troubleshooting techniques.
Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0737
F-8 AUTOMATIC FLIGHT CONTROL SYSTEM
INTERMEDIATE MAINTENANCE

Course Number: Not available.
Location: Air Maintenance Training Detachment, Miramar, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 11/70-Present.
Objectives: To train maintenance personnel in the troubleshooting and repair of automatic flight control systems.
Instruction: Lectures and practical exercises in the troubleshooting and repair of automatic flight control systems, including electronics, systems, and troubleshooting techniques.
Credit Recommendation: No credit because of the limited technical nature of the course.

NV-1715-0738
H-53 AUTOMATIC FLIGHT CONTROLS
SYSTEMS INTERMEDIATE MAINTENANCE

Course Number: C-602-3442.
Location: Air Maintenance Training Detachment, Santa Ana, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 5/70-Present.
Objectives: To train enlisted personnel who have had previous training in automatic flight control systems in the H-53 aircraft.
Instruction: Lectures and practical exercises in the operation and maintenance of the automatic flight control system in the H-53 aircraft.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory.

NV-1715-0740
MINE DETECTION SONAR TECHNICAL MAINTENANCE

Course Number: C-570.
Location: Fleet Sonar School, San Diego, CA.
Length: 4 weeks (120 hours).
Exhibit Dates: 4/55-12/68.
Objectives: To train enlisted personnel in the electronic systems and troubleshooting techniques used in mine detection sonar.
Instruction: Lectures and practical exercises in the operation, testing, and repair of mine detection sonar.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory.

NV-1715-0774
NAVAL AIR WEAPONS SYSTEMS ORIENTATION, CLASS O

Course Number: Not available.
Location: Air Technical Training Center, Jacksonville, FL.
Length: 8 weeks (320 hours).
Exhibit Dates: 8/59-12/68.
Objectives: To train maintenance personnel in the operation and repair of naval air weapons systems in operational aircraft squadrons.
Instruction: Lectures and practical exercises in naval air weapons systems maintenance, including weapons system and support equipment maintenance.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory.
Control systems, air-launched guided missiles, electronic circuitry, fire control systems, all-weather radar and control system, missile systems introduction, and maintenance administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (7/74).

NV-1715-0744

AVIATION ORDINANCE OFFICERS, CLASS O

Course Number: Not available.

Location: Air Technical Training Center, Jacksonville, FL.

Length: 10 weeks (400 hours).

Exhibit Dates: 1/53-12/68.

Objectives: To train officers to be aviation ordinance officers.

Instruction: Lectures and practical exercises in electricity and electronics, aviation fire control systems, aircraft munitions, turrets, machine guns, and torpedoes.

Credit Recommendation: In the lower-division, baccalaureate/associate degree category, 2 semester hours in electronics and electronics (7/74).

NV-1715-0745

AN/SPS-40B/C/D RADAR SET MAINTENANCE (ELECTRONICS TECHNICIAN, CLASS C1)

Course Number: A-104-0164.

Location: Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

Length: 4 weeks (120 hours).

Exhibit Dates: 7/7/6-Present.

Objectives: To provide the skills and knowledge to maintain the AN/SPS-40B/C/D radar set.

Instruction: Course teaches maintenance of the AN/SPS-40B/C/D radar set, power control and distribution, air system, cooling system, antenna system, timing and trigger generation, frequency generation, low- and high-power transmitters, receiver group, system testing, and function.

Credit Recommendation: In the vocational certificate category, 1 semester hour in communication system, 1 in electronics laboratory (11/77).

NV-1715-0746

E-2A AN/ASQ-59 INTEGRATED ELECTRONIC CENTRAL, UHF-RT-542/A&S and RT-559/A&S POWER SUPPLY-AM-2310/A&S INTERMEDIATE MAINTENANCE

Course Number: C-102-3473.

Location: Air Maintenance Training Detachment, North Island, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 6/68-Present.

Objectives: To train maintenance personnel to maintain UHF equipment and power supplies.

Instruction: Lectures and practical exercises in the maintenance of UHF equipment and power supplies, including transceivers, block diagrams, circuit analysis, theory of operation, power distribution, and automatic equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (3/74), in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics (3/74).

NV-1715-0747

SH-3A/D AN/AQS-13/15 Sonar INTERMEDIATE MAINTENANCE

Course Number: C-130-3396.

Location: Maintenance Training Detachment, Oxnard Point, Rt Air Maintenance Training Detachment, Imperial Beach, CA.

Length: 6 weeks (240 hours).

Exhibit Dates: 11/72-12/74.

Objectives: To train air maintenance personnel in the maintenance of the AN/AQS-13/15 sonar system.

Instruction: Lectures and practical exercises in the maintenance of specific sonar equipment, including introduction, associated test equipment, transmit and receive circuitry, display, video display, machine and associated circuit analysis, low-power transmitters, test equipment, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical laboratory (7/74); in the lower-division, baccalaureate/associate degree category, 1 semester hour in electrical laboratory, basic examination (2/74).

NV-1715-0748

RA-5C PHOTO RECOGNITION SYSTEM ORGANIZATIONAL MAINTENANCE

(RA-5C PHOTO RECOGNITION LINE MAINTENANCE)

Course Number: C-100-3748.

Location: Maintenance Training Detachment, Albany, GA; Maintenance Training Detachment, Sanford, FL.

Length: 4 weeks (152-160 hours).

Exhibit Dates: 9/67-1/68.

Objectives: To train enlisted personnel to maintain and repair the RA-5C photographic reconnaissance system.

Instruction: Lectures and practical exercises in the maintenance and repair of the RA-5C photographic reconnaissance system. Course includes knowledge of camera-system parts, function and control; familiarity of appropriate cameras designed to work with the system; and malfunction detection.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1715-0749

AN/SPS-29E RADAR SET MAINTENANCE (ELECTRONICS TECHNICIAN, CLASS C1)

Course Number: A-104-0151.

Location: Service School Command, San Diego, CA.

Length: 9 weeks (272 hours).

Exhibit Dates: 9/75-1/76.

Objectives: To train personnel to operate, troubleshoot, repair, and maintain the AN/SPS-29E radar set.

Instruction: Lectures and practical exercises in the operation, troubleshooting, repair, and maintenance of the AN/SPS-29E radar set and associated equipment; radar and control system, including introduction, associated test equipment, transmit and receive system, test equipment, and troubleshooting.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electrical laboratory (7/74); in the lower-division, baccalaureate/associate degree category, 1 semester hour in electrical laboratory, basic examination (2/74).

NV-1715-0750

RF-4B CAMERA CONTROL SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-198-3833.

Location: Air Maintenance Training Detachment, El Toro, CA.

Length: 4 weeks (160 hours).

Exhibit Dates: 11/72-12/74.

Objectives: To train maintenance personnel to maintain the ES-55A correlator-programmer set maintenance, including side-looking radar (SLR) fundamentals, optical and electrical system functions, maintenance procedures, and troubleshooting and calibration procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1715-0751

RF-4B PHOTOGRAPHIC FILM CORRELATOR-PROCESSOR SET ES-55A INTERMEDIATE MAINTENANCE

Course Number: C-198-3832.

Location: Air Maintenance Training Detachment, El Toro, CA.

Length: 7 weeks (280 hours).

Exhibit Dates: 3/68-4/70.

Objectives: To train experienced maintenance personnel to operate, troubleshoot, repair, and maintain the RF-4B camera control system at the intermediate level.

Instruction: Lectures and practical exercises in the operation, troubleshooting, repair, and maintenance of the RF-4B camera control system, including basic electronics review, camera control panels, photographic system power, optical viewfinder, aircraft parameter control, still-picture camera equipment, low- and high-altitude panoramic camera components, aircraft camera mount set, test equipment, and troubleshooting procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (3/74).
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**COURSE EXHIBITS**

**NV-1715-0753**

1. DATA SYSTEMS TECHNICIAN, CLASS A, PHASE A-1
2. DATA SYSTEMS TECHNICIAN, CLASS A DSA-11

**Course Number:** A-150-0025
**Location:** Naval School, Mare Island, CA; Naval School, Great Lakes, IL.

**Length:**
**Version 1:** 18 weeks (720 hours). 
**Version 2:** 28 weeks (1140 hours).

**Exhibit Dates:**
**Version 1:** 1/70-Present.
**Version 2:** 6/62-12/69.

**Objectives:** To train enlisted personnel to maintain data processing equipment.

**Instruction:**
**Version 1:** Lectures and practical exercises in vacuum tube and transistor circuits, Boolean algebra, logic circuit reduction, number systems, counters and registers, input/output devices, storage devices, and computer programming using the CP-788/GYK. The program taught in this course is not directly applicable to commercial machines. (See NV-1715-0043, NV-1715-0044 and NV-1715-0045 for Phase A-2, Part I and Part II) **Version 2:** Part 1 of this course consists of lectures over a six-week period of the Electronics Technician, Class A program (NV-1715-0730 or NV-1715-0731). Part 2 includes data processing system functioning, logic and computer mathematics, digital computer programming, symbolic logic and Boolean algebra concepts, input/output devices, digital control concepts, operation and application of dual-trace oscilloscope to digital computer maintenance, printed circuit board repair, and analog-to-digital conversion.

**Credit Recommendation:**
**Version 1:** In the vocational certificate category, 12 semester hours in computers (3/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in computers (3/74). **Version 2:** In the vocational certificate category, 28 semester hours in electronics and electronics, 2 in digital computer programming, and 4 in digital computer repair and digital laboratory (7/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in physics (electricity), 12 in engineering electronics (12/68), 1 in digital computer programming, and 2 in digital computer repair (7/74); in the upper-division baccalaureate category, 6 semester hours in electronics and electronics, 3 as a technical elective in electronics, 1 in introduction to digital computers, and 1 in digital computer laboratory (7/74).

**Objectives:** To provide the basic theory necessary in the training of electronics technicians.

**Instruction:**
**Version 1:** Lectures in basic mathematics, trigonometry, logarithms, complex numbers, Boolean algebra, as they pertain to electronics theory. Technical topics include AC/DC theory, transistors, solid state devices, coupled circuits, synchrons, servos, navigation and radar systems, and training in supervision and management. **Version 2:** Topics include direct current fundamentals for electronics, analysis of transient-responses, vacuum tubes, solid-state devices, coupled circuits, multivibrators, time-base generation, communications systems, computers, communications, test equipment, communications system testing, continuous- and pulsed-wave radar systems, radar special and servos systems, radar theory, and supervision and management. **Version 3:** Topics include review mathematics, circuits, basic algebra, matrix algebra, mathematics, applied mathematics, semiconductors, capacitance, inductance, circuit analysis, transient analysis, resonance, coupled circuits, vacuum tubes, power supplies, limiters, transistors, power amplifiers, oscillators and frequency generation, communications and test procedures, propagation, antennas, microwave devices, and computer logic circuits. **Version 4:** Topics include applied mathematics, electronics, electronic fundamentals and advanced fundamentals: calculus, indeterminate, capacity, resonance, transient analysis, vacuum and gas tubes, semiconductors, devices, coupled circuits, graphical and small signal analysis, circuit applications, power supplies, multivibrators, voltage and current time-base generators, oscillators, communication systems, communication theory, wave-guides, transmission lines, propagation, radar systems and basic computers, klystrons and magnetrons, synchro and servos systems, radio transmitters and receivers, Boolean algebra, navigational and identification system, digital and analag computers, electronic countermeasures, and electronic administration.

**Credit Recommendation:**
**Version 1:** In the lower-division baccalaureate/associate degree category, 20 semester hours in electronics technology, 5 in electronics, 4 in engineering electronics (12/68), and 3 in electronics (12/68). **Version 2:** In the lower-division baccalaureate/associate degree category, 3 semester hours in mathematics, 5 in electronics (7/74). **Version 3:** In the vocational certificate category, 12 semester hours in mathematics and 20 in electronics (7/74). **Version 4:** In the upper-division baccalaureate/associate degree category, 3 semester hours in mathematics, 5 in electronics (7/74). **Version 5:** In the upper-division baccalaureate category, 3 semester hours in mathematics, 5 in electronics (7/74).

**NV-1715-0755**

1. INTERIOR COMMUNICATIONS ELECTRICIAN, CLASS C7
2. INTERIOR COMMUNICATIONS ELECTRICIAN, CLASS B (IC ELECTRICIAN, CLASS B)
3. INTERIOR COMMUNICATIONS ELECTRICIAN, CLASS A
4. INTERIOR COMMUNICATIONS ELECTRICIAN, CLASS B

**Course Number:** A-623-0013
**Location:** Naval Training Center, Great Lakes, IL.

**Length:**
**Version 1:** 6/62-12/69.
**Version 2:** 4/67-6/69.

**Objectives:**
1. To train students in the basic electrical and electronic skills necessary to maintain, troubleshoot, repair, align, and calibrate the electrical equipment found aboard a ship.

**Instruction:**
**Version 1:** Lectures and practical exercises in AC and DC circuits, semiconductors, digital logic and logic circuits, static control devices, synchros and mechanical devices, and repair, calibration, troubleshooting, and alignment of electronic and mechanical systems used in the operation of a ship. **Version 2:** Lectures and practical exercises in the repair, calibration, troubleshooting, and alignment of numerous electrical and electronic systems used in the operation of a ship. **Version 3:** Covers review of algebra, AC and DC circuits, series and parallel circuits, principles of magnetism; use of basic meters and the oscilloscope; RL, RC, and RLC circuits; transformer theory, electron tubes and semiconductors; operating characteristics of tube-type power supplies, audio, push-pull, and feedback amplifiers and cathode followers, solid-state power supplies, amplifiers, regulators, pulse-shaping circuits, and oscillators; basic logic operations, diode gate and DCTL circuit equivalents; inverters, clocks, half and full adders, and memory devices. **Version 4:** Topics in version 2, with considerable effort devoted to shipboard electrical and electronic systems, include motors, sound systems, synchros, magnetic memory systems, communication systems, and power switchgear. There is much less emphasis on transistor circuits and digital logic.

**Credit Recommendation:**
**Version 1:** In the vocational certificate category, 2 semester hours in computer technology, 7 in electricity and electronics, and 7 in electrical and electronics laboratory (9/77); in the lower-division baccalaureate/associate degree category, 2 semester hours in computer technology, 3 in electricity and electronics and 1 in electronics laboratory (9/77). **Version 2:** In the vocational certificate category, 8 semester hours in electronics laboratory (7/74); in the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional examination (7/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional examination (7/74). **Version 3:** In the vocational certificate category, 8 semester hours in electricity and electronics (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics on the basis of institutional ex-
amination (7/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional examination (7/74). Version 4: In the vocational certificate category, 6 semester hours in electricity and electronics (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional examination (7/74).

NV-1715-0756
AN/SPS-29C RADAR SET MAINTENANCE
(ELECTRONICS TECHNICIAN, CLASS C1)
Course Number: A-104-0150.
Location: Service School Command, San Diego, CA.
Length: 9 weeks (272 hours).
Exhibit Dates: 3/75-8/75.
Objectives: To train selected personnel to maintain a radar system in a high degree of readiness.

Instruction: Course concentrates on familiarization and operation of a radar set and on the functional analysis and maintenance of that set. Includes AC/DC power distribution, cooling modulation, transmitting/receiving, ranging, tuning, and countermeasures.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronics (11/77).

NV-1715-0757
E-2B WEAPON SYSTEM SPECIALIST
ORGANIZATIONAL MAINTENANCE
Course Number: C-150-3482.
Location: Air Maintenance Training Detachment, North Island, CA.
Length: 9–12 weeks (389 hours).
Exhibit Dates: 3/76-present.
Objectives: To train technicians to isolate, maintain, and repair the E-2B weapon system.

Instruction: Lectures and practical exercises in the isolation, maintenance, and repair of the E-2B weapon system. Course includes general avionics, IFPM, ATDS communications and navigation, ATDS detection, and control systems.

Credit Recommendation: In the vocational certificate category, 4 semester hours as an elective in instrument repair (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in instrument repair (8/74).

NV-1715-0758
SURFACE MISSILE SYSTEMS, OFFICER
Course Number: Not available.
Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.
Length: 11 weeks (330 hours).
Exhibit Dates: 2/68-present.
Objectives: To train enlisted personnel to operate fire control, missile battery, and surface missile systems.

Instruction: Lectures and practical exercises in the operation of surface missile weapon systems. Course includes equipment engineering, systems engineering, and weapon system management.

Credit Recommendation: Insufficient data for evaluation (8/74).

NV-1715-0759
DISTURBED LINE OF SIGHT GUNFIRE CONTROL SYSTEM MAINTENANCE
Course Number: J-113-1062.
Location: Fleet Anti-Air Warfare Training Center, Dam Neck, VA.
Length: 3 weeks (105 hours).
Exhibit Dates: 10/72-present.
Objectives: To train enlisted personnel to maintain and adjust disturbed-line-of-sight gunfire control systems.

Instruction: Lectures and practical exercises in disturbed-line-of-sight gunfire control systems maintenance and adjustment, including use of schematic prints and diagrams, concept and application of planned maintenance system, system data flow, power distribution, lead-computing gun-sights, antenna-positioning system, gun order computations, and radar functional description, testing, adjustment, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 4 semester hours as an elective in electricity or electronics (8/74); in the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in electricity or electronics (8/74).

NV-1715-0760
MK 113 MOD 7 FIRE CONTROL SYSTEM MAINTENANCE
(UNDERWATER FIRE CONTROL SYSTEM TECHNICIAN (TORPEDOES) MK 113 MOD 7)
Course Number: A-113-0045; A-113-0017; A-113-0038.
Location: Guided Missiles School, Dam Neck, VA.
Length: 17–19 weeks (541–595 hours).
Exhibit Dates: 10/70-present.
Objectives: To train enlisted personnel to operate and maintain underwater fire control systems.

Instruction: Lectures and practical exercises in the operation and maintenance of underwater fire control systems, including analog computations, digital equipment, and system casualty analysis.

Credit Recommendation: In the vocational certificate category, 2 semester hours in basic electronics, 3 as an elective in computer science (8/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics, 3 as an elective in computer science (8/74).

NV-1715-0761
UH-2A/B TACTICAL AIR NAVIGATION (TACAN) AN/ARN-52(V)
Course Number: Not available.
Location: Air Maintenance Training Detachment, Ream Field, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 2/66–12/68.
Objectives: To train maintenance personnel to maintain and troubleshoot the AN/ARN-52 tactical air navigation (TACAN) trainer.

Instruction: Lectures and practical exercises in the operation, maintenance, and servicing of the AN/ARN-52 TACAN trainer, including circuitry procedures, power distribution and supply, block-diagram analysis, channel-servo operation, video decoder, and range circuits theory.

Credit Recommendation: In the vocational certificate category, 3 semester hours as an elective in electricity or electronics (8/74); in the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electricity or electronics (8/74).

NV-1715-0762
MK 27 GYROCOMPASS MAINTENANCE, CLASS C
Course Number: A-670-0026.
Location: Development and Training Center, San Diego, CA.
Length: 2 weeks (60 hours).
Exhibit Dates: 3/74-present.
Objectives: To train personnel with previous electrical training to maintain the MK 27 gyrocompass.

Instruction: Lectures and practical exercises in the principles, maintenance, and repair of the MK 27 gyrocompass and instruction on the use of required test and monitoring equipment.

Credit Recommendation: In the vocational certificate category, 1 semester hour in small equipment repair (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic instrumentation (6/75).

NV-1715-0763
LAUNCHER TECHNICIAN
Course Number: A-633-0016.
Location: Guided Missiles School, Dam Neck, VA.
Length: 11 weeks (384 hours).
Exhibit Dates: 2/71-present.
Objectives: To provide training in all weapon systems in use aboard Fleet Ballistic Missile (FBM) submarines.

Instruction: Classroom and laboratory instruction in submarine subsystems, including hydraulics, pneumatics, electric power generation, and engineering power plant; navigational subsystems; fire control; weapon systems; missile systems; missile guidance and flight control; mechanical and electrical launcher subsystems; and electrical, power, and hydraulic test and calibration equipment.

Credit Recommendation: In the vocational certificate category, 4 semester hours in hydraulic, pneumatic, or electrical systems (6/75); in the upper-division baccalaureate/associate degree category, 4 semester hours in hydraulic, pneumatic, or electrical systems (6/75).

NV-1715-0764
DLG 6-16 COMBAT SYSTEM
Course Number: A-121-0189.
Location: Guided Missiles School, Dam Neck, VA.
Length: 10 weeks (330 hours).
Exhibit Dates: 10/72-present.
Objectives: To provide instruction for maintenance supervisors in the integration of the DLG 6-16 Combat System.

Instruction: Lectures and practical exercises in the operation and interface of the
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various subsystems of the DLG 6-16 Combat System.

Credit Recommendation: No credit because of the military nature of the course (6/75).

NY-1715-0765

RF-4B SHOE Horn ORGANIZATIONAL MAINTENANCE

Course Number: C-102-3831; C-102-0242.

Location: Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cherry Point, NC. 

Length: 4 weeks (160 hours).

Objectives: To train fleet maintenance personnel to maintain the Shoe Horn aircraft radar system.

Instruction: Lectures and practical exercises in the Shoe Horn aircraft radar system, including radar review, logic symbology, corrosion control, introduction to planned maintenance, and decibels; and purpose, components, operational block diagrams, and maintenance and test equipment of the radar homing and warning system, the radar receiver; the countermeasures set, the countermeasures receiver and transmitter, the tagging and blanking unit, and the countermeasures chief dispenser set.

Credit Recommendation: In the vocational certificate category, credit in electronics on the basis of institutional examination (3/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics (6/75); in the upper-division baccalaureate degree category, 15 semester hours in electronics (3/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/75).

NY-1715-0766

ELECTRONICS OFFICERS (MAINTENANCE)

Course Number: Not available.

Location: Electronics Officers School, Great Lakes, IL.


Objectives: To provide officers who have electronics backgrounds with advanced training in electronics and management skills.

Instruction: All Versions: Lectures and practical exercises in mathematics, including algebra and trigonometry, basic electricity and electronics, including circuit analysis, motors, generators, power supplies, vacuum tubes, amplifiers, and oscillators, analog and digital techniques, and test equipment operation. Version 1: Instruction includes calculus, physics, digital numbers, and Boolean algebra, and semiconductors. Version 2: Instruction emphasizes special equipment operation.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 24 semester hours in electricity or electronics, 9 in mathematics, 8 in physics (3/74); in the upper-division baccalaureate/associate degree category, 5 semester hours in mathematics, 3 in physics, 10 in engineering electronics (12/68).

NY-1715-0767

LAMPS SENSOR OPERATOR (LIGHT AIRBORNE MULTI-PURPOSE SYSTEM SENSOR OPERATOR)

Course Number: D-210-0020.

Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.

Length: 5 weeks (182 hours).

Exhibit Dates: 4/68-Present.

Objectives: To train antisubmarine airborne crewmembers in the operation of electronic sensor equipment.

Instruction: Lectures and laboratory exercises in the operation of electronic sensor equipment, characteristics of underwater sound signals, analysis of target signals, radar fundamentals and operation, and active and passive detection.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (6/75), in the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/75).

NY-1715-0768

TACTICAL ELECTRONIC WARFARE

Course Number: D-00-0032.

Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.

Length: 5 weeks (200 hours).

Exhibit Dates: 4/68-Present.

Objectives: To train pilots and flight officers in the concepts, planning, and techniques of electronic warfare.

Instruction: Classroom and practical training in active and passive electronic warfare tactics and techniques and operation of various electronic warfare systems and equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics (6/75).

NY-1715-0769

E-2B DETECTION SYSTEM ORGANIZATIONAL MAINTENANCE

Course Number: C-104-3471.

Location: Air Maintenance Training Detachment, North Island, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 10/73-Present.

Objectives: To provide technicians to operate and maintain the E-2B detection system.

Instruction: Instruction in radar principles, data acquisition, encoding, troubleshooting, and test instrument usage.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics laboratory (6/75).

NY-1715-0770

ASROC LAUNCHING GROUP Mk 16

Course Number: A-121-0010.

Location: Gunner's Mate Class C, Great Lakes, IL.

Length: 10 weeks (450 hours).

NY-1715-0771

AIR TRAFFIC CONTROL CENTER EQUIPMENT MAINTENANCE AN/TRN-28, CLASS C

Course Number: C-103-2027.

Location: Air Technical Training Center, Glynco, GA.

Length: 6 weeks (200 hours).

Exhibit Dates: 4/73-Present.

Objectives: To train technicians to maintain electronic air traffic control equipment.

Instruction: Lectures and practical exercises in block diagram analysis, troubleshooting techniques, electronic circuitry, encoding, transmission and system alignment, and drive development.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronic systems repair (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronic laboratory (6/75).

NY-1715-0772

AN/SQA-13 (V) INDEPENDENT VARIABLE DEPTH SONAR OPERATE AND MAINTENANCE


Location: Fleet Training Center, San Diego, CA.

Length: Version 1: 2 weeks (60 hours). Version 2: 3 weeks (90 hours).


Objectives: To train personnel to operate, maintain, and repair a variable depth sonar hoist mechanism.

Instruction: Lectures and practical exercises in basic hydraulics, basic electricity, and specialized subassemblies related to a military sonar hoist mechanism.

Credit Recommendation: Version 1: No credit because of the limited technical nature of the course (6/75). Version 2: In the vocational certificate category, 1 semester hour in basic electrical laboratory (6/75).

NY-1715-0773

AN/ARC-52 RADIO SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3019.

Location: Air Maintenance Training Detachment, Meridian, MS; Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Seattle, WA; Air Maintenance Training Detachment, Fort Eustis, VA; Air Maintenance Training Detachment, Orlando, FL; Air Maintenance Training Detachment, Lackland AFB, TX; Air Maintenance Training Detachment, Nashville, TN; Air Maintenance Training Detachment, Great Lakes, IL; Air Maintenance Training Detachment, San Diego, CA; Air Maintenance Training Detachment, Pensacola, FL; Air Maintenance Training Detachment, Corpus Christi, TX; Air Maintenance Training Detachment, Columbus, GA; Air Maintenance Training Detachment, Oklahoma City, OK.
Detachment, Moffett Field, CA; Air Maintenance Training Detachment, New River, NC; Air Maintenance Training Detachment, Santa Ana, CA; Air Maintenance Training Detachment, Quonset Point, RI; Air Maintenance Training Detachment, Imperial Beach, CA; Air Maintenance Training Detachment, Norfolk, VA; Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Key West, FL.

Length: 2 weeks (80 hours).

Exhibit Dates: 12/70-Present.

Objectives: To provide maintenance personnel with the technical knowledge necessary to maintain a specific military radio set.

Instruction: Lectures and practical exercises in the operation of the AN/ARC-52 radio receiver and transmitter with instruction in diagnosis, troubleshooting, maintenance, and repair of specific subsections of the equipment.

Credit Recommendation: In the vocational certification category, 2 semester hours in basic communications laboratory (6/75).

- NV-1715-0774

AN/ALR-54 COUNTERMEASURES RECEIVING SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3075.

Location: Air Maintenance Training Detachment, Patuxent River, MD; Air Maintenance Training Detachment, Moffett Field, CA; Air Maintenance Training Detachment, Cecil Field, FL.

Length: 11 weeks (440 hours).

Exhibit Dates: 2/74-Present.

Objectives: To train personnel in the maintenance procedures for a sonar computer-recorder and the specialized test equipment.

Instruction: Lectures and practical exercises in the theory, operation, and maintenance of a sonar computer-recorder, including demultiplexer, frequency, multiplier a storer, spectrum analyzer-quantizer, and digital memory units to include fault localization, fault isolation, component replacement, assembly, interchange, reassembly, alignment/adjustment, and safety precautions and checkout procedures.

Credit Recommendation: In the vocational certification category, 3 semester hours in communications electives, 1 in communications laboratory (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in communications laboratory (6/75).

NV-1715-0775

AN/ALR-54 COUNTERMEASURES RECEIVING SET INTERMEDIATE MAINTENANCE

Course Number: C-102-3389.

Location: Combat Systems Technical School Command, Mare Island, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 1/72-Present.

Objectives: To provide instruction in the maintenance of electronic countermeasures receiving equipment.

Instruction: Instruction covers theory and practical applications of specific circuits, RF detection, video display, power supplies, logic boards, and filters, and practical exercises in circuit analysis, troubleshooting, and repair.

Credit Recommendation: In the vocational certification category, 2 semester hours in electronics laboratory (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (6/75); in the upper-division baccalaureate category, credit in electronic laboratory (6/75).

NV-1715-0776

E-2B ELECTRONIC SYSTEMS ORGANIZATION AND MAINTENANCE

Course Number: C-102-3479.

Location: Air Maintenance Training Detachment, North Island, CA.

Length: 3 weeks (120 hours).

Exhibit Dates: 11/73-Present.

Objectives: To provide maintenance technicians with overall knowledge of a specialized electronic system.

Instruction: Lectures and practical exercises to include block diagram and functional description of communications/navigations system, detection system and data links; system interface; basic operation and troubleshooting; removal and replacement of WEAPABLE Assemblies (WRAs); installation procedures; and test equipment.

Credit Recommendation: In the vocational certification category, 2 semester hours in electronics laboratory (6/75).

NV-1715-0777

E-2B AIRBORNE TACTICAL DATA SYSTEMS (ATDS) OPERATOR/TRAINEE

Course Number: D-102-0001.

Location: Carrier Airborne Early Warning Training Squadron 120, Norfolk, VA.

Length: 15 weeks (523 hours).

Exhibit Dates: 1/70-Present.

Objectives: To provide personnel with basic skills to operate, maintain, and troubleshoot the missionized aircraft tactical data system of the E-2B aircraft.

Instruction: Lectures and practical exercises in the principles of amplitude modulation and troubleshooting procedures for detection; computer, communication, and navigation subsystems; and the aircraft communication and navigation system, with emphasis on test equipment, fault isolation, and basic deployment.

Credit Recommendation: In the vocational certification category, 6 semester hours in electrical laboratory (6/75).

NV-1715-0778

BASIC POINT DEFENSE SURFACE MISSILE SYSTEM

Course Number: A-121-0122.

Location: Combat Systems Technical School Command, Mare Island, CA.

Length: 20 weeks (803 hours).

Exhibit Dates: 9/71-Present.

Objectives: To train personnel in the operation, maintenance, troubleshooting, and repair of specialized military equipment.

Instruction: Lectures and practical exercises in the principles of amplitude modulation and detection, analysis of specialized electronic systems, and maintenance and trouble isolation procedures.

Credit Recommendation: In the vocational certification category, 7 semester hours in electrical test and maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical test and maintenance (6/75).

NV-1715-0779

1. ELECTRONIC WARFARE FUNDAMENTALS AND PREVENTIVE MAINTENANCE TECHNOLOGY

(ELECTRONIC WARFARE FUNDAMENTALS/TECHNOLOGY, CLASS A (1), FUNDAMENTALS/BASIC OPERATOR)

2. ELECTRONIC WARFARE FUNDAMENTALS AND PREVENTIVE MAINTENANCE TECHNOLOGY

3. ELECTRONIC WARFARE TECHNICIAN, CLASS A (A-1), FUNDAMENTALS/BASIC OPERATOR


Objectives: To provide technicians with the fundamentals of transistor/vacuum tube electronics necessary to maintain and repair electronic warfare systems.

Instruction: All Versions: Classroom and laboratory instruction in electronic circuit theory including linear and nonlinear circuits, motors, antennas, power supplies, receiver principles, pulse and video display circuits, deception repeaters, transmission systems, electromagnetic devices, and electronic systems maintenance. Version 1: Includes instruction in digital techniques.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in semiconductor devices, 3 in communications circuits, and 3 in UHF systems (1/77); in the lower-division baccalaureate/associate degree category, credit in semiconductor devices and basic digital systems on the basis of institutional evaluation (1/77). Version 2: In the vocational certificate category, 3 semester hours in semiconductor devices, 3 in UHF systems, and 3 in communications circuits (1/77); in the lower-division baccalaureate/associate degree category, credit in semiconductor devices and basic digital systems on the basis of institutional evaluation (1/77). Version 3: In the vocational certificate category, 3 semester hours in fundamentals of electronic circuit theory (6/75); in the lower-division baccalaureate/associate degree category, 6 semester hours in fundamentals of electronic circuit theory (6/75); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory (6/75).
NY-1715-0780

1. ELECTRONIC WARFARE ELECTRONIC
   SUPPORT MEASURES SYSTEM
   MAINTENANCE, CLASS A
2. ELECTRONIC WARFARE TECHNICIAN,
   CLASS A (A-2), ELECTRONIC
   SUPPORT MEASURES SYSTEM
   MAINTENANCE

Course Number: Version 1: A-102-0221.
   All Versions: A-102-0094.
Location: Version 1: Naval Technical
   Training Center, Corry Station, Pensacola,
   FL. Version 2: Schools Command, Treasure
   Island, CA.
Length: Version 1: 7-12 weeks (280-480
   hours). Version 2: 12-14 weeks (360-420
   hours).
Exhibit Dates: Version 1: 1/77-Present.
   Version 2: 3/72-12/76.

Objectives: To provide electronics
   technicians with instruction in the operation,
   maintenance, and repair of electronic countermeasures systems.

Instruction: Classroom and laboratory
   instruction in the operation of specialized test equipment
   and the operation and maintenance of complex circuitry.

Credit Recommendation: Version 1: In the vocational
   certificate category, 6 semester hours in electronic
   maintenance (1/77). All Versions: In the vocational
   certificate category, 4 semester hours in maintenance
   and repair of electronic systems (6/75), in the lower-
   division baccalaureate/associate degree category, 2 semester hours
   in electronics laboratory (6/75).

NY-1715-0781

ELECTRONIC WARFARE TECHNICIAN, CLASS
   A (A-3), DECEPTION REPLACER
   SYSTEMS MAINTENANCE
   (ELECTRONIC WARFARE TECHNICIAN,
   CLASS A (A-3), ELECTRONIC
   COUNTERMEASURES SYSTEMS
   MAINTENANCE)

Course Number: A-102-0095.
Location: Schools Command, Treasure
   Island, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 3/72-Present.

Objectives: To train technicians in the operation
   and repair of electronic countermeasures systems.

Instruction: Classroom and laboratory
   instruction in the operation and repair of electronic
   countermeasures systems.

Credit Recommendation: In the vocational
   certificate category, 4 semester hours
   in electronic maintenance (1/77).

NY-1715-0782

ELECTRONIC WARFARE TECHNICIAN, CLASS
   A (A-4), TACTICAL OPERATIONS

Course Number: A-102-0096.
Location: Schools Command, Treasure
   Island, CA.
Length: 10 weeks (350 hours).
Exhibit Dates: 3/72-Present.

Objectives: To train technicians in the
   principles of electronic warfare systems.

Instruction: Classroom and laboratory
   instruction in electronic warfare analysis and
   specific hardware systems.

Credit Recommendation: In the vocational
   certificate category, 2 semester hours
   in electronic systems repair laboratory
   techniques (6/75); in the lower-
   division baccalaureate/associate degree category, 1
   semester hour in electronic systems repair
   laboratory techniques (6/75).

NY-1715-0783

SONAR AN/SQS-39 THROUGH 46 AND
   ASPECT MAINTENANCE

Course Number: A-130-0043.
Location: Fleet Sonar School, Key West,
   FL.
Length: 10 weeks (330 hours).
Exhibit Dates: 6/69-Present.

Objectives: To train personnel to service
   and maintain a specific military sonar system.

Instruction: Lectures and practical exercises
   in the operation of a specific sonar system to include troubleshooting, calibrating,
   DC power supply circuits, AC power distribution, time base generators, and
   other related sonar circuitry.

Credit Recommendation: In the vocational
   certificate category, 3 semester hours
   in basic electronics (6/75).

NY-1715-0784

TORPEDOMAN'S MATE, CLASS A, SUBMARINE
   AND SURFACE PREREQUISITE

Course Number: A-123-0148.
Location: Naval Training Center, Orland,
   FL.
Length: 2 weeks (67 hours).
Exhibit Dates: 6/70-Present.

Objectives: To provide personnel with
   basic skill-level training in hand tools and
   electrical measurement devices prerequisite
   to entry in the Torpedoman's Mate, Class A
   program.

Instruction: Classroom and practical
   instruction in common hand tools, basic electricity,
   VOM's, megohmmeters, and soldering
   techniques.

Credit Recommendation: In the vocational
   certificate category, 1 semester hour
   in basic test equipment (6/75).

NY-1715-0785

TORPEDOMAN'S MATE, CLASS A, SUBMARINE
   AND SURFACE EQUIPMENT INTERMEDIATE
   MAINTENANCE

Course Number: A-123-0145.
Location: Service Schools Command, Orland,
   FL.
Length: 2 weeks (60 hours).
Exhibit Dates: 1/70-Present.

Objectives: To provide personnel with
   knowledge of introductory operational and
   maintenance procedures for torpedoes.

Instruction: Instruction includes physical
   and operational characteristics of the torpe-
   do; pre-loading and unloading procedures; patrol maintenance, emergen-
   cy, and post-fire procedures; and film anal-
   ysis.

Credit Recommendation: No credit
   because of the military nature of the course
   (6/75).

NY-1715-0786

TORPEDOMAN'S MATE, CLASS A, SUBMARINE
   AND SURFACE INTERMEDIATE MAINTENANCE

Course Number: A-123-0134.
Location: Service Schools Command, Orland,
   FL.
Length: 7 weeks (200 hours).
Exhibit Dates: 1/70-Present.

Objectives: To train personnel in test
   procedures for torpedo test equipment.

Instruction: Instruction and practical
   training in the use and maintenance of tor-
   pedo test equipment.

Credit Recommendation: No credit
   because of the military nature of the course
   (6/75).

NY-1715-0789

TORPEDOMAN'S MATE, CLASS A, SUBMARINE
   AND SURFACE INTERMEDIATE MAINTENANCE

Course Number: A-123-0133.
Location: Service Schools Command, Orland,
   FL.
Length: 14 weeks (424 hours).
Exhibit Dates: 1/70-Present.

Objectives: To train personnel in the
   maintenance of torpedo control systems.

Instruction: Instruction and practical
   training in the maintenance of electrical
   control systems for torpedoes, including troubleshooting procedures and functions
   of basic control system components.

Credit Recommendation: No credit
   because of the limited technical nature of the course
   (6/75).
NV-1715-0790
AN/SPS-43A/37A RADAR SET
MAINTENANCE (ELECTRONICS
TECHNICIAN, CLASS C1)
(AN/SPA-37/37A RADAR SETS, AN/SPA-
63 COUNTERMEASURES RECEIVING
GROUP, AND AN/SPS-43/43A RADAR
SETS DIFFERENCES)
Course Number: A-104-0149.
Location: Service School Command, San
Diego, CA.
Length: 11 weeks (330 hours).
Exhibit Dates: 11/77-Present.
Objectives: To train electronic techni-
cians with the knowledge of radar and
ECM to operate, maintain, and qualify
specified radar sets and the AN/SPA-63
countermeasures receiver.
Instruction: Lectures and practical exer-
cises on the operation, maintenance and
calibration of the AN/SPS-37/37A, AN/
SPS-43/43A radar sets and the AN/SPA-63
ECM receiver. Includes system parameters,
power supplies and distribution, pulse
 generators and exciters, modulators and
power amplifiers, power monitor and vswr
circuits, automatic tuning system, receiver
circuits, test equipment usage, generators,
frequency counters, and oscilloscopes dies.
Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 2 semester hours

NV-1715-0791
TELEMETERING GROUND STATION AN/SKQ-
2
Course Number: A-121-0113.
Location: Guided Missiles School, Mare
Island, CA.
Length: 4 weeks (100 hours).
Exhibit Dates: 1/70-Present.
Objectives: To provide technicians with
practical training in the operation, adjust-
ment, and maintenance of telemetry
systems.
Instruction: Instruction includes elec-
tronics circuits, block diagram analysis,
and troubleshooting techniques.
Credit Recommendation: In the voca-
tional certificate category, 2 semester hours
in electronic equipment laboratory (6/75).

NV-1715-0792
TARTAR MK 152 COMPUTER COMPLEX
Course Number: A-150-0079; A-150-
0080.
Location: Guided Missiles School, Mare
Island, CA; Guided Missiles School, Dam
Neck, VA.
Length: 9 weeks (283 hours).
Exhibit Dates: 6/71-Present.
Objectives: To train personnel in the
maintenance of computer systems, digital
computer interfaces, and signal converters
associated with fire control computers.
Instruction: Instruction and practical ex-
perience in the operation and maintenance
of interface and signal conversion equip-
ment for computer systems.
Credit Recommendation: In the voca-
tional certificate category, 2 semester hours
in computer interface circuits (6/75); in the
lower-division baccalaureate/associate
degree category, 2 semester hours in com-
puter interface circuits (6/75).

NV-1715-0793
TALOS RADAR AN/SPW-2B
Course Number: A-104-0085.
Location: Naval Schools Command,
Mare Island, CA.
Length: 16-18 weeks (534-590 hours).
Exhibit Dates: 3/71-Present.
Objectives: To train personnel in the
operation, maintenance, troubleshooting,
and repair of specialized radar equipment.
Instruction: Practical training in opera-
tional procedures of general purpose test
equipment, including oscilloscopes, power
and frequency meters, and specialized mili-
tary equipment. Topics also included circuit
analysis and maintenance and troubleshooting
procedures.
Credit Recommendation: In the voca-
tional certificate category, 2 semester hours
in electronics maintenance (6/75).

NV-1715-0794
SUBROC MISSILE Mk 28 MOD 1
INTERMEDIATE MAINTENANCE
Course Number: A-121-0144.
Location: Service Schools Command,
Orlando, FL.
Length: 7 weeks (326 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train personnel to test,
assemble, disassemble, and perform inter-
mediate maintenance on the SUBROC
guided missile.
Instruction: Lectures and practical exer-
cises in identification and assembly of parts,
including mechanical handling, install-
lation of fittings, and test monitoring.
Credit Recommendation: No credit
because of the limited technical nature of
the course (6/75).

NV-1715-0795
SUBROC MISSILE Mk 28 MOD 0 TEST
EQUIPMENT INTERMEDIATE
MAINTENANCE
Course Number: A-121-0145.
Location: Service Schools Command,
Orlando, FL.
Length: 20 weeks (632 hours).
Exhibit Dates: 4/66-Present.
Objectives: To train personnel to use the
circuit schematics of the SUBROC missile
and to service test equipment for trouble
analysis.
Instruction: Lectures and practical exer-
cises in checkout and assembly of the
SUBROC missile to cover circuitry and cir-
cuit tracing; test equipment and test equip-
ment calibration; trouble isolation; opera-
tional checks; and electronic fundamentals.
Credit Recommendation: In the voca-
tional certificate category, 10 semester hours
in equipment repair and mainten-
ance, 1 in test equipment laboratory (6/75);
in the lower-division baccalaureate/associ-
ate degree category, 1 semester hour in
test equipment laboratory (6/75).

NV-1715-0796
RT-736 AND KY-531 TACAN (Tactical
Air Navigation) INTERMEDIATE
MAINTENANCE
Course Number: C-102-3098.
Location: Air Maintenance Training
Depotaent, Whidbey Island, WA.
Length: 3 weeks (120 hours).
Exhibit Dates: 2/74-Present.
Objectives: To provide avionics main-
tenance personnel with instruction in the
maintenance of the TACAN system.
Instruction: Lectures and practical exerci-
cises in TACAN theory, pulse decoder,
block diagram analysis, and troubleshooting.
Credit Recommendation: In the voca-
tional certificate category, 2 semester hours
in aircraft electronics (6/75).

NV-1715-0797
RT-541/ASQ RECEIVER/TRANSMITTER AND
KY-309/ASQ PULSE DECODER AND
RT-547/ASQ-19 RECEIVER/
TRANSMITTER AND KY-312/ASQ-19
PULSE DECODER INTERMEDIATE
MAINTENANCE
Course Number: C-102-3094.
Location: Air Maintenance Training
Group, Whidbey Island, WA; Air Main-
tenance Training Group, Oceana, VA; Air
Maintenance Training Group, Miramar,
CA; Air Maintenance Training Group, El
Toro, CA; Air Maintenance Training
Group, Cherry Point, NC; Air Maintenance
Training Group, North Island, CA.
Length: 3 weeks (120 hours).
Exhibit Dates: 11/73-Present.
Objectives: To provide maintenance per-
sonnel with knowledge of theory of operat-
ing, testing, and system troubleshooting
procedures for a military communications
system.
Instruction: Lectures and practical exer-
cises to include maintenance procedures,
pulse decoder circuits, block diagrams, and
an introduction to receiver/transmitter
topics.
Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 1 semester hour in electronics
laboratory (6/75).

NV-1715-0798
OA-3731/ASM-76 COMPUTER DETECTOR
TEST CONSOLE INTERMEDIATE
MAINTENANCE
Course Number: C-150-3486.
Location: Air Maintenance Training
Depotaent, North Island, CA.
Length: 5 weeks (200 hours).
Exhibit Dates: 2/74-Present.
Objectives: To train personnel in the
maintenance of a specific computer detec-
tor test console.
Instruction: Instruction in adapter com-
ponents; signal generators, including power
supplies and timing generators; and testing
theory of military computer detection
systems.
Credit Recommendation: In the voca-
tional certificate category, 1 semester hour
in basic electronics laboratory (6/75).

NV-1715-0799
MARINE AIR TRAFFIC CONTROL
COMMUNICATIONS REPAIRMAN, CLASS
C
Course Number: C-103-2029.
Location: Air Technical Training Center,
Glynco, GA.
Length: 7 weeks (233 hours).
Exhibit Dates: 5/73-Present.
I-250 / COURSE EXHIBITS

Objectives: To train personnel to inspect, test, maintain, and repair a specific military radio transmitter and receiver and associated communications equipment.

Instruction: Lectures and practical exercises in radio receiver and transmitter maintenance and repair, including system troubleshooting, circuit tracing on a block diagram level, and alignment procedures.

Credit Recommendation: No credit because of the limited technical nature of the course (6/75).

NV-1715-0800

1. CRYPTOLOGIC TECHNICIAN O, HIGH FREQUENCY DIRECTION FINDING (HFDF), COMMUNICATIONS TECHNICAL CONTROL, CLASS C1

Objectives: To provide personnel, previously trained in radar, with the basic knowledge and skills required to operate and maintain gun mounts and associated fire control systems.

Instruction: Lectures and practical exercises in basic electricity and electronics, mathematics, mechanics, and equipment troubleshooting.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronics, 2 in electricity, and 1 in mathematics (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and 2 in electricity (6/75); in the upper-division baccalaureate category, 3 semester hours in electronics on the basis of institutional examination (6/75).

NV-1715-0803

TERRIER ASMD-70 55B RADAR UPDATE

Objectives: To train fire control technicians to operate, adjust, and maintain an underwater fire control system.

Instruction: Instruction includes block diagram analysis, troubleshooting techniques, electronic circuitry, and electro-mechanical devices.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronic systems and 2 in electronics laboratory (9/77).

NV-1715-0804

TERRIER WEAPON SYSTEM DBG-28 (CLASS SYSTEM LEVEL MAINTENANCE)

Objectives: To provide instruction in the maintenance and repair of weapon control systems.

Instruction: Lectures and practical exercises in systems components, alignment, maintenance and troubleshooting, including block diagram analysis, signal flow, and repair techniques.

Credit Recommendation: In the vocational certificate category, 4 semester hours in electronic systems maintenance (6/75); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (6/75).

NV-1715-0805

TARTAR WEAPON SYSTEM MISSILE FIRE, CONTROL SYSTEM (MFCS) Mk 74 MODS 6 AND 7

Objectives: To train fire control technicians to supervise the operation and maintenance of a Tartar weapon system.

Instruction: Lectures and laboratories in block diagrams, including maintenance and operations procedures, and testing and alignment of weapon system equipment.

Credit Recommendation: No credit because of the military nature of the course (6/75).

NV-1715-0806

SONAR AN/SQS-26AX RETROFIT MAINTENANCE

Objectives: To train technicians in the operation and repair of a sonar system.

Instruction: Lectures and laboratory instruction in the theory of operation and preventive and corrective maintenance of the sonar set and Los Alis power supply. Topics include linear and nonlinear electrical circuits, block diagram analysis, and troubleshooting techniques.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electronic troubleshooting (8/77).

NV-1715-0807

A-7A/B/E AN/ASW-26/30 AUTOMATIC FLIGHT CONTROL SYSTEM ORGANIZATIONAL MAINTENANCE (A-7 AUTOMATIC FLIGHT CONTROL SYSTEM ORGANIZATIONAL MAINTENANCE)

Objectives: To provide instruction in the maintenance of an automatic flight control system.

Instruction: Lectures and practical exercises on circuit analysis applied to flight control systems, stabilization, and automatic landing assemblies.

Credit Recommendation: In the vocational certificate category, 2 semester hours in advanced avionics/electronics maintenance (6/75).

NV-1715-0808

FIRE CONTROL TECHNICIAN CLASS A, PHASE 2SS

Objectives: To train fire control technicians with the electrical/electronic/mechanical fundamentals related to torpedoes and underwater fire control systems.

Instruction: Lectures and practical exercises in electro-mechanical devices, analog computers, mechanical integrators, and trigonometry function generating devices.

Credit Recommendation: In the vocational certificate category, 8 semester hours in analog computers and electro-mechanical systems (6/75); in the lower-division
baccalaureate/associate degree category, 4 semester hours in analog computers and electro-mechanical systems and 1 in laboratory (6/75); in the upper-division baccalaureatecategory, 1 semester hour in laboratory (6/75).

**NV-1715-0809**

**AN/SPS-40B RADAR SET MAINTENANCE**

**(ELECTRONICS TECHNICIAN, CLASS C1)**

**(AN/SPS-40B/C/D RADAR SET MAINTENANCE)**

**Course Number:** A-104-0133.

**Location:** Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

**Length:** 8 weeks (240 hours).

**Exhibit Dates:** 4/76-Present.

**Objectives:** To provide the skills and knowledge necessary to operate and maintain the AN/SPS-40B/C/D radar set. Practical training in printed circuit board repair, terminal and connector pin soldering, micro-electronic circuit soldering, micro-miniature circuit board repair and parts installation, and micro-electronic connector pin soldering techniques is also included.

**Credit Recommendation:** In the vocational certificate category, 1 semester hour in electronics laboratory (11/77).

**NV-1715-0810**

**AN/SRN-18 RADIO SATELLITE NAVIGATION SET MAINTENANCE, CLASS C-1**

**Course Number:** A-102-0082.

**Location:** Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

**Length:** 5 weeks (150 hours).

**Exhibit Dates:** 10/77-Present.

**Objectives:** To provide the skills and knowledge necessary to maintain the AN/SRN-18 radio navigation set. Skills in troubleshooting and repair of radar test sets, transponder systems, interrogator systems, interference blankers, and decoders are also covered.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in communications systems, 2 in electronics laboratory (11/77).

**NV-1715-0811**

**AN/APX-72 SERIES IFF TRANSPONDER SET MAINTENANCE**

**(ELECTRONICS TECHNICIAN, CLASS C-1)**

**AN/APX-72 MAINTENANCE (AN/APX-72 MAINTENANCE, CLASS C-1)**

**Course Number:** A-102-0063.

**Location:** Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

**Length:** 3 weeks (90 hours).

**Exhibit Dates:** 12/75-Present.

**Objectives:** To provide skills and training necessary to perform preventative and corrective maintenance on an aircraft interrogator system. Topics include operational procedures, troubleshooting, and repair of a transponder system.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in electronics or aircraft electronics (11/77).

**NV-1715-0812**

**AIMS Mk XII IFF SYSTEM MAINTENANCE**

**(ELECTRONICS TECHNICIAN, CLASS C1)**

**Course Number:** A-102-0062.

**Location:** Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

**Length:** 16 weeks (480 hours).

**Exhibit Dates:** 10/75-Present.

**Objectives:** To provide skills and knowledge necessary to perform preventive and corrective maintenance required to maintain the Mk XII aircraft integration system. Topics include operation and maintenance of radar test sets, transponder systems, interrogator systems, interference blankers, and decoders.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in communications systems, 3 in electronics laboratory (11/77).

**NV-1715-0813**

**AIMS Mk XII SYSTEM DIFFERENCES EQUIPMENT MAINTENANCE, CLASS C-1**

**Course Number:** A-102-0064.

**Location:** Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.

**Length:** 4 weeks (120 hours).

**Exhibit Dates:** 11/75-Present.

**Objectives:** To train electronics technicians to operate, repair, maintain and calibrate the accessory equipment AIMS Mk XII (interrogator and decoder unit) associated with an aircraft interrogator unit.

**Credit Recommendation:** In the vocational certificate category, 2 semester hours in electronics laboratory (11/77).

**NV-1715-0814**

**AN/UPN-12 LORAN RECEIVER SET MAINTENANCE (ELECTRONICS TECHNICIAN, CLASS C1)**

**(ELECTRONICS TECHNICIAN, CLASS C, AN/UPN-12 LORAN RECEIVING SET MAINTENANCE, CLASS F-1])**

**Course Number:** A-102-0040.

**Location:** Service School Command, San Diego, CA; Fleet Mine Warfare Training Center, Charleston, SC; Fleet Training Center, Norfolk, VA.

**Length:** 2 weeks (60-80 hours).

**Exhibit Dates:** 8/75-Present.

**Objectives:** To provide the skills and knowledge necessary to operate and maintain the AN/UPN-12(A) Loran receiver set.

**Instruction:** Topics include operation and familiarization; functional block diagram, pulse section, counter section, switch section, delay crank section, master pedestal section, pedestal generator section, sweep section, AFC section, and alignment and fault isolation procedures.

**Credit Recommendation:** In the vocational certificate category, 1 semester hour in communications systems (11/77).

**NV-1715-0815**

**MINIATURE ELECTRONIC REPAIR PROGRAM, CLASS F-1**

**(MINIATURE/MICROMINIATURE ELECTRONIC REPAIR, CLASS F-1)**

**Course Number:** A-100-0034.

**Location:** Fleet Training Center, Norfolk, VA; Service School Command, San Diego, CA.

**Length:** 3 weeks (90 hours).

**Exhibit Dates:** 11/76-Present.

**Objectives:** To provide personnel with the latest methods in disassembly, repair, and soldering of miniature printed circuits, components, terminals, circuit board laminates and conductors.

**Instruction:** Practical training in printed circuit board repair, terminal and connector pin soldering, micro-electronic circuit soldering, micro-miniature circuit board repair and parts installation, and micro-electronic connector pin soldering techniques are included. Also included is replacement of components on microminiature single and double sided printed circuit boards and preventive maintenance procedures for the repair station and associated components.

**Credit Recommendation:** In the vocational certificate category, 3 semester hours in electronics or aircraft electronics (11/77); in the lower-division baccalaureate/associate degree category, 1 semester hour in electronics technology (11/77).

**NV-1715-0816**

**PROSPECTIVE ELECTRONICS MATERIAL INSPECTOR—PACIFIC FLEET, CLASS C2**

**Course Number:** A-4B-0018.

**Location:** Service School Command, San Diego, CA.

**Length:** 4 weeks (120 hours).

**Exhibit Dates:** 9/77-Present.

**Objectives:** To provide the knowledge and skills necessary to administer and supervise the electronics maintenance division on board a Pacific fleet ship.

**Instruction:** Course includes audio-visual training in electronics materials management; communications systems, radar systems, navigation aids, electronic warfare, safety, training programs, and test equipment management.

**Credit Recommendation:** No credit because of the limited specialized nature of the course (10/77).

**NV-1715-0817**

**DD-063 CLASS ELECTRONIC WARFARE SUITE COUNTERMEASURES RECEIVING SET AN/ WLR-1C (IV) CLASS F-1**

**Course Number:** A-102-0203.

**Location:** Naval Technical Training Center, Corry Station, Pensacola, FL.

**Length:** 8-9 weeks (320-360 hours).

**Exhibit Dates:** 12/76-Present.

**Objectives:** Provides electronic warfare team training and technical maintenance in electronic support measures systems for the Spruance class destroyers.
COURSE EXHIBITS

**NV-1715-0818**

**CRYPTOLOGIC TECHNICIAN M, BASIC**
**BULLSEYE MAINTENANCE**

*(BULLSEYE SYSTEM BASIC MAINTENANCE)*

_Course Number:_ A-102-015.
_Location:_ Naval Technical Training Center, Corry Station, Pensacola, FL.
_Length:_ 2 weeks (1120 hours).
_Exhibit Dates:_ 7/77–Present.

**Objectives:** To provide personnel with the cryptographic technician M rating with sufficient experience to perform electronic maintenance on the Bullseye system.

**Instruction:** Includes classroom instruction and practical application on the Bullseye system and equipment block diagrams of the various components. Preventive maintenance and minor corrective maintenance procedures applicable to the OPEG, AN/FRD-10, AN/FLR-11, AN/FRA-54, and the AN/ERQ-15 are also taught.

**Credit Recommendation:** No credit because of the military-specific nature of the course (1/77).

**NV-1715-0819**

**CRYPTOLOGIC TECHNICIAN M, BULLSEYE**
**NARROWBAND MAINTENANCE**

*(BULLSEYE NARROWBAND MAINTENANCE TECHNICIAN)*

_Course Number:_ A-102-015.
_Location:_ Naval Technical Training Center, Corry Station, Pensacola, FL.
_Length:_ 2 weeks (1120 hours).
_Exhibit Dates:_ 7/77–Present.

**Objectives:** To provide personnel with the cryptographic technician M rating with sufficient experience to perform electronic maintenance on the Bullseye Narrowband system.

**Instruction:** Subjects covered include principles, history, and evaluation of high-frequency direction finding; antenna systems; electromagnetic, electrical, electronic, and cryptographic theory; principles of operation; preventive and corrective maintenance procedures and techniques in the high-frequency, direction-finding equipment; proper use of test equipment to evaluate high-frequency, direction-finding antenna systems.

**Credit Recommendation:** In the vocational certificate category, 6 semester hours in electronic troubleshooting (1/77); in the lower-division baccalaureate/associate degree category, 4 semester hours in introduction to computer science. 3 in computer technician training (1/77).

**NV-1715-0820**

**RESERVE CRYPTOLOGIC TECHNICIAN—IN**
**TERMEDIATE CRYPTOANALYSIS**

*(RESERVE NAVAL SECURITY GROUP 13.1 CRYPTOANALYSIS)*

_Course Number:_ A-232-0056.
_Location:_ Naval Technical Training Center, Corry Station, Pensacola, FL.
_Length:_ 2 weeks (80 hours).

**Exhibit Dates:** 1/77–Present.

**Objectives:** To provide working knowledge of the cryptanalytic techniques and practical experience in solving transposition and polygraphic substitution systems employing large tables and small matrices, including four-square, two-square, and Pitman cipher systems, and cryptosystems employing irregular cipher-text units.

**Instruction:** Instruction consists of a brief review of cryptographic terminology and techniques used in the solution of unilateral and multilateral substitution systems, including transposition ciphers and various polygraphic substitution systems.

**Credit Recommendation:** No credit because of the military-specific nature of the course (1/77).

**NV-1715-0821**

**RESERVE CRYPTOLOGIC TECHNICIAN**
**PROCESSING AND REPORTING, PHASE I**

*(PROCESSING AND REPORTING)*

_Course Number:_ A-232-0054.
_Location:_ Naval Technical Training Center, Corry Station, Pensacola, FL.
_Length:_ 2 weeks (80 hours).
_Exhibit Dates:_ 1/77–Present.

**Objectives:** To provide an introduction to basic traffic analysis.

**Instruction:** Course includes the construction of a matrix of intercepted messages; analysis by means of call signs and message external of intercepted traffic.

**Credit Recommendation:** No credit because of the military-specific nature of the course (1/77).

**NV-1715-0822**

**RESERVE CRYPTOLOGIC TECHNICIAN**
**PROCESSING AND REPORTING, PHASE II**

*(PROCESSING AND REPORTING)*

_Course Number:_ A-232-0055.
_Location:_ Naval Technical Training Center, Corry Station, Pensacola, FL.
_Length:_ 2 weeks (80 hours).
_Exhibit Dates:_ 1/77–Present.

**Objectives:** To gain knowledge of the report writing phase of processing and reporting operations and to gain practical experience in the preparation of the special intelligence product and technical reports.

**Instruction:** Student will obtain practical experience in assembling and correlating special intelligence materials; in using collocated; in writing special intelligence product reports; in selecting the proper vehicle for electrical reporting and preparing it for transmissions; and in preparing special intelligence product and technical reports in required machinable manipulative formats.

**Credit Recommendation:** No credit because of the military-specific nature of the course (1/77).

**NV-1715-0823**

**RESERVE CRYPTOLOGIC TECHNICIAN**
**SIMULATED OPERATIONAL TRAINING PHASE I**

*(RESERVE NAVAL SECURITY GROUP SIMULATED OPERATIONAL TRAINING PHASE I)*

_Course Number:_ A-232-0051.
_Location:_ Naval Technical Training Center, Corry Station, Pensacola, FL.
_Length:_ 2 weeks (80 hours).
_Exhibit Dates:_ 1/77–Present.

**Objectives:** To provide team training in collection, cryptanalysis, traffic analysis, reporting and forwarding of intercept materials.

**Instruction:** Simulates operations performed by a small Naval security detachment. Using analytic techniques, the group studies complex encrypted rotating call signs and frequency rotas to determine organization and composition (order-of-battle) of the enemy. Under supervision, students copy simulated enemy traffic, perform basic traffic analysis and cryptanalysis, and prepare special intelligence reports for electrical forwarding.

**Credit Recommendation:** No credit because of the military-specific nature of the course (1/77).
**NV-1715-0826**

**RESERVE CRYPTOLOGIC TECHNICIAN**

**SIMULATED OPERATIONAL TRAINING PHASE II**

**RESERVE NAVAL SECURITY GROUP SIMULATED OPERATIONS TRAINING PHASE II**

- **Course Number:** A-232-0057
- **Location:** Naval Technical Training Center, Caffery Station, Pensacola, FL.
- **Length:** 24 weeks (948 hours)
- **Exhibit Dates:** 1/77-Present

**Objectives:**
- To provide advanced training in communication, direction finding, cryptanalysis, traffic analysis, reporting and forwarding of intercept materials.
- Simulates operations performed by a small Naval security group division afloat by applying various cryp-
  tologistic and analytic techniques to simulate enemy intercept. Complex problems, including encrypted
call signs and frequencies are analyzed to determine the location, organization, and composition of the
division afloat (2/77). Students copy simulated enemy chatter and traffic, sort and log intercept, perform
cryptanalysis and traffic analysis and prepare detailed special intelligence summaries and technical reports for electrical forwarding.

**Instruction:**
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Credit Recommendation:**
- No credit because of the military-specific nature of the course (1/77).

**NV-1715-0827**

**RESERVE CRYPTOLOGIC TECHNICIAN**

**SIMULATED OPERATIONAL TRAINING PHASE III**

**RESERVE NAVAL SECURITY GROUP SIMULATED OPERATIONS TRAINING PHASE III**

- **Course Number:** A-232-0052
- **Location:** Naval Technical Training Center, Caffery Station, Pensacola, FL.
- **Length:** 2 weeks (80 hours)
- **Exhibit Dates:** 2/77-Present

**Objectives:**
- To provide a realistic operational environment for advanced training in traffic analysis including reporting and forwarding of intercept materials.
- In the realistic environment students are responsible for quickly and accurately special intelligence responses. Problems generated include advanced traffic analysis of call signs and frequencies, order-of-battle analysis of call sign and frequency rota,
  and accurate special intelligence responses. Problems generated include advanced traffic analysis including reporting and forwarding of intercept materials.

**Instruction:**
- In-depth coverage of traffic analysis including reporting and forwarding of intercept materials.
- Teaches preventive and corrective maintenance of computer systems. Includes basic safeguards for security; use of maintenance documentation, security practices and principles, control and maintenance of antenna and RF distribution systems, radio receivers, and tape recorders. Principles of TTY and communication terminal equipment, use of common and special purpose test equipment.

**Credit Recommendation:**
- No credit because of the military-specific nature of the course (1/77).

**NV-1715-0828**

**CRYPTOLOGIC TECHNICIAN M, C4**

**WIDEBAND MAINTENANCE**

- **Course Number:** A-102-0109
- **Location:** Naval Technical Training Center, Caffery Station, Pensacola, FL.
- **Length:** Self-paced 12 weeks (480 hours)
- **Exhibit Dates:** Version 1: 2/77-Present, Version 2: 6/74-1/77

**Objectives:**
- To teach basic electronic maintenance of equipment used in conjunction with cryplogistic mission.
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Instruction:**
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Credit Recommendation:**
- No credit because of the military-specific nature of the course (1/77).

**NV-1715-0829**

**CRYPTOLOGIC TECHNICIAN M, C3**

**WIDEBAND MAINTENANCE**

- **Course Number:** A-102-0109
- **Location:** Naval Technical Training Center, Caffery Station, Pensacola, FL.
- **Length:** Self-paced 12 weeks (480 hours)
- **Exhibit Dates:** Version 1: 2/77-Present, Version 2: 6/74-1/77

**Objectives:**
- To teach basic electronic maintenance of equipment used in conjunction with cryplogistic mission.
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Instruction:**
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Credit Recommendation:**
- No credit because of the military-specific nature of the course (1/77).

**NV-1715-0831**

**AVIATION SQUADRON ELECTRONIC WARFARE (EW) OFFICER (EWO), CLASS A2**

- **Course Number:** C-2D-3814
- **Location:** Naval Technical Training Center, Caffery Station, Pensacola, FL.
- **Length:** 4 weeks (148-160 hours)
- **Exhibit Dates:** 1/77-Present

**Objectives:**
- To provide formal training for the aviation officer assigned to an electronic warfare officer billet in a tactical air/anti-submarine warfare squadron.
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Instruction:**
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Credit Recommendation:**
- No credit because of the military-specific nature of the course (1/77).

**NV-1715-0832**

**NAVAL SECURITY GROUP DIRECT SUPPORT OPERATIONS (OFFICER DIRECT SUPPORT OPERATIONS, CLASS C4)**

- **Course Number:** A-3B-0012
- **Location:** Naval Technical Training Center, Caffery Station, Pensacola, FL.
- **Length:** Self-paced 4 weeks (148-160 hours)
- **Exhibit Dates:** 1/77-Present

**Objectives:**
- To train junior officers for assignment to a Naval security direct support unit.
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Instruction:**
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Credit Recommendation:**
- No credit because of the military-specific nature of the course (1/77).

**NV-1715-0833**

**CRYPTOLOGIC TECHNICIAN R HIGH FREQUENCY DIRECTION FINDER (HDF) OPERATOR (HIGH FREQUENCY DIRECTION FINDER OPERATOR, CLASS C3)**

- **Course Number:** A-231-0012
- **Location:** Naval Technical Training Center, Caffery Station, Pensacola, FL.
- **Length:** Self-paced 5 weeks (188-200 hours)
- **Exhibit Dates:** 1/77-Present

**Objectives:**
- To provide background, theory, and knowledge of procedures necessary to operate direction-finding equipment in current use.
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Instruction:**
- In-depth coverage of programming logic diagram analysis and maintenance procedures for the CP-818A computer and associated I/O devices. Includes computer precautions and procedures.

**Credit Recommendation:**
- No credit because of the military-specific nature of the course (1/77).
COURSE EXHIBITS

NV-1715-0834

RESERVE CRYPTOLOGIC TECHNICIAN DIRECT SUPPORT

(RESTRAINING OFFICER DIRECT SUPPORT OPERATIONS, CLASS F1)

Course Number: A-230-0016.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: 2 weeks (80 hours).
Exhibit Dates: 1/77-Present.

Objectives: Learn about Naval security group elements afloat and to enable students to perform in responsible, often independent positions.

Instruction: Student is trained to assume duties as officer in charge or leading petty officer of a naval security group afloat: emphasis is placed on independent operations. Tactical and operational control methods are explained and proper use of governing directives is stressed.

Credit Recommendation: No credit because of the military-specific nature of the course (1/77).

NV-1715-0835

CRYPTOLOGIC TECHNICIAN M AN/FLR-15 WLR-11A

Course Number: A-102-0094.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: Self-paced 36 weeks (1428-1440 hours).
Exhibit Dates: 11/75-Present.

Objectives: To teach preventive and corrective maintenance on the AN/FLR-15 equipment.

Instruction: Subjects include electromechanical, electrical, and electronic theory; principles of operation; preventive and corrective maintenance procedures and techniques on the AN/FLR-15, OL-125 and associated test equipment.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in basic digital circuits and 3 in PDP 14/35 Computer Technician training (1/77).

NV-1715-0836

CRYPTOLOGIC TECHNICIAN R, CLASS A

(CRYPTOLOGIC TECHNICIAN COLLECTION BRANCH)

Course Number: A-231-0044.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: Self-paced, 22 weeks (880 hours).
Exhibit Dates: 11/73-Present.

Objectives: To provide basic instruction and practical application in intercept of Morse communications.

Instruction: Includes operation of radio receiving equipment and typewriters; basic subjects on security; communication procedures and systems; theory and operation of communication equipment. Provides basic instruction and practical application in intercept of Morse communications and develops ability to copy Morse code at a speed of 16 GPM and touch type at 25 WPM.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics or general technical subjects (9/77).

NV-1715-0837

CRYPTOLOGIC TECHNICIAN T, CLASS A

(CRYPTOLOGIC TECHNICIAN T, PRIMARY BRANCH, CLASS A)

Course Number: A-231-0045.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: Self-paced 13 weeks (508-520 hours).
Exhibit Dates: 5/75-Present.

Instruction: Provides instruction and practical experience in intercept of non-Morse communications.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications (1/77).

NV-1715-0838

CRYPTOLOGIC TECHNICIAN T, FIELD OPERATIONS TYPE ONE, CLASS A3, SPECIAL NON-MORSE

(CRYPTOLOGIC TECHNICIAN T, FIELD OPERATIONS TYPE ONE)

Course Number: A-231-0046.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: Self-paced 5 weeks (200 hours).
Exhibit Dates: 1/77-Present.

Objectives: To provide instruction and training in intercept of non-Morse communications.

Instruction: Includes concepts of collection analysis reporting and forwarding on non-Morse (plain text and encrypted) communications signals and the operation of the AN/GSO-76 data acquisition system (TEBO) and associated equipment.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic communications equipment (1/77).

NV-1715-0840

CRYPTOLOGIC TECHNICIAN T, FIELD OPERATIONS TYPE THREE, CLASS A3, AN/FLR-11/15 OPERATIONS

(CRYPTOLOGIC TECHNICIAN T, FIELD OPERATIONS TYPE THREE)

Course Number: A-231-0024.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: Self-paced 6 weeks (228-240 hours).
Exhibit Dates: 5/76-Present.

Objectives: To provide training to operate all components of the AN/FLR-11 and AN/FLR-15.

Instruction: Topics include theory and knowledge of procedures necessary to operate the AN/FLR-11 and AN/FLR-15; operating and basic adjustments; equipment demonstrations; practical application; and simulated watchstanding.

Credit Recommendation: In the vocational certificate category, 3 semester hours in communications equipment (1/77).

NV-1715-0841

COUNTERMEASURES RECEIVING SET AN/SQ-20 WITH AN/SLV-1 COUNTERMEASURES SET MAINTENANCE

(COUNTERMEASURES SET AN/SQ-26, CLASS C-1)

Course Number: A-102-0150.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: 5 weeks (188-200 hours).
Exhibit Dates: 7/75-Present.

Objectives: To provide technical training in the maintenance of the AN/SQ-20 and associated equipment in a shipboard environment with minimum supervision.

Instruction: Subjects include digital logic review, alignment, repair, and preventive maintenance of the AN/WL-11A and interface with AN/WL-1.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic communications equipment (1/77).

NV-1715-0842

AN/SQ-19 and AN/SQ-26(V) WITH AN/SLO-1 COUNTERMEASURES SET MAINTENANCE

(COUNTERMEASURES SET AN/SQ-26, CLASS C-1)

Course Number: A-102-0192.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: 10 weeks (400 hours).
Exhibit Dates: 7/74-Present.

Objectives: To prepare personnel to operate, maintain, and repair the AN/SLO-19 and AN/SLO-26(V) systems.

Instruction: Topics include digital logic review, alignment, repair, and preventive maintenance of the AN/SLO-19 and AN/SLO-26(V) systems, including the AN/SLO-1.

Credit Recommendation: In the vocational certificate category, 6 semester hours in communications electronics (1/77).

NV-1715-0843

CRYPTOLOGIC TECHNICIAN T, FLEXSCOP OPERATOR (FLEXSCOP OPERATOR, CLASS C-3)

Course Number: A-231-0025.
NV-1715-0844
RESERVE CRYPTOLOGIC TECHNICIAN-T, ADVANCED, CLASS F1
(RESERVE NAVAL SECURITY GROUP-10-T)
(Location: Naval Technical Training Center, Corry Station, Pensacola, FL.)
Course Number: A-231-0041.
Length: 2 weeks (80 hours).
Exhibit Dates: 1/73-Present.
Objectives: To provide basic and update branch training beyond the Naval Security group technical level level training.
Instruction: Course provides current professional, practical, and knowledge factor requirements in communications equipment operation.
Credit Recommendation: In the vocational certificate category, 1 semester hour in communications equipment operation (1/77).

NV-1715-0845
RESERVE CRYPTOLOGIC TECHNICIAN SIGNAL ANALYSIS, CLASS F1
(RESERVE NAVAL SECURITY GROUP-5)
(Location: Naval Technical Training Center, Corry Station, Pensacola, FL.)
Course Number: A-232-0049.
Length: 2 weeks (80 hours).
Exhibit Dates: 1/72-Present.
Objectives: Students learn about various types of communication signals currently in use throughout the world.
Instruction: Introduction to modulation; transmission; graphic analysis; fundamental use of the sonograph and undulator recorder; step-by-step breakdown of all non-Morse transmissions, beginning with basic transmissions and progressing to complex signals.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronic communications (1/77).

NV-1715-0846
CRYPTOLOGIC TECHNICIAN T, FLEXSCOPIST PROGRAMMER, CLASS C3
Course Number: A-532-0016.
Location: Naval Technical Training Center; Corry Station, Pensacola, FL.
Length: Self-paced 19 weeks (760 hours).
Exhibit Dates: 3/74-Present.
Objectives: To teach skills necessary to perform systems analyst/programmer functions using the C-818/1 computer and the Flexscope system.
Instruction: Subjects include program writing, assembling systems/programs, and troubleshooting faulty programs/systems, and instruction related to on-site program application.
Credit Recommendation: In the vocational certificate category, 3 semester hours in computer operation (1/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in computer science assembly language (1/77).

NV-1715-0848
RESERVE CRYPTOLOGIC TECHNICIAN COMMUNICATIONS TECHNICAL CONTROL, CLASS F1
(RESERVE NAVAL SECURITY GROUP-7 COMMUNICATIONS TECHNICAL CONTROL)
Course Number: A-580-0026.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: 2 weeks (80 hours).
Exhibit Dates: 1/74-Present.
Objectives: To teach basic communications technical control and emergency operation/administrative procedures, telegraph signal characteristics and printing systems, signal distortion, safety, DC patching, telegraph test equipment, control reporting cryptographic equipment and setup/operation procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in teletype equipment (1/77).

NV-1715-0849
CRYPTOLOGIC TECHNICIAN O, TACTICAL COMMUNICATIONS SYSTEMS OPERATIONS AND MANAGEMENT, CLASS C3
Course Number: A-580-0020.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: Self-paced 12 weeks (480 hours).
Exhibit Dates: 3/75-Present.
Objectives: To provide training in tactical communications systems operation and management.
Instruction: Includes basic theory of electricity; operating principles of transmitters, receivers, transmission lines and multiplexers; circuit control and traffic reporting procedures; shipboard communications; high frequency direction-finding (HFDF) operations and communications; and communications management.
Credit Recommendation: In the vocational certificate category, 3 semester hours in basic electricity and 6 in radio communications (1/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in management procedures (1/77).

NV-1715-0850
CRYPTOLOGIC TECHNICIAN O, CLASS A3
(CRYPTOLOGIC TECHNICIAN COMMUNICATIONS TECHNICAL CONTROL, CLASS F1)
Course Number: A-580-0016.
Location: Naval Technical Training Center, Corry Station, Pensacola, FL.
Length: Self-paced 17 weeks (668-680 hours).
Exhibit Dates: 10/75-Present.
Objectives: Provides instruction in basic radio printer communications systems.
Instruction: Includes cryptographic equipment operating techniques; developing teletypewriter operator skills; Naval message format preparation, the tape relay procedure, method of message delivery; communications' security, organization, systems, and planning.
Credit Recommendation: In the vocational certificate category, 3 semester hours in teletype usage (1/77).

NV-1715-0851
ELECTRONICS TECHNICIAN A, COMMUNICATIONS (ELECTRONICS TECHNICIAN COMMUNICATIONS BASIC, CLASS A1)
Course Number: A-102-0227.
Location: Service School Command, Great Lakes, IL.
Length: 17 weeks (619 hours).
Exhibit Dates: 10/77-Present.
Objectives: To provide knowledge and skills in electronics fundamentals and electronic circuit analysis.
Instruction: Subjects include basic electronics technology, troubleshooting procedures, use of basic, electronics test equipment and common hand tools, and introduction to communications fundamentals.
Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity and electronics, 6 in radar principles, 2 in electronics laboratory (10/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics, 3 in radar systems (10/77).

NV-1715-0852
ELECTRONICS TECHNICIAN COMMUNICATIONS EQUIPMENT FUNDAMENTALS, CLASS A1
Course Number: A-102-0228.
Location: Service School Command, Great Lakes, IL.
Length: 13 weeks (422 hours).
Exhibit Dates: 10/77-Present.
Objectives: To develop troubleshooting skills using generic communications systems.
Instruction: Course includes principles of operation, 3M documentation, corrective and preventive maintenance techniques for generic communications systems (AN/WRC-1, R-1051, AN/JRC-35, AN/URT-23, AN/JRA-38, AN/SRC-30/21, AN/UCC-1, Teletype System).
Credit Recommendation: In the vocational certificate category, 7 semester hours in communications equipment (10/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in communications laboratory (10/77).

NV-1715-0853
ELECTRONICS TECHNICIAN COMMUNICATIONS—NUCLEAR FIELD, CLASS A1
Course Number: A-102-0226.
NV-1715-0856

ELECTRONICS TECHNICIAN RADAR—NUCLEAR FIELD, CLASS A1
Course Number: A-104-0172.
Location: Service School Command, Great Lakes, IL.
Length: 21 weeks (729 hours).
Exhibit Dates: 10/77-Present.
Objectives: To develop troubleshooting skills using generic communication equipment.

Instruction: Topics include basic electronic troubleshooting techniques, troubleshooting procedures, basic electronics test equipment and common hand tools, introduction to communications, principles of operation, 3M documentation, corrective and preventive maintenance techniques for generic communications equipment AN/WRC-1, K-1051, AN/URC-35, AN/URT-23, and AN/URA-38.

Credit Recommendation: In the vocational certificate category, 3 semester hours in electricity and electronics, 2 in radar systems (10/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 3 in radar systems, and 1 in communications laboratory (10/77).

NV-1715-0860

SONAR AN/SQQ-23 (PAIR) OPERATOR BASIC
Course Number: A-130-0097.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA; Fleet Mine Warfare Training Center, Charleston, SC.
Length: 8 weeks (239 hours).
Exhibit Dates: 8/77-Present.
Objectives: To provide nuclear field electronics technicians with a basic knowledge of electronic fundamentals and develop troubleshooting skills using generic radar equipment.

Instruction: Subjects are basic electronic troubleshooting techniques and troubleshooting procedures including use of basic electronics test equipment and common hand tools; introduction to radar; principles of operation; 3M documentation; corrective and preventive maintenance techniques for generic radar equipment AN/SPS-10; electronics in dry air systems.

Credit Recommendation: In the vocational certificate category, 6 semester hours in electricity and electronics, 2 in electronics laboratory (10/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, 3 in radar systems, and 1 in communications laboratory (10/77).

NV-1715-0858

SONAR AN/SQS-35(JVDS) OPERATOR (SONAR AN/SQS-35V) AN/SQS-38 OPERATOR BASIC
Course Number: A-130-0085.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 8 weeks (239 hours).
Exhibit Dates: 8/77-Present.
Objectives: To train personnel to operate the AN/SQS-35(JVDS) or AN/SQS-38 sonar.

Instruction: Lectures and practical exercises in the operation of AN/SQS-35(JVDS) or AN/SQS-38 sonar sets and associated equipment.

Credit Recommendation: No credit because of the limited specialized nature of the course (8/77).

NV-1715-0859

SONAR AN/SQQ-23A (PAIR) ORGANIZATIONAL MAINTENANCE
Course Number: A-130-0096.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 25 weeks (744 hours).
Exhibit Dates: 5/76-Present.
Objectives: To provide nuclear technicians with skills and knowledge to maintain the sonar signal processing system and electronic trouble shoot, maintenance, repair and replacement procedures.

Instruction: Courses are offered in: 6 weeks (352 hours) for AN/SQQ-23A; 6 weeks (352 hours) for AN/SQQ-23B; and 6 weeks (352 hours) for AN/SQQ-23C.

Credit Recommendation: No credit because of the limited specialized nature of the course (8/77).

NV-1715-0861

SONAR AN/SQS-53 OPERATOR BASIC
Course Number: A-130-0103.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 8 weeks (116 hours).
Exhibit Dates: 8/76-Present.
Objectives: To train personnel to operate the AN/SQS-53 sonar.

Instruction: Course content concerns the operation of the AN/SQS-53 sonar.

Credit Recommendation: No credit because of the limited specialized nature of the training (8/77).

NV-1715-0862

SONAR AN/SQR-17 ORGANIZATIONAL MAINTENANCE (SONAR AN/SQR-17 AND AN/SKR-4 ORGANIZATIONAL MAINTENANCE)
Course Number: A-130-0110.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 11 weeks (352 hours).
Exhibit Dates: 4/76-Present.
Objectives: To provide nuclear technician maintenance, repair and replacement procedures for the AN/SQR-17 and AN/SKR-4 sonar.

Instruction: Courses are offered in: 6 weeks (352 hours) for AN/SQR-17; and 6 weeks (352 hours) for AN/SKR-4.

Credit Recommendation: No credit because of the limited specialized nature of the training (8/77).
NV-1715-0863
SONAR AN/SQS-26 BX MAINTENANCE
Course Number: A-130-0046.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 20 weeks (625 hours).
Exhibit Dates: 12/76-Present.
Objectives: Prepare personnel for preventive and corrective maintenance of the AN/SQS-26BX system.
Instruction: Topics include the operation and maintenance of the AN/SQS-26BX system.
Credit Recommendation: In the vocational certificate category, 4 semester hours in electronic troubleshooting (8/77).

NV-1715-0864
SONAR AN/SQS-23 D-G SERIES (TRAM) MAINTENANCE
(SONAR AN/SQS-23 D-G SERIES TRAM, MIP, LORA MAINTENANCE)
Course Number: A-130-0049.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 12 weeks (375 hours).
Exhibit Dates: 8/76-Present.
Objectives: To train sonar technicians to maintain the AN/SQS-23 system.
Instruction: Topics include basic electronics, DC and AC theory, vacuum tubes, solid state devices, transmission systems, components, and test equipment.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic troubleshooting (8/77).

NV-1715-0865
SONAR AN/BQS-11/12/13 MAINTENANCE
(SUBMARINE SONAR AN/BQS-11/12/13 SYSTEMS MAINTENANCE)
Course Number: A-130-0065.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 10 weeks (400 hours).
Exhibit Dates: 5/74-Present.
Objectives: To train sonar technicians in the maintenance of the AN/BQS-11/12/13 system.
Instruction: Topics include basic electronics, DC and AC theory, vacuum tubes, solid state devices, transmission systems, components, and test equipment.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic troubleshooting (8/77).

NV-1715-0866
SONAR AN/SQS-35(V) MAINTENANCE
Course Number: A-130-0069.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 13 weeks (520 hours).
Exhibit Dates: 1/76-Present.
Objectives: To train sonar technicians to maintain, calibrate, and operate the AN/SQS-35(V) sonar and associated equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of the AN/SQS-35(V) sonar systems and associated timing, transmitter, receiver, and servo equipments.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic troubleshooting (8/77).

NV-1715-0867
SONAR ELECTRONICS INTERMEDIATE (SEI)
Course Number: A-130-0039.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 17 weeks (680 hours).
Exhibit Dates: 8/74-Present.
Objectives: To provide enlisted personnel with a basic working knowledge of electronic circuits, electronics, and computer logic circuits.
Instruction: Topics include basic electronics, DC and AC theory, vacuum tubes, solid state devices, transmission systems, components, and test equipment.
Credit Recommendation: In the vocational certificate category, 6 semester hours in electronic troubleshooting (8/77).

NV-1715-0868
SONAR DETECTING/RANGING SET AN/BQS-10, 10A, 14A MAINTENANCE
(AN/BQS-8B, 10A, 14A SONAR SYSTEM MAINTENANCE)
Course Number: A-130-0036.
Location: Fleet Antisubmarine Warfare Training Center, San Diego, CA.
Length: 3 weeks (60–90 hours).
Exhibit Dates: 1/76-Present.
Objectives: To train students to operate the AN/BQS-8B, 10A, 14A and 20 detect and flip-flop switching, memory devices, and biasing techniques.
Instruction: Topics include basic electronics, DC and AC theory, vacuum tubes, solid state devices, transmission systems, components, and test equipment.
Credit Recommendation: In the vocational certificate category, 3 semester hours in electronic troubleshooting (8/77).

NV-1715-0869
DD-963 FACILITIES CONTROL QUALITY MONITORING PROCESSING UNIT OPERATORS
(DD-963 FACILITIES CONTROL QUALITY MONITORING AND MESSAGE PROCESSING (FCCM) OPERATORS, CLASS F-1)
Course Number: A-201-0021.
Location: Service School Command, San Diego, CA.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/77-Present.
Objectives: To provide the skills and knowledge necessary to operate and maintain a radio communications system.
Instruction: Course provides instruction in the operation of quality monitoring and control systems, high frequency radio equipment, and message processing equipment.
Credit Recommendation: In the vocational certificate category, 3 semester hours in communications systems (11/77).

NV-1715-0870
RADIO COMMUNICATIONS SYSTEM MAINTENANCE FOR DD963 CLASS SUBMERSIBLES
Course Number: A-101-0096.
Location: Service School Command, San Diego, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 11/77-Present.
Objectives: To train electronic technicians to operate, align, and repair a radio communications system for Naval vessels.
Instruction: Lectures and laboratories in circuit analysis and block diagrams of receivers and transmitters; logic systems; synthesizers; RF and control sections; power supplies and antennas; and use of test equipment to troubleshoot and repair the specified equipment.
Credit Recommendation: In the vocational certificate category, 3–semester hours in communications systems, 2 in electronics laboratory (11/77); in the lower-division baccalaureate/associate degree category, 2 semester hours in communications systems (11/77).

NV-1715-0871
SUBMARINE SATELLITE INFORMATION EXCHANGE SYSTEM (SSIDXS) OPERATIONAL CONTROL CENTER MAINTENANCE
Course Number: A-101-0081.
Location: Service School Command, San Diego, CA.
Length: 10 weeks (300 hours).
Exhibit Dates: 9/75-Present.
Objectives: To provide the skills and knowledge necessary to operate and maintain a satellite information exchange system operational control center.
Instruction: Students attend ten separate courses in sequence. Units of instruction include the operation and maintenance of the TV-624 line printer, RD-397/U (XN-1) data recorder-reproducer, ON-143 (V3/USQ) interconnecting group, AN/USH-22(V) magnetic tape subsystem, and the AN/USH-23(V) magnetic disk subsystem.
Credit Recommendation: In the vocational certificate category, 3 semester hours in communications systems, 1 in computer peripherals maintenance and 1 in troubleshooting techniques (11/77).

NV-1715-0872
COMMON USER DIGITAL INFORMATION EXCHANGE SYSTEM (CUDIXS) MAINTENANCE
Course Number: A-101-0082.
Location: Service School Command, San Diego, CA.
Length: 19 weeks (570 hours).
Exhibit Dates: 11/75-Present.
Objectives: To provide the skills and knowledge to operate and maintain the common user information exchange system.
Instruction: Students attend ten separate courses in sequence. Units of instruction include the operation and maintenance of...
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the TT-624 line printer, RD-397/U (XN-1) signal data recorder-reproducer, ON-A143(V)/V3/USQ interconnecting group, AN/USH-22(V) magnetic tape subsystem, AN/USH-23(V) magnetic disk subsystem, AN/UYK-20 data processing set, and associated communications systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in communications systems, 3 in computer peripherals, and 1 in operational control center maintenance, and 1 in troubleshooting techniques (11/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital computer systems (11/77).

NV-1715-0873

SUBMARINE SATELLITE INFORMATION EXCHANGE SYSTEM (SSIXS) FOR SHIPBOARD INSTALLATIONS MAINTENANCE

Course Number: A-101-0083.
Location: Service School Command, San Diego, CA; Submarine School, New London, CT.
Length: 16 weeks (480 hours).
Exhibit Dates: 9/75-Present.
Objectives: To provide the skills and knowledge necessary to maintain a satellite information exchange system.

Instruction: Students attend seven separate courses in sequence. Units of instruction include the operation and maintenance of the AN/WSC-3 satellite communications set, AN/UYK-20 data processing set, ON-A143(V)/V3/USQ interconnecting group, and associated communications systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in communications technician training, 3 in computer peripherals maintenance, and 1 in operational control center maintenance laboratories.

NV-1715-0874

FLEET SATELLITE COMMUNICATIONS FLEET BROADCAST CONTROL SUBSYSTEM MAINTENANCE (ELECTRONICS TECHNICIAN, CLASS C1)

Course Number: A-101-0085; A-101-0086.
Location: Service School Command, San Diego, CA.
Length: 2 weeks (65 hours).
Exhibit Dates: 1/77-Present.
Objectives: To provide skills and knowledge in operation and maintenance without supervision of a time division multiplexer and satellite signal receiving set.

Instruction: Theoretical and practical instruction in the operation, troubleshooting, and preventive maintenance of a radio transmitter and a time division multiplexer to the card/module level of operation.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics laboratory (11/77).

NV-1715-0875

NAVAL MODULAR AUTOMATED COMMUNICATIONS SYSTEM (NAVMACS) A0 MAINTENANCE

Course Number: A-101-0089.
Location: Service School Command, San Diego, CA.
Length: 20 weeks (600 hours).
Exhibit Dates: 9/75-Present.
Objectives: To provide the skills and knowledge necessary to operate and maintain a modular automated communications system.

Instruction: Students attend ten separate courses in sequence. Units of instruction include digital computers TT-624 line printer, AN/WSC communications equipment, and various troubleshooting and maintenance laboratories.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics technician training and 1 in troubleshooting techniques (11/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in digital computer systems (11/77).

NV-1715-0876

AN/WSC-3 STAND-ALONE MAINTENANCE . (AN/WSC-3 SATELLITE COMMUNICATIONS SET AND OE-828/WSC-1(V) ANTENNA)

Course Number: A-101-0138.
Location: Service School Command, San Diego, CA; Fleet Training Center, Norfolk, VA.
Length: 3 weeks (90 hours).
Exhibit Dates: 6/77-Present.
Objectives: To provide the skills and knowledge required to operate and maintain a satellite communications set and related antenna equipment.

Instruction: Theoretical and practical instruction in equipment operation, troubleshooting, and preventive maintenance of a satellite communications set.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics technician training (11/77).

NV-1715-0877

AN/WSC-5 TACTICAL SATELLITE COMMUNICATIONS SYSTEM MAINTENANCE (TACTICAL SATELLITE COMMUNICATIONS EQUIPMENT MAINTENANCE AN/WSC-5(V))

Course Number: A-102-0126.
Location: Service School Command, San Diego, CA.
Length: 7 weeks (210 hours).
Exhibit Dates: 11/77-Present.
Objectives: To provide the skills and knowledge for the maintenance of the AN/WSC-5(V) tactical satellite communications equipment.

Instruction: Theoretical and practical instruction in the operation, troubleshooting, and preventive maintenance of a missile fire control system, including control logic, program timer, display, simulator, power supplies, launcher alignment, calibration, launcher troubleshooting, fault analysis, and repair. Course is a combination consisting of the following: Polaris A3 Missile Advanced Training (A-121-0261), Missile Test and Readiness Equipment (MTRE) Mk 3 Programmer Timer Digital Multimeter Advanced Training (A-121-0362), Missile Test and Readiness Equipment Mk 3 Measurement, Display and Simulation Groups Advanced Training (A-121-0263), Guidance Power Supplies Mk 115/116 Advanced Training (A-121-0266), Missile Test and Readiness Equipment Mk 3 Measurement, Display and Simulation Groups Advanced Training (A-121-0267) and Mk 3 Mods 4 and 5 Operation/Interface and Mechanical Repair Advanced Training (A-121-0264) and either Mk 17 Mod 1 Launcher Advanced Training (A-121-0271) and Mk 17 Launcher Pneumatic (A-121-0273) or Mk 21 Mod 2 Launcher Advanced Training (A-121-0272) and Mk 21 Launcher Pneumatic (A-121-0274).

NV-1715-0878

SUBMARINE SATELLITE INFORMATION EXCHANGE SYSTEM (SSIXS)

NV-1715-0879

COMMON USERS DIGITAL INFORMATION EXCHANGE SYSTEM (CUDIXS) OPERATORS

Course Number: A-202-0021.
Location: Service School Command, San Diego, CA.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/77-Present.
Objectives: To train technicians as designated operators of a submarine satellite information exchange system operational control center shore message processing system.

Instruction: Lessons and instruction on the operation and use of the operational control center system; message modes, control console and releaves. In the memory; monitoring of the system for sequential operational steps for proper operation.

Credit Recommendation: No credit because of the limited specialized nature of the course (11/77).

NV-1715-0880

MISSILE, TECHNICIAN POLARIS CONVERSION

Course Number: A-121-0461.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 12 weeks (360 hours).
Exhibit Dates: 1/76-Present.
Objectives: To teach the theory, operation, maintenance, and repair of a Polaris launching system.

Instruction: Course offers a study of the functional operation and schematic analysis of a missile fire control system, including control logic, program timer, display, simulator, power supplies, launcher alignment, calibration, launcher troubleshooting, fault analysis, and repair. Course is a combination consisting of the following: Polaris A3 Missile Advanced Training (A-121-0261), Missile Test and Readiness Equipment (MTRE) Mk 3 Programmer Timer Digital Multimeter Advanced Training (A-121-0362), Missile Test and Readiness Equipment Mk 3 Measurement, Display and Simulation Groups Advanced Training (A-121-0263), Guidance Power Supplies Mk 115/116 Advanced Training (A-121-0266), Missile Test and Readiness Equipment Mk 3 Measurement, Display and Simulation Groups Advanced Training (A-121-0267) and Mk 3 Mods 4 and 5 Operation/Interface and Mechanical Repair Advanced Training (A-121-0264) and either Mk 17 Mod 1 Launcher Advanced Training (A-121-0271) and Mk 17 Launcher Pneumatic (A-121-0273) or Mk 21 Mod 2 Launcher Advanced Training (A-121-0272) and Mk 21 Launcher Pneumatic (A-121-0274).
Credit Recommendation: In the vocational certificate category, 4 semester hours in electronics technology for completion of all components of the entire course (9/77); in the lower-division baccalaureate/associate degree category, 5 semester hours in electronic technology for completion of all components of the entire course (9/77).

NV-1715-0881
NAVIGATION TECHNICIAN SSN 668 CLASS
Course Number: A-193-0103.
Location: Submarine Navigation Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 9/7/77.-Present.
Objectives: To provide instruction in the operation and maintenance of specified equipment such as gyro equipment, electronic compass equipment, and related equipment onboard submarines.

NV-1715-0895
SUBMARINE COMMUNICATIONS EQUIPMENT COMBINED MAINTENANCE (SUBMARINE COMMUNICATIONS EQUIPMENT.) (RADIO EQUIPMENT SUBMARINE MAINTENANCE)
Course Number: A-101-0061; A-101-0062.
Location: Submarine School, New London, CT; Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (840 hours).
Exhibit Dates: 7/7/77.-Present.
Objectives: Course is designed to train technicians to operate, maintain, and repair a submarine communications system.

NV-1715-0885
SUBMARINE ELECTRONIC SURVEILLANCE MEASURES (ESM) TECHNICIAN SSN 637 CLASS, CLASS C-1
Course Number: A-233-0044.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 22 weeks (660 hours).
Exhibit Dates: 12/72.-Present.
Objectives: To provide instruction in the operation of specified electronic equipment onboard submarines.

NV-1715-0883
ELECTRONIC SURVEILLANCE MEASURES (ESM) TECHNICIAN SSN 637 CLASS, CLASS C-1
Course Number: A-233-0044.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 22 weeks (660 hours).
Exhibit Dates: 12/72.-Present.
Objectives: To provide instruction in the operation of specified electronic equipment onboard submarines.

NV-1715-0884
MISSILE TEST AND READINESS EQUIPMENT (MTRE) Mk 3 PROGRAMMER/TECHNICAL DIGITAL MULTIMETER ADVANCED TRAINING, CLASS C
Course Number: A-121-0262.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 6/7/74.-Present.
Objectives: Course is designed to train technicians to operate, maintain, and repair a submarine communications system.

NV-1715-0882
585/594 PBM ELECTRONIC SURVEILLANCE MEASURES (ESM) TECHNICIAN
Course Number: A-233-0047.
Location: Submarine Navigation Training Center, Pacific, Pearl Harbor, HI.
Length: 20 weeks (540 hours).
Exhibit Dates: 9/7/77.-Present.
Objectives: Course is designed to train technicians to operate, maintain, and repair a submarine communications system.

NV-1715-0886
INTERIOR COMMUNICATIONS (IC) PACKAGE COURSE FOR SSN/SSBN
Course Number: A-623-0030.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 10 weeks (400 hours).
Exhibit Dates: 7/7/77.-Present.
Objectives: Course is designed to train technicians to operate, maintain, and repair a submarine communications system.
CV 0000

Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Submarine School, New London, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 7/76-Present.

Objectives: To provide non-nuclear submarine electronics technician personnel training in the operation and maintenance in specified equipment.

Instruction: Course is a combination of the following: AN/BPS-15 Combined Maintenance (A-102-0199); IFF AN/APX-72 and AN/UPX-17 Combined Maintenance (A-102-0229); Basic Computer Theory (A-100-0045, A-100-0032), Periscpe Type V Combined Maintenance (A-102-0157); and ESM AN/WLR-8 Combined Maintenance (A-233-0040).

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics technician training (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics technology, 5 in computer technology, 2 in electronics engineering, and an additional 5 in electronics technology or computer technology, all to be credited only for completion of all components of the entire course (9/77).

NV-1715-0891
ALIGNMENT GROUP Mk 1 MODS 0 AND 1, CLASS F-8

Course Number: A-121-0283; L-121-0056.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 8 weeks (120 hours).
Exhibit Dates: 7/77-Present.

Objectives: To provide non-nuclear submarine electronics technician personnel training in the operation and maintenance in specified equipment.

Instruction: Course is a combination of the following: AN/BPS-15 Combined Maintenance (A-102-0199); IFF AN/APX-72 and AN/UPX-17 Combined Maintenance (A-102-0229); Basic Computer Theory (A-100-0045, A-100-0032), Periscpe Type V Combined Maintenance (A-102-0157); and ESM AN/WLR-8 Combined Maintenance (A-233-0040).

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics technician training (9/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics technology, 5 in computer technology, 2 in electronics engineering, and an additional 5 in electronics technology or computer technology, all to be credited only for completion of all components of the entire course (9/77).

NV-1715-0892
CONTROLS AND INDICATORS, FIRE CONTROL SYSTEM (FCS) Mk 80, CLASS F-1

Course Number: A-121-0279; L-121-0053.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (79 hours).
Exhibit Dates: 10/74-Present.

Objectives: To provide training for maintenance and repair of the Mk 49 control computer and the attack center indicating panel Mk 225.

Instruction: Course includes maintenance supportive theory which does not involve signal or electron flow or detailed mechanical breakdown except for the specified equipment. Student obtains skills to perform fault isolation and repairs on specified equipment.

Credit Recommendation: No credit because of the limited specialized nature of the course (9/77).

NV-1715-0893
POLARIS TARGET CARD COMPUTER SYSTEM Mk 148 MOD 0 MAINTENANCE, CLASS F-1

Course Number: A-121-0276.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 6/73-Present.

Objectives: This is an application course utilizing theory acquired in the Polaris Target Card Computer System Mk 148 Mod 0 Theory Course (A-121-0275).

Instruction: Course offers laboratory work involving fault isolation and repair of the Polaris target card computer system (PTCCS). Mk 148 Mod 0. Corrective maintenance is stressed.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics technology (9/77).

NV-1715-0894
POLARIS TARGET CARD COMPUTER SYSTEM Mk 148 MOD 0 THEORY, CLASS F-1

Course Number: A-121-0275; L-121-0049.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 3 weeks (84 hours).
Exhibit Dates: 8/74-Present.

Objectives: To present a theory course supporting corrective maintenance of the Polaris target card computer system Mk 148 Mod 0.

Instruction: Course offers advanced theory involving control, logic, signal flow and sequential operation of the Polaris target card computer system (PTCCS); includes fault isolation procedures, repair and replacement of components, as well as functional interface with the remainder of the weapons system including power requirements and input and output signals in terms of type, format, source and destination.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in logic and control systems (9/77).

NV-1715-0895
DATA COMPUTATION AND TRANSMISSION LOOP'S FIRE CONTROL SYSTEM (FCS) Mk 80, CLASS C-1

Course Number: A-121-0280; L-121-0044.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 3 weeks (90 hours).
Exhibit Dates: 10/74-Present.
Objectives: To provide training for correct maintenance of the FCS Mk 80 Model 1 and 2.

Instruction: Course offers maintenance support training which does not involve signal or electron flow or detailed mechanical component breakdown except for the specialized equipment specified.

Credit Recommendation: No credit because of the limited specialized nature of the course (9/77).

NV-1715-0896 ELECTRONIC TEST EQUIPMENT BASIC OPERATOR, CLASS F1 (ELECTRONIC TEST EQUIPMENT OPERATOR) 
Course Number: A-198-0023; L-198-0012.

Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 4/74-Present.

Objectives: To provide the training necessary to enable the student to effectively care for and use common types of test equipment.

Instruction: The course explains the proper care and use of DC current and voltimeters, AC voltmeters, ohmmeter, vacuum tube voltmeters, differential voltmeters, and the volt-ohm-milliammeter. Measuring accuracy and the loading effects of a voltmeter are explained. Practical exercises using an ohmmeter to test transistors and the use of meters in transistor and tube circuits are given. Oscilloscopes, RF generators, and frequency counters operation are explained and their use in aligning superhetrodyne receivers is given as a practical exercise.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics technology (9/77).

NV-1715-0897 POLARIS TARGET CARD COMPUTER SYSTEM PERIPHERAL EQUIPMENT, CLASS C1 
Course Number: A-121-0277; L-121-0051.

Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 4 weeks (120 hours).
Exhibit Dates: 9/74-Present.

Objectives: Teaches corrective maintenance of a computer tape reader, a card punch/reader, and an IBM selective typewriter transmitter receiver.

Instruction: Course concentrates on operational tests and procedures for the maintenance of the equipment specified; provides the theory necessary to support all corrective maintenance without going into signal electron flow or detailed mechanical component breakdown except for those components, unique to the peripheral equipment. Also provides skills to perform fault isolation and make repairs with limited supervision to the card punch/reader, punched tape reader, and the typewriter transmitter receiver.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics technology (9/77).

NV-1715-0898 CONTROLLERS AND CIRCUIT BREAKERS COMBINED MAINTENANCE (CIRCUIT BREAKERS AND CONTROLLERS) (CONTROLLERS CIRCUIT BREAKERS, CLASS F1) 
Course Number: A-662-0038; L-662-0013.

Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Fleet Ballistic Missile Training Center, Charleston, SC; Submarine School, Groton, CT.
Length: 2 weeks (60-62 hours).
Exhibit Dates: 6/72-Present.

Objectives: To provide necessary principles of circuit breakers and controllers to enable effective maintenance and repair of equipment used on submarines.

Instruction: Approximately 30 percent of course is devoted to theory and characteristics of circuit breakers, under voltage relays, under frequency relays, various tripping devices and the fundamentals of DC voltmeters and AM meters. Student learns pertinent characteristics, and the principle of operation, maintenance and adjustments on 6 types of circuit breakers and 5 types of controllers used aboard submarines.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics technology (9/77).

NV-1715-0899 POLARIS LORAN 'C' ADVANCED TRAINING (LORAN 'C' ADVANCED MAINTENANCE) (LORAN 'C' AN/WPN REFRESHER MAINTENANCE CLASS F1) 
Course Number: A-193-0258; L-193-0011.

Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (6 hours).
Exhibit Dates: 9/74-Present.

Objectives: To offer the theory of operation of a Loran 'C' receiver and to teach the student to perform fault isolation and make repairs.

Instruction: Course covers tuning loop, modes, frequency, input/output signals, sequential operational modes, and indicators, and alarm search loop of a Loran 'C' receiver, and teaches the student to perform systematic tests using test equipment, repair, alignment, adjustment, and calibration procedures on the equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics technology (9/77).

NV-1715-0900 SUBMARINE EMERGENCY COMMUNICATIONS TRANSMITTER (SECT) BUOY AN/BST-1 MAINTENANCE (SECT BUOY AN/BST-1 BASIC MAINTENANCE, CLASS F1) (AN/BST-1 SECT MAINTENANCE FOR SUBMARINE TECHNICIAN) 
Course Number: A-130-0144; L-101-0013.

Location: Submarine Training Center, Pearl Harbor, HI; Fleet Ballistic Missile Submarine Training Center, Charleston, SC; Submarine School, New London, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 2/75-Present.

Objectives: To provide training in maintenance and repair of special military equipment including antenna loops, pre-amps, flood detectors, RF units, IF units, power supplies.
and synchron units. Students learn to perform adjustments, fault isolation, signal trace, and to make repairs to the component level.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (9/77).

NV-1715-0904
DIGITAL FUNDAMENTALS, BASIC
(COURSE IN DIGITAL COMPUTER THEORY)
(COURSE IN DIGITAL FUNDAMENTALS, CLASS F1)
Course Number: A-100-0045; L-000-0058; F-000-0080.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Fleet Ballistic Missile Submarine Training Center, Charleston, SC.
Length: 3 weeks (90 hours).
Exhibit Dates: 6/76-Present.
Objectives: To provide an introduction to digital fundamentals, including number systems, Boolean algebra, logic conventions, combinational and sequential circuits, A/D and D/A conversions, digital logic families, and organization of a typical computer.

Institution: Course offers a study of binary, octal, duodecimal, BCD, and hexadecimal number systems. Includes conversions between number systems, binary arithmetic, complements, excess three, and negative number representation.

Boolean algebra, Veijch diagrams, graphical symbols, gates, flipflops, counters and registers. Topics include a study of the control unit, arithmetic unit, memory unit and I/O unit; E:0 detection and collection; analog-to-digital, digital-to-analog programming, programmable logic, digital logic families, and the organization of a general purpose computer.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics technology or computer technology (9/77).

NV-1715-0905
SPECIAL TECHNOLOGY I
Course Number: A-100-0046; L-000-0033.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 6 weeks (120-180 hours).
Exhibit Dates: 4/75-6/76.
Objectives: To provide the student working in communications with a thorough practical knowledge of basic electronics.

Institution: Course covers AC and DC circuits with vacuum tubes, amplifiers, and an introduction to solid-state devices; also covers structure of matter, physical aspects of resistors, inductors, and capacitors; Ohm’s and Kirchoff’s laws for DC series, parallel, and series-parallel circuits, DC bridge circuits, voltage dividers, reading schematic diagrams, use of a multimeter AC voltage generation and characteristics of a sine wave, ideal transformers; AL, AC and ALC series and parallel circuits with respect to current, voltage, power, Q, impedance and resonance, characteristics of tubes, tubes and their application to power supplies, multielement tubes, basic class A, B, AB, and C tube-type amplifiers and their frequency response, and introduction to solid-state theory, diodes, transistors, and their respective application to power supplies and amplifiers. After January 1976 course included arithmetic and an overall review of the course.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (9/77).

NV-1715-0906
SPECIAL TECHNOLOGY II
Course Number: A-100-0047; L-000-0034.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 4/75-6/76.
Objectives: To provide a practical course in basic electronics.

Institution: Topics covered include tubes, transistors, amplifiers, oscillators, modulations, transmitters, wave propagation, and power supplies, antennas, and troubleshooting procedures.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics engineering technology (9/77).

NV-1715-0907
SPECIAL TECHNOLOGY III
Course Number: A-100-0048; L-000-0035.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 2/75-Present.
Objectives: To provide the student working in communications with a thorough practical knowledge of basic radio receiver circuits.

Institution: Course is structured to be the apex of Special Technology I and II and is designed primarily for technicians working with radio frequencies. Principles of operation of a TRF, superheterydine, and single-sideband receivers are given, including the RF, IF, and audio amplifiers, detector circuits, oscillator circuits, and mixer circuits. The advantages and disadvantages of a TRF, superheterydine and single-sideband are explained. Understanding of schematic diagrams, signal flow, and troubleshooting procedures are given. Students use a VVTM, RF signal generator, and an oscilloscope in troubleshooting a superheterydine circuit.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (9/77).

NV-1715-0908
MISSILE TEST AND READINESS EQUIPMENT
(MTRE) Mk 3 MEASUREMENT, DISPLAY AND SIMULATION GROUPS ADVANCE TRAINING
(MTRE) Mk 3 MODS 4 AND 5 MEASUREMENT, DISPLAY AND SIMULATION GROUPS ADVANCED TRAINING
Course Number: A-121-0263.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 7/76-Present.
Objectives: To learn functional operations and to isolate faults and make repairs on special-purpose military equipment.

Institution: Course teaches the functional operation of special military equipment utilizing circuit and logic diagrams including control, logic, program sequence, sequential operations, alarms and displays, and to isolate faults, troubleshoot, repair, adjust and calibrate the equipment studied.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics technology (9/77).

NV-1715-0909
POLARIS A3 MISSILE ADVANCED TRAINING
Course Number: A-121-0261
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 1/75-Present.
Objectives: To study the theory of operation and fault isolation, and to make repairs on missile fire control systems.

Institution: Course offers a study of the functional operations and schematic analysis of a missile fire control system including its control, logic, sequential operation and teaches students to learn fault isolation and component replacement.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics technology (9/77).

NV-1715-0910
MISSILE LAUNCHER Mk 17 MOD 1 ADVANCED TRAINING, CLASS C1
Course Number: A-121-0271.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 7/74-Present.
Objectives: To study electrical, mechanical, pneumatic and hydraulic systems and to learn to troubleshoot and maintain special military equipment utilizing these components.

Institution: A study of deltamidifier systems, including heating and cooling, pneumatic relays and electronic monitoring equipment; theory and maintenance of high-pressure air, nitrogen, and hydraulic valve systems; electronic environmental monitoring equipment, including moisture and humidity detection; electrical control system utilizing relay logic; and fault isolation and repair of equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in electromechanical technology (9/77).

NV-1715-0911
POLARIS/POSEIDON RADIO NAVIGATION SET
AN/BRN3 RECEIVER ADVANCED TRAINING, CLASS F1
Course Number: A-193-0261.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI; Fleet Ballistic Missile Submarine Training Center, Charleston, SC; Submarine School, New London, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 1/75-Present.
Objectives: To provide knowledge and skills required for the corrective maintenance, fault isolation and repair of a navigation control console.
\textbf{Instruction:} Course offers classroom and laboratory time in advanced theory and corrective maintenance of a radio navigation receiver.

\textbf{Credit Recommendation:} No credit because of the limited specialized nature of the course (9/77).

**NV-1715-0912**

\textbf{SONAR RECEIVING SET AN/BQR-15 Mod 0 ADVANCED MAINTENANCE, CLASS F} (SONAR RECEIVING SET AN/BQR-15 Mod 0 OPERATOR AND MAINTENANCE)

\textbf{Course Number:} A-130-0125; F-130-0034.

\textbf{Location:} Submarine Training Center, Pacific, Pearl Harbor, HI; Submarine School, New London, CT; Fleet Ballistic Missile Submarine Training Center, Charleston, SC.

\textbf{Length:} 2 weeks (67 hours).

\textbf{Exhibit Dates:} 10/75-Present.

\textbf{Objectives:} To provide theory of operation and maintenance on the specific military equipment.

\textbf{Instruction:} Course includes the study of the theory of operation of specialized military equipment. Student learns to perform fault isolation, calibrate, and adjust the equipment.

\textbf{Credit Recommendation:} No credit because of the military-specific nature of the course (9/77).

**NV-1715-0913**

\textbf{LORAN AN/WRN-5 COMBINED MAINTENANCE (SATELLITE NAVIGATION SYSTEM AN/WRN-5)} (SATELLITE RECEIVER AN/WRN-5 COMBINED MAINTENANCE, CLASS C-1) (AN/WRN-5 COMBINED MAINTENANCE) (NAVIGATION SET OPERATION AND MAINTENANCE)

\textbf{Course Number:} A-193-0054.

\textbf{Location:} Submarine Training Center, Pacific, Pearl Harbor, HI; Submarine School, New London, CT.

\textbf{Length:} 2 weeks (60 hours).

\textbf{Exhibit Dates:} 1/75-Present.

\textbf{Objectives:} To provide theory of operation and maintenance of the AN/WRN-5 equipment.

\textbf{Instruction:} Course teaches theory and maintenance of the AN/WRN-5 equipment.

\textbf{Credit Recommendation:} In the vocational certificate category, 1 semester hour in electronics technology (9/77).

**NV-1715-0916**

\textbf{POLARIS/POSEIDON RADIO NAVIGATION SET AN/BRN-3, DATA PROCESSOR ADVANCED TRAINING, CLASS F} I

\textbf{Course Number:} A-193-0260.

\textbf{Location:} Submarine Training Center, Pacific, Pearl Harbor, HI; Fleet Ballistic Missile Submarine Training Center, Charleston, SC; Submarine School, New London, CT.

\textbf{Length:} 2 weeks (60 hours).

\textbf{Exhibit Dates:} 1/75-Present.

\textbf{Objectives:} Course offers a review of theory and maintenance procedures for radio navigation equipment.

\textbf{Instruction:} Course includes block diagram, study of receivers, computers, and peripheral equipment; also includes approximately 35 hours of alignment procedures for receivers, computers, data processors, and peripheral equipment. Remainder of course time is devoted to troubleshooting equipment.

\textbf{Credit Recommendation:} In the vocational certificate category, 1 semester hour in electronics technology (9/77).

**NV-1715-0917**

\textbf{SHIPS INERTIAL NAVIGATION SYSTEM (SINS) Mk 2 Mod 6 SELECTRIC TYPEWRITER CLASS F} I

\textbf{Course Number:} A-623-0039.

\textbf{Location:} Submarine Training Center, Pacific, Pearl Harbor, HI; Submarine School, Groton, CT; Fleet Ballistic Missile Submarine Training Center, Charleston, SC.

\textbf{Length:} 2 weeks (60 hours).

\textbf{Exhibit Dates:} 1/75-Present.

\textbf{Objectives:} To provide training in the theoretical and maintenance procedures for specific military equipment utilizing electronic, pneumatic and hydraulic components.

\textbf{Instruction:} Course presents a study of the theory of operation of a selectric typewriter and to teach fault isolation, adjustment, and repair of the equipment.

\textbf{Instruction:} Course teaches theory of operation of a selectric typewriter, including controls, switches, gears, cams, latches, linkages and springs. Students will perform fault isolation and make adjustments and repairs to the equipment.

\textbf{Credit Recommendation:} In the vocational certificate category, 2 semester hours in electromechanical technology (9/77).

**NV-1715-0918**

\textbf{4L16 OXYGEN GENERATOR ELECTRICAL TECHNICIAN}

\textbf{Course Number:} A-623-0039.

\textbf{Location:} Submarine Training Center, Pacific, Pearl Harbor, HI; Submarine School, Groton, CT; Fleet Ballistic Missile Submarine Training Center, Charleston, SC.

\textbf{Length:} 3 weeks (90 hours).

\textbf{Exhibit Dates:} 1/75-Present.

\textbf{Objectives:} To provide training in the electrical maintenance of an oxygen generator.

\textbf{Instruction:} Approximately one-third of the course provides instruction in power supplies, contact annunciators, magnetic amplifier annunciators, readout circuits, and pressure controller systems. The balance of the course is devoted to troubleshooting and calibration.

\textbf{Credit Recommendation:} In the vocational certificate category, 1 semester hour in electronics technology (9/77).

**NV-1715-0919**

\textbf{SHIPS INERTIAL NAVIGATION SYSTEM (SINS) Mk 2 Mods 1 and 4 THEORY AND MAINTENANCE}

\textbf{Course Number:} A-193-0249.

\textbf{Location:} Submarine Training Center, Pacific, Pearl Harbor, HI.

\textbf{Length:} 2 weeks (60 hours).

\textbf{Exhibit Dates:} 1/75-Present.

\textbf{Objectives:} To provide the theory of operation of specific military equipment and to enable the student to perform fault isolation on the equipment.

\textbf{Instruction:} Course offers a study of the theory of operation of specialized military equipment, with limited instruction on fault isolation and repair.

\textbf{Credit Recommendation:} No credit because of the military-specific nature of the course (9/77).

**NV-1715-0920**

\textbf{SHIPS INERTIAL NAVIGATION SYSTEM (SINS) Mk 2 Mods 1 and 4 THEORY AND MAINTENANCE II}

\textbf{Course Number:} A-193-0249.

\textbf{Location:} Submarine Training Center, Pacific, Pearl Harbor, HI.

\textbf{Length:} 2 weeks (60 hours).

\textbf{Exhibit Dates:} 1/75-Present.

\textbf{Objectives:} To study electrical, mechanical, pneumatic and hydraulic theory and to learn to troubleshoot and maintain special military equipment utilizing these components.

\textbf{Instruction:} Course presents a study of dehumidifier systems, including heating and cooling, pneumatic relays, and electronic monitoring equipment. Course includes theory of operation and maintenance of high-pressure air, nitrogen and hydraulic valve systems; electronic environmental monitoring equipment, including moisture and humidity detection; electrical control systems utilizing relay logic, and performance of fault isolation tests and repair of equipment.

\textbf{Credit Recommendation:} In the vocational certificate category, 2 semester hours in electromechanical technology (9/77).
VERDAN COMPUTER THEORY AND MAINTENANCE II
(VERDAN THEORY AND MAINTENANCE, CLASS F1)
Course Number: A-193-0291.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 1/75-Present.
Objectives: To teach the theory of operation of a special-purpose digital computer and performance of fault isolation and repair on the equipment.
Instruction: Course covers theory of operation of the I/O section of a digital computer including input and output logic and coding, I/O diagnostic tests, control panel switches and diagrams, keyboard, display, and typewriter buffer circuitry, and teaches performance of fault isolation and equipment repair. As conducted after 10/77 course includes functional description and operation of tape reader, including amplifiers, solenoid drivers, photodiode sensors and control signals.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics (9/77).

VERDAN COMPUTER THEORY AND MAINTENANCE I
(VERDAN THEORY AND MAINTENANCE, CLASS F1)
Course Number: A-193-0271.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 1/75-Present.
Objectives: To present the theory of operation of a digital data processing computer with tape reader/punch and to perform fault isolation and repair on the equipment.
Instruction: Course presents a study of digital data processing computer using block, logic, and schematic diagrams of the control and state counters, memory access, memory selection, and registers for shift, hold, add, increment, decrement, complement, merge, and extract operations, interface circuitry for the tape reader and tape punch, and perform fault isolation, mechanical adjustment, and repairs on the equipment.
Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics technology (9/77).

NAVY-1715-0926
NAVAL DATA AUTOMATED COMPUTER (NAVDAC) ADVANCED TRAINING
Course Number: A-193-0282.
Location: Submarine Training Center, Pacific, Pearl Harbor, HI.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/75-Present.
Objectives: To teach theory of operation and performance of fault isolation, and to teach repair on specialized military equipment.
Instruction: Course includes study of logic circuits and elements as they relate to timing, storage, control, input/output, arithmetic and power supplies for specific military equipment. Students will learn to perform fault analysis and make repairs on the equipment.
Credit Recommendation: In the vocational certificate category, 2 semester hours in electronics (9/77).
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management (2/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management (2/74).

NV-1717-0005
RA-5C MAINTENANCE SUPERVISORS
Course Number: C-000-3743; C-2A-3743.
Location: Air Maintenance Training Detachment, Albany, CA.
Length: 4 weeks (144 hours).
Exhibit Dates: 2/73-Present.
Objectives: To train senior enlisted personnel and branch officers in the operation and maintenance capabilities of the RA-5C weapons system.

Instruction: Lectures and practical exercises in the operation and mission capabilities of the RA-5C weapon system, including aircraft familiarity and safety, primary essential aircraft systems, electronic systems, structures and corrosion control, hydraulics, aircraft electrical and fire control, electronic countermeasures system, and reconnaissance systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in maintenance supervisor familiarization (6/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in maintenance supervisor familiarization (6/74).

NV-1717-0006
PROSPECTIVE ENGINEER OFFICERS
Course Number: K-4H-465.
Location: Fleet Training Center, San Diego, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 6/65-12/68.
Objectives: To train junior officers as prospective engineers and maintenance control officers on steam and diesel-powered ships.

Instruction: Lectures and practical exercises in the duties of an engineering department officer and a damage control officer. Courses include administration, boilers, auxiliaries, systems, propulsion machinery, electrical systems, bilge pumps, and equipment, fire fighting, damage control, and nuclear, biological, and chemical warfare defense.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in industrial management (7/74); in the upper-division baccalaureate category, 3 semester hours as an elective in industrial management (7/74).

NV-1717-0007
WAREHOUSE OPERATIONS MANAGEMENT
Course Number: A-8C-0015.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 10/71-Present.
Objectives: To train military and civilian personnel in military warehousing.

Instruction: Lectures and practical exercises in the study of warehousing and storage planning and practices; materials handling principles and utilization of equipment; automated materials handling systems; military packaging policies and the basic principles of unit projection and packing; including quantitative aspects of management; documentation and control; warehousing and storage; materials handling; preservation and packaging.

Credit Recommendation: No credit because of the military nature of the course (7/74).

NV-1717-0008
AVIATION MAINTENANCE CONTROL ADMINISTRATION
Course Number: C-000-3204.
Location: Air Maintenance Training Detachment, Whidbey Island, WA; Air Maintenance Training Detachment, North Island, CA; Air Maintenance Training Detachment, Alameda, CA; Air Maintenance Training Detachment, North Point, RI; Air Maintenance Training Detachment, Pensacola, FL; Air Maintenance Training Detachment, Norfolk, VA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training Detachment, Lemoore, CA.
Length: 2 weeks (80 hours).
Exhibit Dates: 8/71-Present.
Objectives: To train enlisted personnel in the administrative practices and procedures of aviation units.

Instruction: Lectures and practical exercises in the administrative practices and procedures of aviation units, including maintenance management, maintenance and production control, component repair program, maintenance data collection and reporting, aircraft accounting, ground support equipment, data reporting, aircraft engine accounting system, logs and records, and administrative procedures.

Credit Recommendation: In the vocational certificate category, 1 semester hour in organization and management (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in organization and management (7/74); in the upper-division baccalaureate category, 1 semester hour in organization and management (7/74).

NV-1717-0010
AVIATION ORDNANCEMAN, CLASS B
Course Number: C-646 2011.
Location: Air Technical Training Center, Jacksonville, FL.
Objectives: To train enlisted personnel to perform ordnance functions aboard ships.

Instruction: Lectures and practical exercises in administrative techniques, mathematics, physics, electricity, gunnery, mathematics, equipment, and missiles.

Credit Recommendation: Version 1: In the vocational certificate category, 3 semester hours in electronics technology (6/75); in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics technology and 2 in maintenance management (6/75). Version 2: In the vocational certificate category, 2 semester hours in electricity (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (12/68); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).

NV-1717-0011
NAVAL AIRCRAFT MAINTENANCE MANAGEMENT
Course Number: Not available.
Location: Naval Training Detachment, North Island, CA; Naval Training Detachment, Jacksonville, FL; Naval Training Detachment, Norfolk, VA; Naval Training Detachment, Quonset Point, RI; Naval Training Detachment, Pensacola, FL; Naval Training Detachment, Norfolk, VA; Naval Training Detachment, Whidbey Island, WA; Naval Training Detachment, Barbers Point, HI.
Length: 3 weeks (120 hours).
Objectives: To train enlisted personnel to manage aviation maintenance materiel.

Instruction: Lectures and practical exercises in maintenance materiel management, including management, control and security of classified information, naval aircraft maintenance program framework organization, administrative functions and procedures, maintenance and material control, quality control, maintenance data collection system, and maintenance equipment.

Credit Recommendation: In the vocational certificate category, 2 semester hours in maintenance management (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management (7/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).

NV-1717-0012
PARACHUTE RIDGER SCHOOL, CLASS B
Course Number: None.
Location: Air Technical Training Unit, Lakehurst, NJ.
Length: 12 weeks (496 hours).
Exhibit Dates: 1/66-6/68.
Objectives: To provide parachute riggers with administrative, theoretical, and practical backgrounds for operating squadrons.

Instruction: Lectures and practical exercises in supervision and management; aircraft maintenance skills; sewing machine adjustments and repairs; liquid oxygen and oxygen regulators; and pressure suits and components.

Credit Recommendation: In the vocational certificate category, 2 semester hours in maintenance management, 1 in sewing and sewing machine adjustments and repairs, 1 in liquid oxygen and regulators, and 2 in pressure suits (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management (5/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).
LEADERSHIP AND MANAGEMENT FOR OFFICERS (LMT)

Course Number: A-7C-0018; A-500-0031

Location: Various Naval Training Centers, USA

Length: 2 weeks (80 hours)

Exhibit Dates: 4/75-Present

Objectives: To provide officers and petty officers with the latest and most pertinent information on leadership, management, technical skills, and applications for applying the Navy's Human Goals Plan.

Instruction: In the basic theory of leadership as applied to nuclear support ships and shore facilities. Course includes basic mathematics, slide rule use, radiological controls, and testing of samples for radiation.

Credit Recommendation: No credit because of the specialized nature of the course (3/76).

NOISE AND VIBRATION MEASUREMENT

Course Number: L-210-015

Location: Submarine School Training Facility, Pearl Harbor, HI.

Length: 17 weeks (540 hours)

Exhibit Dates: 12/67-Present

Objectives: To train enlisted personnel to operate sound- and vibration-monitoring equipment.

Instruction: Lectures and practical exercises in the operation of sound- and vibration-monitoring equipment, including sound and vibration theory, general radio equipment, as well as vibration survey techniques and data analysis. In-place balance theory, vibration isolation, data acquisition, and equipment maintenance.

Credit Recommendation: In the vocational certificate category, 3 semester hours in mechanical technology (sound and vibration) (5/74).

NOISE AND VIBRATION MEASUREMENT

Course Number: A-670-0010

Location: Service Schools Command, Great Lakes, IL.

Length: 17 weeks (546 hours)

Exhibit Dates: 11/70-Present

Objectives: To train enlisted personnel to operate sound- and vibration-monitoring equipment.

Instruction: Lectures and practical exercises in the operation of sound- and vibration-monitoring equipment, including sound and vibration theory, general radio equipment, as well as vibration survey techniques and data analysis. In-place balance theory, vibration isolation, data acquisition, and equipment maintenance.

Credit Recommendation: In the vocational certificate category, 2 semester hours in sound and vibration (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in mechanical technology laboratory (sound and vibration) (5/74).

NOISE AND VIBRATION MEASUREMENT

Course Number: A-77-0000

Location: Great Lakes, IL.

Length: 16 weeks (480 hours)

Exhibit Dates: 6/70-Present

Objectives: To train enlisted personnel to perform as watch and clock repairmen.

Instruction: Lectures and practical exercises in the lubrication, cleaning, disassembly, reassembly, and testing of clocks, watches, anemometers, and mercurol barometers, and dial instruments, including use of watchmaker's tools (pivot drill and plug, balance staff, jeweling, winding stem and click springs) and repositioning of wheel.

Credit Recommendation: In the vocational certificate category, 15 semester hours in horology or watch and clock making (6/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in horology or watch and clock making (6/74); in the upper-division baccalaureate category, 3 semester hours in horology or watch and clock making (6/74).

WATCH AND CLOCK REPAIR, CLASS C

(INTERFACE WITH WATeR REPAIR)

Course Number: A-670-0011

Location: Service Schools Command, Great Lakes, IL.

Length: 16 weeks (480 hours)

Exhibit Dates: 6/70-Present

Objectives: To train enlisted personnel to perform as watch and clock repairmen.

Instruction: Lectures and practical exercises in the lubrication, cleaning, disassembly, reassembly, and testing of clocks, watches, anemometers, and mercurol barometers, and dial instruments, including use of watchmaker's tools (pivot drill and plug, balance staff, jeweling, winding stem and click springs) and repositioning of wheel.

Credit Recommendation: In the vocational certificate category, 15 semester hours in horology or watch and clock making (6/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in horology or watch and clock making (6/74); in the upper-division baccalaureate category, 3 semester hours in horology or watch and clock making (6/74).
Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).

Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).

Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).

Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).

Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).

Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).

Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).

Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).

Credit Recommendation: Group A: In the vocational certificate category, 12 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 8 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group B: In the vocational certificate category, 4 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 4 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75). Group C: In the vocational certificate category, 5 semester hours in weather equipment maintenance or instrument repair (6/75); in the lower-division baccalaureate/associate degree category, 5 semester hours in instrumentation, electrical laboratory, and/or electronic laboratory (6/75).
Objective: To provide nonrated naval personnel with the skills of the general boatswain's mate rating.

Instruction: Lectures and practical exercises on the responsibilities of the general boatswain's mate rating, including duties, manila rope splicing, handling, painting, and equipment, honors and ceremonies, aids to navigation, weather, rules of the road, boat seamanship, visual signals, life saving equipment, winch davits, booms and rigging, cargo-handling equipment, and replenishment at sea.

Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-1722-0009

SWIFT BOAT CREW TRAINING

Course Number: H-000-5324; H-000-5324.

Location: Amphibious School, Coronado, CA.

Length: 9 weeks (260 hours).


Objectives: To prepare personnel for duty as Swift boat crewmen.

Instruction: Lectures and practical exercises in survival swimming, maps and charts, navigation, radio operation, communications, electronics, engine operation, boat electrical systems, and maintenance.

Credit Recommendation: No credit because of the military nature of the course (7/74).

NV-1723-0003

MOLDERS, CLASS B

Course Number: A-790-0011.

Location: Development and Training Center, San Diego, CA.

Length: 12 weeks (360 hours).

Exhibit Dates: 2/65-Present.

Objectives: To train enlisted personnel to identify and test ferrous and nonferrous casting metals, identify and use melting equipment, prepare molds, and cast various ferrous and nonferrous metals.

Instruction: Lectures and practical exercises in preparing molds and casting metals. Topics include mechanical drawings, mathematics, and foundry calculations, mold construction, melting equipment, leadership skills, casting-metal metallurgy, identification and testing of metal castings; nonferrous alloy casting technology, and foundry management.

Credit Recommendation: No credit because of the military nature of the course (7/74).
NV-1723-0005

SHIPITERS HULL MAINTENANCE TECHNICIAN, CLASS A, PHASE 2

Course Number: A-700-0010.
Location: Construction Training Center, Golport, MS; Construction School, Davisville, RI.
Length: 14-15 weeks (420-454 hours).
Exhibit Dates: 9/63-6/64.

Objectives: To train personnel to perform as steelworkers with construction battalions.

Instruction: Lectures and practical exercises in the techniques of control and supervision of the materials and tools used in the planning and erection of steel structures, including foremanship, applied mathematics, metal working, oxyacetylene welding, inert-gas welding, and shipboard steel erection.

Credit Recommendation: In the vocational certificate category, 8 semester hours in construction and advanced steelwork (5/74).

NV-1723-0006

SHIPITERS, CLASS A (METALSMITH)

Course Number: Not available.
Location: Training Center, San Diego, CA.
Length: 12 weeks (360 hours).
Exhibit Dates: 5/63-12/68.

Objectives: To train enlisted personnel to be metalsmiths.

Instruction: Lectures and practical exercises in sheet metalwork, including basic shop responsibilities, mechanics, blueprint reading and symbols, tools and materials, sheet metal design, welding, brazing and soldering, coppermithing, and basic metalworking.

Credit Recommendation: In the vocational certificate category, 8 semester hours in sheet metal work and piping (5/74).

NV-1723-0007

STEELWORKER/SHEETMETAL, CLASS C

Course Number: A-701-0011.
Location: Technical Training Command, San Diego, CA.
Length: 12 weeks (360 hours).
Exhibit Dates: 7/63-1/64.

Objectives: To train petty officers to perform as sheet metal technicians.

Instruction: Lectures and practical exercises in sheet metal work and blueprint reading and estimating, including mechanics, blueprint reading, planning, and estimating sheet metal patterns, sheet metal tools and equipment, soldering, sheet metal fabrication and installation, material requisitioning, pattern layout, and duties and responsibilities of the supervisor.

Credit Recommendation: In the vocational certificate category, 4 semester hours in sheet metal (5/74).

NV-1723-0008

STEELWORKER, CLASS J (SWC")

Course Number: A-711-0018.

Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS; Construction School, Davisville, RI.
Length: 14-15 weeks (420-454 hours).
Exhibit Dates: 9/63-6/64.

Objectives: To train personnel to perform as steelworkers with construction battalions.

Instruction: Lectures and practical exercises in the techniques of control and supervision of the materials and tools used in the planning and erection of steel structures, including foremanship, applied mathematics, metal working, oxyacetylene welding, inert-gas welding, and steel erection.

Credit Recommendation: In the vocational certificate category, 9 semester hours, in construction and advanced steelwork (7/76).

NV-1723-0009

STEELWORKERS, CLASS A

Course Number: A-711-0015.
Location: Construction Training Center, Gulfport, MS; Construction Training Center, Port Hueneme, CA.
Length: 35 weeks (1050 hours).
Exhibit Dates: 7/75-7/76.

Objectives: To train enlisted personnel to be steelworkers.

Instruction: Version 1: Lectures and practical exercises in the erection of steel structures, including basic shop mathematics, blueprint reading and sketching, sheet metal layout, template working, and welding. Version 2: Topics also include steel erection and rigging.

Credit Recommendation: In the vocational certificate category, 5 semester hours in construction, basic steelworker (7/76). Version 2: In the vocational certificate category, 6 semester hours in construction, basic steelworker (5/74).

NV-1723-0011

MACHINERY REPAIRMEN, CLASS B

Course Number: A-702-0020.
Location: Technical Training Command, San Diego, CA.
Length: 17 weeks (510 hours).
Exhibit Dates: 11/64-6/65.

Objectives: To train personnel to serve as machinery repairmen.

Instruction: Lectures and practical exercises in machinery repair. Course includes shop mathematics, interpretation of drawings of machinery tool operations on the toolmaker's lathe; turret lathe; surface, tool and universal cylindrical grinders; milling machines and rapid, plane, angular, and differential indexing; the generation and manufacture of spur, helical, bevel and worm gears, and symmetrical and nonsymmetrical forms; metal spraying; physical metallurgy and plastics; and advanced precision measuring instruments.

Credit Recommendation: Version 1: In the vocational certificate category, 10 semester hours in machinery repairmen (5/74); in the lower-division baccalaureate/associate-degree category, 4 semester hours in physical metallurgy, 4 in heat treating (5/74); in the upper-division baccalaureate category, 4 semester hours in physical metallurgy, 4 in heat treating (5/74).

NV-1724-0001

HEAT TREATMENT OF METALS, CLASS C

Course Number: A-702-0021.
Location: Service Schools Command, San Diego, CA.
Length: 7 weeks (234 hours).
Exhibit Dates: 10/63-6/66.

Objectives: To train personnel as heat treatment specialists.

Instruction: Lectures and practical exercises in the heat treatment of metals, including properties of metals, metal alloy systems, identification and classification of metals, corrosion and surface treatment, and maintenance and material management.

Credit Recommendation: In the vocational certificate category, 4 semester hours in physical metallurgy, 4 in heat treating (5/74); in the lower-division baccalaureate/associate-degree category, 4 semester hours in physical metallurgy, 4 in heat treating (5/74); in the upper-division baccalaureate category, 4 semester hours in physical metallurgy, 4 in heat treating (5/74).

NV-1724-0002

NONDESTRUCTIVE TESTING OF METALS

Course Number: A-701-017.
Location: Welding School, Class C, San Diego, CA.
Length: 14-19 weeks (420-465 hours).

Objectives: To train personnel in the nondestructive testing of metals.

Instruction: Lectures and practical exercises in Atomic Energy Commission rules.
and regulations pertaining to radiography and the safe handling of radioactive by-product material, and the fundamentals of radiography, including: NDT-related inspections and mathematics, fundamentals of radiation as applied to industrial radiography; radiation control, detection, and measurement; particulate and liquid penetrant testing; ultrasonic testing; and radiographic inspection.

Credit Recommendation: In the vocational certificate category, 4 semester hours in metals testing on the basis of institutional examination (5/74).

NV-1726-0001
SHIP SERVICEMAN/CLASS C/SHIPBOARD BAKER
Course Number: A-840-00-12, A-840-00-13.
Location: Version 1: Service Schools Command, San Diego, CA. Including Version 2: Fleet Training Center, Norfolk, VA.
Length: 4 weeks (140 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train personnel to perform as bakers.
Instruction: Lectures and practical exercises in the organization and management of baker shop operations, including use and maintenance of baker shop equipment, hair cutting, barber tools and equipment, management and operation, skin diseases and prevention, hygiene and grooming, and neck shaving.
Credit Recommendation: In the vocational certificate category, 4 semester hours in barbering (6/74).

NV-1728-0001
COUNTERINSURGENCY TRAINING
Course Number: G-00-6250; G-000-6250.
Location: Naval Amphibious School, Coronado, San Diego, CA.
Length: 4 weeks (205 hours).
Exhibit Dates: 4/66-Present.
Objectives: To train and prepare naval officers and enlisted personnel for duty in countries subject to insurgency warfare.
Instruction: Presents a geopolitical orientation to a country under wartime conditions, and prepares the individual to survive hostile conditions.
Instruction: Fundamentals of insurgency warfare; counterinsurgency; weapons; techniques of survival, evasion, resistance, and escape.
Credit Recommendation: No credit because of the military-specific nature of the course (11/73).

NV-1728-0002
NAVAL INTERNAL SECURITY FORCE TRAINING
Course Number: H-00-5240; H-000-5240.
Location: Naval Amphibious School, Coronado, San Diego, CA.
Length: 4 weeks (97 hours).

Objectives: To provide training in internal security and counterinsurgency operations, and to provide an basic geopolitical orientation to a specific foreign country.
Instruction: History of insurgent movements; fundamentals of counterinsurgency; communist ideology, organization and goals; general principles of guerrilla and counterinsurgency operations; naval tactics and techniques which have application in combating insurgent movements; general principles of psychological operations and civil affairs; area psychological orientation; intelligence and counterintelligence orientation; voice communication procedure; and internal security. Instruction further acquaints student with basic techniques of personal and physical security and qualifies him in areas of physical fitness, marksmanship, and communications skills.
Credit Recommendation: In the vocational certificate category, 1 semester hour in criminal justice (11/73).

NV-1728-0003
COUNTERINSURGENCY PRE-DEPLOYMENT
Course Number: H-000-5221; H-000-5221.
Location: Naval Amphibious School, Coronado, San Diego, CA.
Length: 13 weeks (508 hours).
Exhibit Dates: 5/68-Present.
Objectives: To provide maximum training in internal defense, internal development and insurgency/counterinsurgency to Navy officers and personnel on duty in an advisory capacity or in a billet which will require close operational contact with the indigenous population in a Pacific Ocean Area country where subservient aggression is the recipient or instigator.
Instruction: Ideologies: theory and application; area studies; insurgency and counterinsurgency; psychological operations; intelligence and antiguerrilla warfare; guerrilla and counterinsurgent warfare; communications; engineering; medical; weapons training; field tactics; survival, evasion, resistance to interrogation, and escape technique.
Credit Recommendation: In the upper division baccalaureate category, 3 semester hours in counterinsurgency (5/74).

NV-1728-0004
FIRE FIGHTER INSTRUCTOR COURSE
(FIREFIGHTING INSTRUCTOR)
Course Number: A-780-0024; A-780-0025.
Location: Damage Control Training Center, Philadelphia, PA. Damage Control Training Center, Treasure Island, CA.
Length: 12-14 weeks (128-140 hours).
Exhibit Dates: 1/74-Present.
Objectives: To prepare enlisted personnel as instructors of fire fighters.
Instruction: Lectures and practical exercises in the use and care of fire-fighting equipment, fire-fighting techniques, lesson planning, and instructing.
Credit Recommendation: In the vocational certificate category, 4 semester hours in fire fighting (1/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in fire fighting (1/74).

NV-1728-0005
AVIATION BOATSWAIN'S MATE F (FUELS)
Course Number: None.
Location: Naval Air Technical Training Center, Lakehurst, NJ.
Exhibit Dates: 1/70-Present.
Exhibit Dates: 1/46-Present.
Objectives: To train enlisted personnel in the specialized techniques of ship firefighting.
Instruction: Lectures and practical experiences in safety, survival, and fire-fighting procedures, naval and volatile liquid types, inspection and maintenance of transfer systems and shore based refuelers and service unit systems.
Credit Recommendation: No credit because of the military nature of the course (3/74).

NV-1728-0006
AVIATION CRASH CREWMAN CLASS C
Course Number: G-780-2010.
Location: Air Technical Training Center, Memphis, TN.
Length: 4 weeks (160 hours).
Exhibit Dates: 7/64-Present.
Objectives: To train enlisted personnel who have backgrounds in aviation fundamentals to perform as aviation crash crewmen.
Instruction: Lectures and practical exercises in the functions of aviation crash crewmen, including theory of fire and fire extinguishing, aircraft familiarization, mobile fire-fighting equipment, and crash rescue and fire-fighting techniques.
Credit Recommendation: In the vocational certificate category, 3 semester hours in fire fighting (5/74).

NV-1728-0007
SAFETY INSPECTOR CLASS C
Course Number: None.
Location: Naval Schools Command, Fort Hueneke, CA; Naval Schools Command, Davisonette, PA; Naval Schools Command, Gulfport, MS.
Length: 3 weeks (94 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train enlisted personnel to be safety inspectors in construction battalions.
Instruction: Lectures and practical exercises in naval safety programs and chain of command, safety administrative procedures, safety section organization and functions, transportation and construction equipment safety, power tools and hand tools safety, utilities construction and electrical safety, and steelworker and builder safety.
Credit Recommendation: In the vocational certificate category, 2 semester hours in safety inspection (5/74).

NV-1728-0009
NBC DEFENSE FOR PETTY OFFICERS
Course Number: A-780-0016.
Location: Naval Schools Command, Philadelphia, PA; Naval Schools Command, San Francisco, CA.
Length: 2 weeks.
Exhibit Dates: 1/72-Present.
Objectives: To train personnel in damage control.
Instruction: Lectures and practical exercises in damage control, including damage control organization, access closures and fittings, general degrees and material conditions of readiness, shipboard systems, damage control equipment and equipment, oxygen breathing apparatus, portable pumping equipment, plastic repairs, entering sealed compartments, investigation of damage, and planned maintenance system.
Credit Recommendation: Insufficient data for evaluation (5/74).

NV-1728-0011
DAMAGE CONTROL ASSISTANT
Course Number: A-4G-0011; A-4G-0010.
Location: Naval Control Training Center, San Francisco, CA; Naval Control Training Center, Philadelphia, PA.
Length: 9 weeks (266 hours).
Exhibit Dates: 7/71-Present.
Objectives: To train officers to be damage control officers.
Instruction: Lectures in fire prevention and fire-fighting techniques, including extinguishing random fires, shipboard fire prevention, research and development of fire-fighting equipment, operation of oxygen breathing apparatus and other fire-fighting equipment; practical damage control, including underwater damage repair, plumbing and patching, ship systems, operation and repair procedures, and damage control battle organization; and nuclear, biological, and chemical warfare defense operations.
Credit Recommendation: In the vocational certificate category, 3 semester hours in ships engineering; in fire prevention (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in ships engineering; in fire prevention (5/74); in the upper-division baccalaureate category, 3 semester hours in ships engineering (5/74).

NV-1728-0012
DAMAGE CONTROL MEN CLASS A HT-A PHASE I
Course Number: A-780-0035; A-780-0036.
Location: Damage Control Training Center, Philadelphia, PA; Damage Control Training Center, Treasure Island, CA.
Length: 7-8 weeks (240 hours).
Exhibit Dates: 7/70-Present.
Objectives: To train enlisted personnel in damage control techniques.
Instruction: Lectures and practical exercises in hull and hull systems, casualty control, fuming, hull and pipe patching, plastic repairs, fire fighting, basic nuclear physics, charisma, electrical and troubleshooting, replenishment and detection of biological and chemical agents, shipboard decontamination, use and care of oxygen breathing equipment.
Credit Recommendation: In the vocational certificate category, 1 semester hour in fire fighting, 3 in damage control (5/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in fire fighting, 3 in damage control (5/74).

NV-1728-0013
AVIATION BOATSWAIN’S MATE U (UTILITY) CLASS A
Course Number: Not available.
Location: Air Material Center, Philadelphia, PA.
Length: 9 weeks (360 hours).
Exhibit Dates: 5/7-2/58.
Objectives: To train boatswain’s mates in the use and maintenance of aviation catapults and arresting gear.
Instruction: Lectures and practical exercises on use and maintenance of catapults and arresting gear, including management, rope socking, smoke, fire-fighting equipment, operation of oxygen breathing apparatus, and other fire-fighting equipment; practical damage control, including underwater damage repair, plumbing and patching, ship systems, operation and repair procedures, and damage control battle organization; and nuclear, biological, and chemical warfare defense operations.
Credit Recommendation: No credit because of the military nature of the course (4/74).

NV-1728-0014
AVIATION BOATSWAIN’S MATE H (AIRCRAFT HANDLING) CLASS A
(AVIATION BOATSWAIN’S MATE H (HANDLING) CLASS A)
Course Number: C-822-2010.
Location: Air Technical Training Center, Philadelphia, PA; Air Technical Training Center, Lakehurst, NJ.
Length: 7-8 weeks (280 hours).
Exhibit Dates: 6/65-Present.
Objectives: To train enlisted personnel as aviation boatswain mates.
Instruction: Lectures and practical exercises on aircraft carrier fire fighting, aircraft handling equipment maintenance, and spotting and handling of aircraft, including aircraft arresting gear, aircraft fire-fighting equipment, aircraft familiarization and handling, aircraft carrier fire-fighting and personnel rescue, aircraft crash fire-fighting procedures and techniques, aircraft crash fire-fighting equipment ashore, and crash fire and rescue drills.
Credit Recommendation: In the vocational certificate category, 4 semester hours in fire prevention (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in fire science (5/74); in the upper-division baccalaureate category, 2 semester hours in industrial safety and security (6/74).

NV-1728-0015
MILITARY JUSTICE NON-LAWYER
Course Number: A-5F-0014.
Location: Naval Justice School, Newport, RI.
Length: 5 weeks (120 hours).
Objectives: To train commissioned officers to act as paralegal professionals.
Instruction: Lectures and practical exercises in the duties and skills necessary to act as a paralegal professional in legal and court situations. Course includes court procedures; an in-depth study of criminal, civil, and military law; prosecution and judgemental services; and legal advising.
Credit Recommendation: Version 1: In the upper-division baccalaureate category, 2 semester hours in political science (12/88).

NV-1728-0016
MILITARY JUSTICE (LAWYER)
Course Number: A-5F-0001; A-5F-0002.
Location: Naval Justice School, Newport, RI.
Length: 10 weeks (400 hours).
Exhibit Dates: 7/72-Present.
Objectives: To provide lawyers with a basic orientation to military and administrative law.
Instruction: Instruction includes lectures in military and administrative law, criminal procedure, military crimes and rules of evidence, moot court exercises; and trial clinic and administrative proceedings. Students are required to do some library research.
Credit Recommendation: No undergraduate credit because of the professional nature of the course (6/75).

NV-1728-0017
MILITARY JUSTICE (OFFICERS)
Course Number: K-00-2044; K-00-060.
Location: Fleet Training Center, San Diego, CA.
Length: 3 weeks (90 hours).
Exhibit Dates: 2/71-Present.
Objectives: To prepare personnel to perform the duties of a legal officer.
Instruction: Instruction provides the student with an overview of military justice, including court martial procedure, laws of evidence, court martial punishments, and search and seizure.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hours in evidence or criminal investigation (6/75).

NV-1729-0001
FOOD SERVICES AND DISBURSING
Course Number: None.
Location: Naval Supply Center, Oakland, CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 10/71-Present.
Objectives: To acquaint experienced supply officers with new developments and procedures in food service management.
Instruction: New developments in food service management; review and reinforcement of food service disbursing management functions.
Credit Recommendation: No credit because of the limited technical nature of the course (12/73).

NV-1729-0002
COMMISSARIAN-STEWARD MANAGEMENT PRINCIPLES, CLASS C
Course Number: A-800-0014; A-800-0015.
Location: Naval School, San Diego, CA.
Length: 9 weeks.
Exhibit Dates: 9/71-Present.
Objectives: To provide students with advanced technical knowledge and skills in food services and supervision.
Instruction: Management and administration principles; organization and personnel management, technical aspects; sanitation and nutrition.
Credit Recommendation: In the lower-division baccalaureate/associate degree
I-272 COURSE EXHIBITS

category, 6 semester hours in food service management (12/73); in the upper-division baccalaureate restaurant hospitality, 6 semester hours in food service management (12/73).

NV-1729-0003

COMMISSARYMAN STEWARD, CLASS C

Course Number: None.
Location: Naval School, San Diego, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train petty officers and sailors in food service practices.

Instruction: Lectures and discussions on food purchasing, menu preparation, and food service management.

Credit Recommendation: In the vocational certificate category, 6 semester hours in hotel-restaurant institutions (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in hotel-restaurant institutions (12/73); in the upper-division baccalaureate category, 6 semester hours in hotel-restaurant institutions (12/73).

NV-1729-0004

COMMISSARYMAN STEWARD, CLASS A (COMMISSARYMAN CLASS A)

Course Number: None.
Location: Naval School, Newport, RI; Naval School, San Diego, CA.
Length: 8 weeks (240 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train petty officers and sailors in food service practices.

Instruction: Lectures and discussions on food purchasing, menu preparation, and food service management.

Credit Recommendation: In the vocational certificate category, 6 semester hours in hotel-restaurant institutions (12/73); in the lower-division baccalaureate/associate degree category, 6 semester hours in hotel-restaurant institutions (12/73); in the upper-division baccalaureate category, 6 semester hours in hotel-restaurant institutions (12/73).

NV-1729-0005

STEWARDS, CLASS A

Course Number: None.
Location: Naval School, San Diego, CA.
Length: 6-7 weeks (180-210 hours).
Exhibit Dates: 9/62-12/68.
Objectives: To train petty officers and sailors in food service practices.

Instruction: Lectures and discussions on food purchasing, menu preparation, and food service management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in hotel-restaurant institutions (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel-restaurant institutions (12/73); in the upper-division baccalaureate category, 3 semester hours in hotel-restaurant institutions (12/73).

NV-1729-0006

COMMISSARYMEN, CLASS B

Course Number: None.
Location: Naval School, San Diego, CA.
Length: 15 weeks (450 hours).
Exhibit Dates: 4/68-12/68.
Objectives: To provide food service personnel for supervisory and advanced technical duties.

Instruction: Lectures and discussions on food purchasing, menu preparation, and food service management.

Credit Recommendation: In the vocational certificate category, 5 semester hours in hotel-restaurant institutions (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in hotel-restaurant institutions (12/73); in the upper-division baccalaureate category, 3 semester hours in hotel-restaurant institutions (12/73).

NV-1729-0007

STEWARD APPRENTICE, CLASS P (CLASS P STEWARD'S APPRENTICE)

Course Number: None.
Length: 6 weeks (103 hours).
Exhibit Dates: 3/56-12/68.
Objectives: To train petty officers in dining room preparation and individual food service practices.

Instruction: Lectures and practical exercises in dining room preparation and individual food service practices.

Credit Recommendation: In the vocational certificate category, 6 semester hours in catering or food service (6/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in catering or food service (6/74); in the upper-division baccalaureate category, 3 semester hours in institutional management (12/68).

NV-1730-0001

BASIC REFRIGERATION THEORY AND MAINTENANCE

Course Number: A-652-021.
Location: Fleet Submarine Training Facility, Pearl Harbor, HI.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train petty officers to operate, test, and repair refrigeration systems.

Instruction: Lectures and practical exercises in basic refrigeration theory and maintenance. Course includes the theory of operation of the vapor-compression refrigeration system; a study of system components; and practice in troubleshooting, servicing, and maintaining small refrigeration systems.

Credit Recommendation: In the vocational certificate category, 2 semester hours in refrigeration maintenance (12/74).

NV-1730-0002

AUXILIARY EQUIPMENT PACKAGE

Course Number: A-652-0043; A-652-0044.
Location: Version 1: Submarine School, Groton, CT. Version 2: Submarine Training Center, Pearl Harbor, HI.
Length: 10 weeks (318 hours).
NV-1730-0003

SUBMARINE REFRIGERATION AND AIR CONDITIONING R-12

Course Number: F-652-014.
Location: Submarine School, Groton, CT.
Length: 2 weeks (60 hours).
Exhibit Dates: 3/68-Present.
Objectives: To train enlisted personnel to maintain and service large refrigeration systems.
Instruction: Lectures and practical exercises in the maintenance of large refrigeration units. Topics include system components, troubleshooting, and the general construction, operation, and servicing of large refrigeration systems employing reciprocating compressors.
Credit Recommendation: In the vocational certificate category, 2 semester hours in mechanical servicing of refrigeration systems (5/74).

NV-1730-0004

SUBMARINE (SSN/SSBN) AUXILIARY MACHINERY OPERATION AND MAINTENANCE

Course Number: F-652-010.
Location: Fleet Training Group, Pearl Harbor, HI; Submarine School, Groton, CT; Mine Warfare Training Center, Charleston, SC.
Length: 10 weeks (300 hours).
Exhibit Dates: 8/70-Present.
Objectives: To train enlisted personnel to maintain and service refrigeration systems containing reciprocating or centrifugal compressors, and lithium-bromide absorption units.
Instruction: Lectures and practical exercises in the maintenance and operation of refrigeration systems. Course includes the mechanical aspects of the construction and operation of refrigeration systems employing reciprocating or centrifugal compressors, lithium-bromide absorption systems, hydraulic systems, and air compressors. Instruction emphasizes system components, troubleshooting, and service procedures.
Credit Recommendation: In the vocational certificate category, 6 semester hours in mechanical servicing of refrigeration systems (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in refrigeration laboratory (7/74).

NV-1732-0001

STEAM GENERATING PLANT INSPECTOR

Course Number: A-651-0030; A-651-022.
Location: Newport, RI.
Length: 4 weeks (120 hours).
Exhibit Dates: 12/69-Present.
Objectives: To train enlisted personnel to perform as steam generating plant inspectors.
Instruction: Lectures and practical exercises on steam generating plants, including salient design features of naval boilers, tube ruptures and renewal, casing and foundation, pressure parts not exposed to firesides, hydro tests, safety valves, boiler inspection, boiler chemistry, and steam generator performance during steady load.
Credit Recommendation: In the vocational certificate category, 3 semester hours in boiler operation (5/74).

NV-1732-0002

BASIC NUCLEAR POWER

Course Number: Not available.
Location: Submarine School, Mare Island, CA; Submarine School, New London, CT; Submarine School, Bainbridge, MD.
Length: 22 weeks (555-650 hours).
Exhibit Dates: 7/56-Present.
Objectives: To train officers in nuclear reactor engineering or in nuclear reactor power plant systems.
Instruction: Lectures and practical exercises in advanced mathematics, atomic and nuclear physics, reactor engineering, automotive mechanisms, reactor and power plant control theory, metallurgy, thermodynamics, nuclear power plant systems and components, reactor control systems and components, and health physics. Note: When this course was established in the mid-1950's, the office was able to obtain the curriculum outline from the Department of the Navy and have it evaluated. The recommendation for the program as it was given until 1961 is provided below. However, by 1961, the course was changed and the curriculum appeared to have been substantially strengthened, although the course materials were classified for security reasons and could not be evaluated. Nevertheless, the course as it has been offered since 1961 is considered to be academically stronger than the earlier program. Inasmuch as the credit listed below is recommended for the course as given prior to 1961, institutions would be justified in granting that amount of credit plus additional credit determined by institutional evaluation.
Credit Recommendation: In the vocational certificate category, 2 semester hours in nuclear power plant operation (see Note above) (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in nuclear engineering technology (see Note above) (5/74); in the upper-division baccalaureate category, 3 semester hours in introductory atomic physics or nuclear technology (see Note above) (12/68).

NV-1732-0003

ADVANCED NUCLEAR POWER

Course Number: Not available.
Location: Submarine School, Mare Island, CA; Submarine School, New London, CT; Submarine School, Bainbridge, MD.
Length: 2 weeks (300 hours).
Exhibit Dates: 7/56-Present.
Objectives: To train officers in nuclear reactor engineering or in nuclear reactor power plant systems.
Instruction: Lectures and practical exercises in advanced mathematics, atomic and nuclear physics, reactor engineering, automotive mechanisms, reactor and power plant control theory, metallurgy, thermodynamics, nuclear power plant systems and components, reactor control systems and components, and health physics. Note: When this course was established in the mid-1950's, the office was able to obtain the curriculum outline from the Department of the Navy and have it evaluated. The recommendation for the program as it was given until 1961 is provided below. However, by 1961, the course was changed and the curriculum appeared to have been substantially strengthened, although the course materials were classified for security reasons and could not be evaluated. Nevertheless, the course as it has been offered since 1961 is considered to be academically stronger than the earlier program. Inasmuch as the credit listed below is recommended for the course as given prior to 1961, institutions would be justified in granting that amount of credit plus additional credit determined by institutional evaluation.
Credit Recommendation: In the vocational certificate category, 2 semester hours in nuclear power plant operation (see Note above) (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in nuclear engineering technology (see Note above) (5/74); in the upper-division baccalaureate category, 3 semester hours in introductory atomic physics or nuclear technology (see Note above) (12/68).

Credit Recommendation: In the vocational certificate category, 2 semester hours in nuclear power plant operation (see Note above) (5/74); in the lower-division baccalaureate/associate degree category, 6 semester hours in nuclear engineering technology (see Note above) (5/74); in the upper-division baccalaureate category, 3 semester hours in introductory atomic physics or nuclear technology (see Note above) (12/68).
COURSE EXHIBITS

Credit Recommendation: In the vocational certificate category, 8 semester hours in nuclear power plant operation (see Note above) (5/74); in the lower-division baccalaureate/associate degree category, 8 semester hours in nuclear engineering technology (see Note above) (5/74); in the upper-division baccalaureate category, 3 semester hours in reactor engineering (see Note above) (12/68).

NV-1732-0005
DATC MACHINER'S MATE MAINTENANCE
(600 PSI MM MAINTENANCE)

Course Number: A-651-0024.
Location: Training Center San Diego, CA.
Length: 3 weeks (105 hours),
Exhibit Dates: 11/72-Present.
Objectives: To train machinist's mates and boilermen in the maintenance and repair of main propulsion machinery and its auxiliaries.

Credit Recommendation: In the vocational certificate category, 2 semester hours in maintenance-machinist or power plant technology (5/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance-machinist or power plant technology (5/74); in the upper-division baccalaureate category, 2 semester hours in maintenance-machinist or power plant technology (5/74).

NV-1732-0006
UTILITRMAN: CLASS A1 (UT''A')

Course Number: A-720-0012; A-720-0016.
Location: All Versions: Construction Training Center, Gulfport, MS; Construction Training Center, Port Hueneme, CA; Version 2: Construction School, Davieville, RI.
Length: Version 1: 11-14 weeks (331-420 hours), Version 2: 12 weeks (368 hours).
Objectives: To train enlisted personnel to be utilities men.

Instruction: Lectures and practical exercises in utilities operation, including plumbing, fuel systems, electrical systems, internal combustion engines, pumps, compressors, water treatment, refrigeration, and boiler operation.

Credit Recommendation: Version 1: In the vocational certificate category, 8 semester hours in utilities (7/76); in the lower-division baccalaureate/associate degree category, 2 semester hours in utilities (4/76); in the vocational certificate category, 9 semester hours in theory of water purification (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in theory of water purification (5/74); in the upper-division baccalaureate category, 2 semester hours in theory of water purification (5/76).

NV-1733-0000
PARACHUTE RIDGE (SURVIVAL), CLASS A

Course Number: Not available.
Location: Air Technical Training Center, Lakehurst, NJ.
Length: 1 week (400 hours),
Exhibit Dates: 11/72-Present.
Objectives: To train personnel to perform as parachute riggers (survival).

Instruction: Lectures and practical exercises in parachute rigging, construction, and repair, including nomenclature, inspection, packing, testing, and maintenance of service parachutes; descent techniques; field-type sewing machine operation; use of all dropable, air-sea, rescue and personal and fixed-aviation survival equipment; and land and sea survival techniques.

Credit Recommendation: In the vocational certificate category, 4 semester hours in aeronautical technology; in the lower-division baccalaureate/associate degree category, 3 semester hours in aeronautical technology (5/74).

NV-1736-0001
BUILDER/MILLWORKER, CLASS C
(BC'U C MILLWORKER)

Course Number: A-712-0011.
Location: Construction Training Center, Port Hueneme, CA; Construction Training Center, Gulfport, MS; Construction School, Davieville, RI.
Length: 5-6 weeks (180-275 hours),
Exhibit Dates: 11/70-Present.
Objectives: To provide advanced instruction in the methods of millwork.

Instruction: Lectures and practical exercises in advanced millwork manufacturing, including the manufacturing of doors, windows, finish stalls, and various types of trim; operation and operation maintenance of machinery; the preparation of jigs for precutting and prefabrication of mass-produced items such as cabinets, trim, and trusses; shop layout, planning, and supervision; and furniture and cabinet construction.

Credit Recommendation: In the vocational certificate category, 4 semester hours in millwork (7/76).

NV-2202-0000
CARRIER FIXED/WING ANTISUBMARINE WARFARE PATENTS

Course Number: E-20-055.
Location: Fleet Aviation Specialized Operational Training Group, Pacific, San Diego, CA.
Length: 3 weeks (105 hours),
Exhibit Dates: 5/72-Present.
Objectives: To instruct Naval officers in basic oceanographic and antisubmarine warfare tactical procedures.

Instruction: Instruction covers basic oceanography and antisubmarine warfare, with special emphasis on tactical procedures utilized in the employment of carrier fixed-wing antisubmarine warfare systems.

Credit Recommendation: No credit because of the military nature of the course.

NV-2202-0002
NAVY SNIPER TRAINING

Course Number: H-000-1900.
Location: Marine Corps Operations Training Center, C.P. Roberts, CA.
Length: 3 weeks (124 hours),
Exhibit Dates: 11/70-Present.
Objectives: To train highly skilled riflemen to perform as snipers from river assault and river patrol boats.

Instruction: Lectures and practical exercises in sniper orientation, sniper equipment, marksmanship, and field tactics.

Credit Recommendation: No credit because of the military nature of the course.

NV-2202-0003
NURSE CORPS INDOCTRINATION

Course Number: A-00-0097; A-00-4602.
Location: Women Officers School, Newport, RI.
Length: 4 weeks (172 hours),
Exhibit Dates: 5/72-Present.
Objectives: To provide commissioned officers in the nurse corps with military orientation.

Instruction: Lectures in personnel administration; leadership; the naval medical department; legal aspects of military nursing; psychiatric education; personal grooming; and naval history, customs, and traditions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel administration and management (2/74); in the upper-division baccalaureate category, 2 semester hours in personnel administration and management (2/74).

NV-2202-0004
MEDICAL OFFICER INDOCTRINATION

Course Number: None.
Location: Officer Induction School, Newport, RI.
Length: 3 weeks (105 hours),
Exhibit Dates: 5/72-Present.
Objectives: To teach the student basic naval subjects to prepare him to assume the duties of a medical officer.

Instruction: Lectures on Navy organization, national security, general administration, and fleet familiarization.

Credit Recommendation: No credit because of the military nature of the course.

NV-2202-0005
AMPHIBIOUS COMMAND INDOCTRINATION

Course Number: G-2E-6303.
Location: Amphibious School, Norfolk, VA.
Length: 2-4 weeks (74-164 hours),
Exhibit Dates: 5/69-Present.
Objectives: To orient or refresh commanding officers, executive officers, and staff staff officers of amphibious ships in the organization and functions of amphibious forces.

Instruction: Lectures and practical exercises in operations, planning, readiness training, communications, engineering, weather conditions, and command and staff responsibilities.
V-2202-0006

AMPHIBIOUS TACTICAL AIR CONTROL PARTY (TACTICAL AIR CONTROL PARTY)

Course Number: None.

Location: Naval Amphibious School, Norfolk, VA; Naval Amphibious School, San Diego, CA.

Length: 3 weeks (96-106 hours).

Exhibit Dates: 1/66-Present.

Objectives: To train officers to control and coordinate tactical air support.

Instruction: Procedures of tactical air support planning and request; techniques of forward air controlling; helicopter planning and employment; and practical field exercises.

Credit Recommendation: No credit because of the military nature of the course (1/74).

NV-2202-0008

NAVAL PREPARATORY SCHOOL

Course Number: None.

Location: Naval Training Center, Bainbridge, MD; Naval Training Center, San Diego, CA.

Length: 9 weeks.

Exhibit Dates: 2/71-Present.

Objectives: To provide prospective, engineering and science students, with a college-preparatory course in mathematics and English.

Instruction: Lectures and practical exercises in English grammar and syntax; techniques of improving written and oral expression; algebra, trigonometry, analytical geometry; calculus; and chemistry and physics.

Credit Recommendation: No credit because of the college preparatory nature of the course (1/74).

NV-2202-0009

ROTOR WING ANTISUBMARINE WARFARE TACTICS

Course Number: E-2C-012.

Location: Fleet Airborne Electronics Training Unit, Pacific, San Diego, CA.

Length: 3 weeks (102 hours).

Exhibit Dates: 2/71-Present.

Objectives: To instruct naval aviators in antisubmarine warfare tactical procedures and general oceanography as applied to helicopter antisubmarine warfare acoustic sensors.

Instruction: Instruction covers oceanography and antisubmarine warfare, with specific emphasis on tactical procedures utilized in the employment of helicopter antisubmarine warfare systems.

Credit Recommendation: No credit because of the limited, specialized nature of the course (4/76).

NV-2202-0010

VIETNAM ORIENTATION

Course Number: None.

Location: Amphibious School, San Diego, CA.

Length: 2 weeks (80 hours).

Exhibit Dates: 11/72-Present.

Objectives: To provide personnel with a broad overview of the military, political, social, and economic situation in South Vietnam.

Instruction: Geographical; historical; and cultural aspects of South Vietnam; weapons, survival, and medical training; communications; defense planning; logistics; methods of insurgency and counterinsurgency; administrative organization.

Credit Recommendation: No credit because of the limited technical nature of the course (1/74).

NV-2202-0011

VIETNAM ORIENTATION

Course Number: A-011-0014.

Location: Amphibious School, San Diego, CA.

Length: 3 weeks (110 hours).

Exhibit Dates: 11/72-Present.

Objectives: To provide personnel with a broad overview of the military, political, social, and economic situation in South Vietnam.

Instruction: Nature of the Vietnam conflict; national objectives and strategies in Southeast Asia; U.S. Navy role in Southeast Asia; Vietnamese geographical, historical, and cultural introduction; weapons; medical and survival training.

Credit Recommendation: No credit because of the military nature of the course (1/74).

NV-2202-0012

SONAR WATCH SUPERVISOR AND ADVANCED WATCHSTANDER TRAINING

Course Number: F-210-011.

Location: Submarine School, Groton, CT.

Length: 2 weeks (54 hours).

Exhibit Dates: 11/72-Present.

Objectives: To provide experienced watch supervisors or prospective watch supervisors with advanced training in passive sonar; contact procedures.

Instruction: Foreign patrol craft and warship acoustic analysis; foreign diesel and nuclear submarines; sonar identification and classification translation; radio and sonar filter operation.

Credit Recommendation: In the vocational certificate category, 1 semester hour in electronics (1/74).

NV-2202-0013

SUBMARINE OFFICERS ADVANCED

Course Number: A-2E-0030.

Location: Submarine School, Groton, CT.

Length: 24 weeks (752 hours).

Exhibit Dates: 7/72-Present.

Objectives: To train selected junior officers in the technical and administrative management of nuclear submarines.

Instruction: Procedures of shipboard management and administration; electronic equipment techniques; foreign naval weapons systems; navigational skills; naval communications; principles of electronic warfare.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management and administration, 3 in electrical engineering (1/74); in the upper-division baccalaureate category, 3 semester hours in personnel, management and administration, 3 in electrical engineering (1/74).

NV-2202-0015

A-6A CONVENTIONAL WEAPONS

Course Number: None.

Location: Naval Air Maintenance Training Group, Ocotara, VA; Naval Air Maintenance Training Group, Whidbey Island, WA.

Length: 2 weeks (80 hours).

Exhibit Dates: 4/71-Present.

Objectives: To provide ordnance personnel with a broad understanding of suspension and ordnance equipment and conventional weaponry.

Instruction: Aircraft familiarization; assembly, installation; and disassembly procedures for ordnance weaponry; safety features and procedures for conventional weaponry.

Credit Recommendation: No credit because of the military nature of the course (1/74).

NV-2202-0016

WARRANT OFFICER (WO) AVIATION INDORATION

Course Number: None.

Location: Naval Air Basic Training Command, Pensacola, FL.

Length: 6-8 weeks (213-300 hours).

Exhibit Dates: 6/65-Present.

Objectives: To train warrant officers to perform managerial and supervisory functions in the aviation field.

Instruction: Lectures in the basic principles of management, including human relations, personnel management, basic psychology, world affairs, effective written and oral communication, military justice, and military organization.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in naval science (12/68).

NV-2202-0017

SURFACE EXPLOSIVE ORDNANCE DISPOSAL BASIC

Course Number: A-4E-0022; A-431-0012.

Location: Naval School, Indian Head, MD.

Length: 12 weeks (440 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train military personnel of all branch services in the techniques of explosive ordnance disposal.

Instruction: Basic electricity; elementary physics; demolition procedures; identification and removal; munition procedures; operation, render-safe, and disposal procedures; identification and reporting of underwater explosive ordnance.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in metallurgical engineering (1/74).

NV-2202-0018

UDT-SEAL EXPLOSIVE ORDNANCE DISPOSAL INDORATION

Course Number: A-431-0023.

Location: Naval School, Indian Head, MD.
COURSE EXHIBITS:

Length: 5 weeks (175 hours).

Exhibit Dates: 10/72-Present.

Objectives: To provide naval personnel with the skills necessary to recognize, evaluate, and dispose of conventional ordnance and explosives.

Instruction: Basic physics and principles of electricity, function of ordnance, characteristics and methods of disposal of explosive fillers, processes of explosive demolition, identification and classification of plants, and ordnance disposal techniques.

Credit Recommendation: No credit because of the military nature of the course.

NV-2202-0019

EXPLOSIVE ORDNANCE DISPOSAL—RESERVE OFFICER TRAINING

Course Number: A-4E-0045.
Location: Naval School, Indian Head, MD.
Length: 2 weeks (75 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train naval reserve officers in the procedures for recovering, evaluating, and disposing of non-nuclear ordnance.

Instruction: Underwater ordnance and principles of ordnance; performance of ordnance disposal; recovery and handling of ordnance; methods of munition disposal; and ordnance disposal procedures.

Credit Recommendation: No credit because of the military nature of the course.

NV-2202-0020

EXPLOSIVE ORDNANCE DISPOSAL—NAVY BASIC

Course Number: None.
Location: Naval School, Indian Head, MD.
Length: 10 weeks (328 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train naval personnel to recover, evaluate, render safe, and dispose of ordnance explosive ordnance.

Instruction: Lectures on ordnance theory, concepts, and ordnance disposal techniques; survival techniques; ordnance disposal hazards; and ordnance disposal procedures.

Credit Recommendation: No credit because of the military nature of the course.

NV-2202-0022

FLEET AND FLEET ENLISTED AIR INTELLIGENCE

Course Number: None.
Location: Operational Intelligence Training Center, Norfolk, VA.
Length: 3 weeks (152 hours).

Exhibit Dates: 1/70-Present.

Objectives: To train military personnel in the operational aspects of air intelligence.

Instruction: Lectures on fundamentals of intelligence, recognition and capabilities of European-communist weapons systems, practical intelligence handling, and intelligence reporting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in photographic interpretation (1/74).

NV-2202-0023

FLEET AIR INTELLIGENCE OFFICER

Course Number: K-3A-5001; K-3A-516.
Location: Fleet Operational Intelligence Training Center, San Diego, CA.
Length: 3 weeks (152 hours).

Exhibit Dates: 2/70-Present.

Objectives: To train Navy and Marine Corps officers in the operational aspects of air intelligence.

Instruction: Lectures on fundamentals of intelligence, recognition and capabilities of European-communist weapons systems, practical intelligence handling, and intelligence reporting.

Credit Recommendation: In the vocational certificate category, 1 semester hour in photographic interpretation (1/74).

NV-2202-0024

CVA/CVS AIR LAUNCHED WEAPONS—GENERAL ORDINANCE

Course Number: None.
Location: Navy Military Training Detachment, Jacksonville, FL; Navy Military Training Detachment, Norfolk, VA; Navy Military Training Detachment, Alameda, CA; Navy Military Training Detachment, North Island, CA.
Length: 3 weeks (120 hours).

Exhibit Dates: 9/72-Present.

Objectives: To teach weapon handlers assigned to aircraft carriers the procedures and safety precautions of air launched weapons handling.

Instruction: Lectures and practical exercises in basic carrier operation, ammunitions handling, weapons launching, and air launched-missiles.

Credit Recommendation: In the vocational certificate category, 3 semester hours in explosives handling (2/74).

NV-2202-0025

BATTALION STAFF OFFICERS (AMPHIBIOUS)

Course Number: G-2E-4231.
Location: Amphibious Base, Little Creek, VA.
Length: 3 weeks (77 hours).

Exhibit Dates: 12/71-Present.

Objectives: To train U.S. and foreign armed forces officers and staff noncommissioned officers to function effectively as members of a battalion executive staff in amphibious environments.

Instruction: Lectures on amphibious organization; organization for combat; organization and functioning of battalion staff, the sequence of command and staff action; and principles of intelligence, operations, logistics, embarkation, supporting arms, and communications.

Credit Recommendation: No credit because of the military nature of the course.

NV-2202-0026

1. JUMPMASTER NAVAL PARACHUTIST, CLASS C1

2. NAVY JUMPMASTER CLASS C

Course Number: C-602-20.
Location: Naval Air Technical Training Center, Lakehurst, NJ.
Exhibit Dates: 5/72-Present.

Objectives: To prepare U.S. and Marine Corps personnel to safely and efficiently organize and conduct parachute operations.

Instruction: Lectures and practical exercises in the theory of parachute jumping; organization and direction of parachute jumping; parachute equipment; maps and photos; communications; and parachute operations, including day, night, land, and water jumps.

Credit Recommendation: In the vocational certificate category, 1 semester hour in parachuting (2/74).

NV-2202-0027

SURFACE WARFARE OFFICER SCHOOL

Course Number: None.
Location: Surface Warfare Officer School, Newport, RI.
Length: 6 weeks (202 hours).
Exhibit Dates: 10/71-Present.

Objectives: To provide instruction for surface line officers in division officer and watch-standing duties.

Instruction: Lectures and practical exercises in administration and organization, shipboard damage control, watchstanding, seamanship, engineering, ship handling.

Credit Recommendation: In the vocational certificate category, 3 semester hours in personnel management and administration (2/74); In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management and organization (2/74); In the upper-division, baccalaureate category, 3 semester hours in personnel management and administration (2/74).
NV-2202-0029
BASIC ENLISTED SUBMARINE
Course Number: A-060-0011; F-000-010.
Location: Submarine School, Groton, CT.
Length: 6-8 weeks (165-236 hours).
Exhibit Dates: 10/67-11/68.
Objectives: To prepare enlisted personnel for assignment to an operational submarine.
Instruction: Lectures on the description and operation of the basic submarine and practical exercises in checks and adjustments in the maintenance of the submarine.
Credit Recommendation: No credit because of the military nature of the course (2/74).

NV-2202-0030
1. BASIC NAVAL PARACHUTIST, CLASS D
2. BASIC NAVAL PARACHUTIST COURSE, NP-1 CLASS C
(Naval Parachutist, Basic Class C)
Course Number: C-602-0020.
Location: Air Technical Training Center, Lakehurst, NJ.
Objectives: To train personnel to become qualified parachutists.
Instruction: Lectures and practical exercises in the history of parachuting; aircraft procedures; canopy control; and pre-jump, during-jump, and post-jump procedures.
Credit Recommendation: No credit because of the military nature of the course (2/74).

NV-2202-0031
Ammunition Planning
Course Number: G-2G-6510; H-2G-5212.
Location: Ammunition Schools, Norfolk, VA; Amphibious Schools, San Diego, CA.
Length: 2 weeks (73 hours).
Exhibit Dates: 1/71-12/71.
Objectives: To cover officers with the knowledge and skills necessary to plan and control ammunition supplies.
Instruction: Lectures and practical exercises in planning ammunition supplies, including ship-to-shore movement, intelligence, communications, and general military planning procedures.
Credit Recommendation: No credit because of the military nature of the course (2/74).

NV-2202-0032
AVIATION ANTISUBMARINE WARFARE FOR SEAMAN'S FIRST (SAWF) COURSE
(AASW for Second Class Pilots, P1A/B (D))
Course Number: E-2D-005.
Location: Fleet Aviation Specialized Operational Training Group, Moffett Field, CA.
Length: 3 weeks (115 hours).
Exhibit Dates: 9/72-10/72.
Objectives: To provide experienced naval aviators with supplementary training to prepare them for duty in the Pacific.
Instruction: Lectures and practical demonstrations in oceanography, underwater acoustics, aircraft sensors, and airborne antisubmarine warfare tactics.
Credit Recommendation: No credit because of the military nature of the course (2/74).

NV-2202-0033
AVIATION OFFICER CANDIDATE
Course Number: None.
Location: Air Basic Training Command, Pensacola, FL.
Objectives: To train military personnel to become aviators.
Instruction: Lectures in naval history, orientation to naval careers, world affairs, physics and mathematics, engineering, aerodynamics, aviation physiology, navigation and seamanship, physical fitness and swimming, and applied leadership training.
Credit Recommendation: No credit because of the military nature of the course (2/74).

NV-2202-0034
LIGHT AIRBORNE MULTIPURPOSE SYSTEM (LAMPS) OPERATOR
(COURSE NUMBER: Version 1: E-210-0057
Version 2: E-210-057)
Location: Fleet Aviation, Specialized Operational Training Group, Pacific, San Diego, CA; Fleet Airborne Electronics Training Unit, Pacific, San Diego, CA.
Exhibit Dates: 7/72-12/72.
Objectives: To train enlisted personnel in passive/active acoustic and nonacoustic sensor operation in a light airborne multipurpose system squadron.
Instruction: Lectures and practical exercises in passive/active acoustic and nonacoustic sensor operation, basic localization techniques, RADAR/MAD operation, and aerial interpretation.
Credit Recommendation: No credit because of the limited technical nature of the course (2/74).

NV-2202-0035
LIGHT AIRBORNE MULTIPURPOSE SYSTEM (LAMPS) TACTICS
Course Number: E-2C-013.
Location: Fleet Airborne Electronics Training Unit, Pacific, San Diego, CA.
Length: 3 weeks (103 hours).
Exhibit Dates: 4/72-12/72.
Objectives: To train officers in basic oceanography and tactical training.
Instruction: Lectures include basic oceanography, antisubmarine warfare, and anti-submarine warfare. Dates and training plans are subject to change. No credit for the rest of the course (2/74).

NV-2202-0036
AIRBORNE EARLY WARNING, CLASS D
Course Number: None.
Location: Air Technical Training Center, Glyncro, GA.
Length: 7 weeks (280 hours).
Exhibit Dates: 2/68-2/69.
Objectives: To provide flight crew officers with training in airborne early warning systems.
Instruction: Lectures on airborne electronic equipment, navigational problems, airborne early warning and antisubmarine warfare systems, and basic air control, simulated training in airborne early warning, and flight training.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-2202-0037
SHORE FIRE CONTROL PARTY
Course Number: G-041-6436.
Location: Amphibious School, Little Creek, Norfolk, VA.
Length: 3 weeks (417-121 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train enlisted personnel in the duties of shore fire control party men.
Instruction: Lectures and practical exercises in communications, map reading, fire support ships and ammunition, and air/sea/land fires, and to qualify trained.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

NV-2202-0038
BASIC CIC TECHNIQUES FOR ENLISTED PERSONNEL
Course Number: K-221-0019.
Location: Fleet Anti-Air Warfare Training Center, San Diego, CA.
Length: 3 weeks (88 hours).
Objectives: To teach enlisted personnel basic counterintelligence communications (CIC) techniques.
Instruction: Lectures and practical exercises in basic CIC techniques, including concepts of CIC, radiotelephone nets and radiotelephone procedures, allied naval signal books, internal communications, and sound-powered telephone procedures, basic principles of radar, maneuvering-board fundamentals, CIC plots, DRT check-out, plotting procedures, radar assistance, tactics, basic techniques, and simple and circular forms.
COURSE EXHIBITS

COURSE NUMBER: D-2A-0011; D-2A-012
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 5 weeks (150 hours).
Exhibit Dates: 1/66-1/68.
Objectives: To train CRAG tactical coordinators in the operation, capabilities, limitations, and tactical applications of CRAG aircraft.
Instruction: Lectures in CRAG weapon system introduction, detection and contact classification, visual search techniques; radar characteristics, equipment, and tactics; and various weapon system equipment operation.
Credit Recommendation: No credit because of the military nature of the course (12/68).

ASW TACTICS—FIRST TOUR VP PILOT
(CRAG VP ASW INDOCTRINATION, EQUIPMENTS, AND TACTICS—S-2E AIRCRAFT)
Course Number: D-2A-0012
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 5-7 weeks (150-235 hours).
Exhibit Dates: 1/66-1/68.
Objectives: To train pilots to operate the S-2E aircraft.
Instruction: Lectures and practical exercises in submarine detection and evasive tactics, underwater sound, radar and ECM equipment and tactics, attack criteria, and coordinated submarine/air operations.
Credit Recommendation: No credit because of the military nature of the course (12/68).

WEAPONS DELIVERY SYSTEM (OFFICERS)
Course Number: F-4E-013
Location: Submarine School, Groton, CT.
Length: 5 weeks (235 hours).
Exhibit Dates: 7/66-7/68.
Objectives: To train CRAG tactical coordinators in the operation, capabilities, limitations, and tactical applications of CRAG aircraft.
Instruction: Lectures in CRAG weapon system introduction, detection and contact classification, visual search techniques; radar characteristics, equipment, and tactics; and various weapon system equipment operation.
Credit Recommendation: No credit because of the military nature of the course (12/68).

MOBILES/RIVERINE FORCE STAFF OFFICER TRAINING
Course Number: H-00-1501
Location: Inshore Operations Training Center, Mare Island, CA.
Length: 6 weeks (256 hours).
Exhibit Dates: 1/66-1/68.
Objectives: To train CRAG tactical coordinators in the operation, capabilities, limitations, and tactical applications of CRAG aircraft.
Instruction: Lectures in CRAG weapon system introduction, detection and contact classification, visual search techniques; radar characteristics, equipment, and tactics; and various weapon system equipment operation.
Credit Recommendation: No credit because of the military nature of the course (12/68).

ASW TACTICS—FIRST TOUR VP PILOT
(CRAG VP ASW INDOCTRINATION, EQUIPMENTS, AND TACTICS—S-2E AIRCRAFT)
Course Number: D-2A-0011; D-2A-012
Location: Fleet Airborne Electronics Training Unit, Atlantic, Norfolk, VA.
Length: 5 weeks (150-235 hours).
Exhibit Dates: 1/66-1/68.
Objectives: To train pilots to operate the S-2E aircraft.
Instruction: Lectures and practical exercises in submarine detection and evasive tactics, underwater sound, radar and ECM equipment and tactics, attack criteria, and coordinated submarine/air operations.
Credit Recommendation: No credit because of the military nature of the course (12/68).

WEAPONS DELIVERY SYSTEM (OFFICERS)
Course Number: F-4E-013
Location: Submarine School, Groton, CT.
Length: 5 weeks (235 hours).
Exhibit Dates: 7/66-7/68.
Objectives: To train CRAG tactical coordinators in the operation, capabilities, limitations, and tactical applications of CRAG aircraft.
Instruction: Lectures in CRAG weapon system introduction, detection and contact classification, visual search techniques; radar characteristics, equipment, and tactics; and various weapon system equipment operation.
Credit Recommendation: No credit because of the military nature of the course (12/68).

MOBILES/RIVERINE FORCE STAFF OFFICER TRAINING
Course Number: H-00-1501
Location: Inshore Operations Training Center, Mare Island, CA.
Length: 6 weeks (256 hours).
Exhibit Dates: 1/66-1/68.
Objectives: To train CRAG tactical coordinators in the operation, capabilities, limitations, and tactical applications of CRAG aircraft.
Instruction: Lectures in CRAG weapon system introduction, detection and contact classification, visual search techniques; radar characteristics, equipment, and tactics; and various weapon system equipment operation.
Credit Recommendation: No credit because of the military nature of the course (12/68).
Objectives: To train officers in the techniques and tactics of riverine warfare.

Instruction: Lectures and practical exercises on riverine warfare techniques, including surveillance, navigation, communication; combat support, combat service support, and tactical boat operations.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-2202-0049

SHIP LANDING PARTY INSTRUCTION

Course Number: G-2E-4606; G-010-4606.

Location: Landing Force Training Command, Norfolk, VA.

Length: 2 weeks (76 hours).

Exhibit Dates: 10/72-Present.

Objectives: To train personnel to conduct small-unit operations ashore and to quell civil disturbances ashore.

Instruction: Lectures and practical exercises on the conduct of small-unit tactics, including individual training, weapons, riot control, communications, map reading, small-unit tactics, helicopter orientation, amphibious training and camouflage.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-2202-0050

CHIEF PETTY OFFICER LEADERSHIP, CLASS C

Course Numbers: None.

Location: Air Training Command, Pensacola, FL.

Length: 5 weeks (220 hours).

Exhibit Dates: 7/59-12/68.

Objectives: To improve the leadership qualities of chief petty officers.

Instruction: Lectures and practical exercises on leadership areas including duties, responsibilities, capabilities, discipline, morale, management, moral leadership, inspections, military justice, drill and command, teaching techniques, job analysis, drill of procedures, communications, map reading, small-unit tactics, helicopter orientation, amphibious training and camouflage.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-2202-0051

JUDGE ADVOCATE GENERAL'S CORPS INDOCTRINATION

Course Number: A-2E-0046.

Location: Officer Training School, Newport, RI.

Length: 8 weeks (280 hours).

Exhibit Dates: 11/72-Present.

Objectives: To train legal officers in basic Navy Judge Advocate General's Corps duties.

Instruction: Lectures in basic naval subjects, including protocol, administration, development of policy, history, concepts of sea power, carrier and submarine operations, combined military operations, shipboard communications, formations and maneuvering, propulsion and damage control, and basic navigation.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-2202-0052

1. ANTI-SUBMARINE AIR CONTROL
   (OFFICER AND ENLISTED)

2. ANTI-SUBMARINE AIR CONTROL, CLASS C/O
   (ANTISUBMARINE AIR CONTROL, CLASS O)

Course Number: J-221-0321; J-2G-3212; J-211-3212.

Location: Fleet Combat Direction Systems Training Center, Atlantic, Dam Neck, VA. Version 1: Fleet Combat Direction Systems Training Center, Glydel, GA.

Length: Version 1: 3 weeks (105 hours).

Version 2: 4-5 weeks (152-164 hours).

Exhibit Dates: Version 1: 10/72-Present.


Objectives: To train, officers and senior enlisted personnel to perform as antisubmarine air controllers using fixed and rotary-wing techniques and procedures.

Instruction: Lectures and practical exercises in antisubmarine air control using fixed- and rotary-wing techniques and procedures, including search and rescue, sonar, submarine capabilities, coordinated antisubmarine warfare operations, intelligence procedures, aircraft control, attack procedures, communications, and emergency procedures, helicopters and sonar-characteristics, and associated light, multipurpose systems.

Credit Recommendation: No credit because of the military nature of the course (12/68).

NV-2202-0053

NAVY NAVAL AIR SPOTTER

Course Number: H-2G-5443.

Location: Amphibious School, San Diego, CA.

Length: 3 weeks (114-153 hours).

Exhibit Dates: 2/66-Present.

Objectives: To train officers to request and control artillery and close air support, and to perform as ground air spotters.

Instruction: Lectures and practical exercises in the procedures for requesting and controlling artillery and close air support, and the function of gunfire air spotters, including amphibious operations, use of artillery, air support, and supporting arms coordination, ordnance and weapons systems; air observation; map reading; shipboard gunfire control systems; fire procedures; communications; and aviation ordnance and effects.

Credit Recommendation: No credit because of the military nature of the course (12/68).

NV-2202-0054

BASIC SIGNALMAN

Course Number: K-201-2115; J-211-615; K-301-840.

Location: Fleet Training Center, San Diego, CA; Fleet Training Center, Newport, RI; Fleet Training Center, Pearl Harbor, HI.

Length: 6 weeks (180 hours).

Exhibit Dates: 10/63-Present.

Objectives: To train enlisted personnel as watchstanders.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-2202-0055

SUPPORTING ARMS COORDINATION
   (SUPPORTING ARMS COORDINATOR)

Course Number: G-2G-6449.

Location: Amphibious School, Little Creek, Norfolk, VA.

Length: 6 weeks (218-227 hours).

Exhibit Dates: 10/69-Present.

Objectives: To qualify officers to perform as supporting-arms coordinators on amphibious staffs.

Instruction: Lectures and practical exercises on troop organization and operations, coordination of naval gunfire, with air and artillery support, planning naval gunfire support of amphibious operations, and SAOC operations. Includes map roving, amphibious and fire-arms familiarization and planning naval gunfire support of operations ashore, conduct of fire, and supporting-arms coordination.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-2202-0056

SUBMARINE OFFICERS INDOCTRINATION

Course Number: A-2E-0029; F-00-012.

Location: Submarine School, Groton, CT.

Length: 5 weeks (134-142 hours).

Exhibit Dates: 8/70-Present.

Objectives: To qualify officers who have had training in nuclear power as officers on nuclear-powered submarines.

Instruction: Lectures and practical exercises in the duties of officers on nuclear-powered submarines, including vital ship control systems (hydraulics, steering and diving, trim and draft, hovering, high- and low-pressure air, main ballasts, tanks, electrical distribution, ventilation, and snorkeling), diving principles, recovery operations, communications, ship handling, navigational principles, submarine sensors (including sonar), sound propagation principles, and basic electronics procedures.

Credit Recommendation: No credit because of the military nature of the course (5/74).

NV-2202-0057

TROOP NAVAL GUNFIRE SPOTTER

Course Number: G-2G-6435; G-2G-6435; G-041-6435.

Location: Amphibious School, Little Creek, VA.

Length: 3 weeks (108-116 hours).

Exhibit Dates: 5/69-Present.

Objectives: To train officers and non-commissioned officers to perform as naval gunfire spotters.

Instruction: Lectures and practical exercises in planning and coordination of naval gunfire at the spotter level, including administration, gunfire support, communications, planning, and control of naval gunfire and other fire support operations.
I-280  

COURSE EXHIBITS

1-280

Tions, fire support ships, and ordnance, fire planning and coordination, conduct of fire, principles of observation, gunfire teams and communication nets, characteristics and operation of the radar beacon, and communications equipment.

Credit Recommendation: 10 credit because of the military nature of the course (5/74).

NV-2202-0058
NAVAL GUNFIRE LIASON OFFICER
Course Number: G-2G-6434
Location: Amphibious School, Little Creek, VA
Length: 8-9 weeks (271-290 hours).
Exhibit Dates: 1/68-Present.
Objectives: To train officers to perform as gunfire liaison officers.

Instruction: Lectures and practical exercises in the duties of gunfire liaison officers, including troop organization and operation, communications, map reading, conduct of fire, naval gunfire spotting, supporting arms, gunfire support planning, and coordination of gunfire support with air and artillery support in amphibious operations.

Credit Recommendation: 10 credit because of the military nature of the course (5/74).

NV-2202-0062
SHORE FIRE CONTROL PARTY ENLISTED
Course Number: H-041-5442A
Location: Amphibious School, Coronado, San Diego, CA.
Length: 2 weeks (78 hours).
Exhibit Dates: 7/70-Present.
Objectives: To train enlisted personnel as communication controllers and spotters on shore fire control parties.

Instruction: Lectures and practical exercises in gunfire support, operation of the radar beacon, and coordination of gunfire support with air and artillery support in amphibious operations.

Credit Recommendation: 10 credit because of the limited technical nature of the course (5/74).

NV-2202-0067
LEADERSHIP SCHOOLS CLASS C-1
Course Number: Not available.
Location: Service School Command, San Diego, CA; Naval School Command, Norfolk, VA; Naval Schools Command, Great Lakes, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/68-7/68.
Objectives: To provide enlisted personnel with leadership training.

Instruction: Lectures in leadership training, including the Navy's role in world affairs, human relations, petty officer duties and responsibilities, and command leadership training programs.

Credit Recommendation: 10 credit because of the limited technical nature of the course (5/74).

NV-2202-0066
BOAT GROUP OFFICERS
Course Number: H-2E-5313
Location: Amphibious School, Coronado, San Diego, CA.
Length: 2 weeks (82 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train officers to supervise boat groups in ship-to-shore amphibious operations.

Instruction: Lectures and practical exercises in landing craft and amphibious vehicle operation, control of assault boat waves in practice movements, beaching and retreating, landing craft communications, and navigation.

Credit Recommendation: 10 credit because of the limited technical nature of the course (5/74).

NV-2202-0064
NAVAL GUNFIRE SPOTTERS (TROOP OFFICERS)
Course Number: H-2G-5445
Location: Amphibious School, Coronado, San Diego, CA.
Length: 3 weeks (115-153 hours).
Exhibit Dates: 7/66-Present.
Objectives: To train officers in the tactics, techniques, employment, and conduct of naval gunfire during amphibious operations.

Instruction: Lectures and practical exercises in military organization, supporting services, map reading, fire support, ordnance and weapons systems, air operations, communications, and the conduct of naval gunfire.

Credit Recommendation: 10 credit because of the military nature of the course (12/68).

NV-2202-0061
SHORE FIRE CONTROL PARTY ENLISTED
Course Number: H-041-5442A
Location: Amphibious School, Coronado, San Diego, CA.
Length: 2 weeks (78 hours).
Exhibit Dates: 7/70-Present.
Objectives: To train enlisted personnel as communication controllers and spotters on shore fire control parties.

Instruction: Lectures and practical exercises in gunfire support, planning and coordination, and conduct of naval gunfire during amphibious operations.

Credit Recommendation: 10 credit because of the military nature of the course (12/68).

NV-2202-0068
ENVIRONMENTAL INDOCTRINATION
Course Number: D-2A-0003
Location: Naval Air Basic Training Command, Pensacola, FL.
Length: 3 weeks (98-142 hours).
Exhibit Dates: 3/70-Present.
Objectives: To train officers in environmental indoctrination as a prerequisite for aviation flight officer training.

Credit Recommendation: 10 credit because of the military nature of the course (5/74).
NV-2202-0069
COMBAT INFORMATION CENTER (CIC) OFFICER, CLASS O
Location: Air Technical Training Center, Glycno, GA.
Length: 9-13 weeks (353-512 hours).
Exhibit Dates: 10/65- Present.
Objectives: To train officers in all operational phases of combat information centers.
Instruction: Lecture includes management, organization, electronics, electronic warfare, and communications; surface, air, and advanced operations, including air control, antiair and antisubmarine warfare.
Credit Recommendation: No credit because of the limited technical nature of the course (5/74).

NV-2202-0070
ICE OBSERVER, CLASS C
Course Number: Not available.
Location: Technical Training Unit, Lakehurst, NJ.
Length: 6 weeks (240 hours).
Exhibit Dates: 4/57-12/68.
Objectives: To train enlisted personnel for ice reconnaissance duties and operations.
Instruction: Lectures and practical exercises in ice reconnaissance duties and operations. Topics include military operations, ice seamanship, survival, sea ice, land ice, equipment utilization, and observation techniques.
Credit Recommendation: No credit because of the limited technical nature of the course (12/68).

NV-2202-0071
COMBAT SENSOR WARFARE TRAINING
Course Number: H-00-1940; H-000-1940.
Location: Inshore Operations Training Center, Mare Island, CA.
Length: 6 weeks (348 hours).
Exhibit Dates: 1/70-Present.
Objectives: To train personnel in combat sensor warfare and in the detection and evaluation of clandestine insurgent movements.
Instruction: Lectures and practical exercises in combat sensor warfare, including counterinturgency, military organization in Vietnam, MACV organization and basic field organization, survival training, intelligence, operations, small arms and explosives, first aid, ground unit tactics, sensor warfare, advanced operational and environmental training, and legal and medical aspects of drug abuse.
Credit Recommendation: No credit because of the military nature of the course (6/74).

NV-2202-0073
DLG 6-16 (MOD) TERRIER WEAPONS SYSTEM MISSILE FIRE CONTROL SYSTEM (MFCS) MK 76 Mod 5 (DLG-16 AMOD) TERRIER WEAPONS SYSTEM
Course Number: A-121-0150.
Location: Guided Missiles School, Dam Neck, VA.
Length: 10 weeks (354 hours).
Exhibit Dates: 10/72- Present.
Objectives: To train fire control technicians on the Terrier missile weapons systems.
Instruction: Lectures and practical exercises on the Terrier weapons system, including introduction to the DLG-16 integrated weapon system, target sensation with Naval Tactical Data System (NTDS) interface, specific weapons direction system, ships weapons systems, weapons system alignment, digital systems maintenance test program and analog system maintenance tests.
Credit Recommendation: No credit because of the limited technical nature of the course (5/74).

NV-2202-0074
COMBAT INFORMATION CENTER (CIC) WATCH OFFICER, CLASS O
Location: Fleet Anti-Air Warfare Training Center, San Diego, CA; Air Technical Training Center, Glycno, GA.
Length: 4 weeks (160 hours).
Exhibit Dates: 4/73- Present.
Objectives: To train officers and chief petty officers to perform as CIC watch officers for normal steaming and condition III watches.
Instruction: Lectures and practical exercises in the functions of the CIC watch officer, including foundation skills, preparation for assuming the watch, surface formation maneuvers, special situations, anti-air warfare, strike force operations, and anti-submarine warfare, exercises, and administration.
Credit Recommendation: No credit because of the military nature of the course (6/74).

NV-2202-0075
ELECTRIC HYDRAULIC POWER DRIVE FOR .50/38 CALIBER DUAL PURPOSE SINGLE MOUNT
Course Number: K-041-2050.
Location: Fleet Training Center, San Diego, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 10/72-Present.
Objectives: To train enlisted personnel to operate, maintain, repair, and analyze the .50/38 caliber gun mount.
Instruction: Lectures and practical exercises in the maintenance and repair of the electric hydraulic power drive for the .50/38 caliber gun mount. Course includes hydraulic systems, electrical systems, local and automatic control, elevation and train indicator receiver regulator, and the interlocking solenoid system.
Credit Recommendation: No credit because of the limited technical nature of the course (6/74).

NV-2202-0076
BASIC QUARTERMASTER
Course Number: K-772-600.
Location: Fleet Training Center, Pearl Harbor, HI.
Length: 4 weeks (120 hours).
Exhibit Dates: 3/64-12/68.
Objectives: To train enlisted personnel to stand quartermaster watches.
Instruction: Lectures and practical exercises in charts and related publications; navigational aids; time and timepieces; logs; compasses and compass bearing; weather; tide tables; current; sunrise and sunset; azimuths; taking bearings; symbols; types of fixes; set and drift; speed and distance; and plotting problems.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-2202-0077
A4 CONVENTIONAL WEAPONS TRAINING
Course Number: Not available.
Location: Air Maintenance Training Detachment, Lemoore, CA; Air Maintenance Training Detachment, El Toro, CA; Air Maintenance Training Detachment, Cecil Field, FL; Air Maintenance Training, Detachment, Cherry Point, NC.
Length: 4 weeks (160 hours).
Exhibit Dates: 3/68- Present.
Objectives: To train enlisted personnel to install and disassemble armament carried on A-4 aircraft.
Instruction: Lectures and practical exercises in the installation and disassembly of armament carried on A-4 aircraft. Course includes explosives introduction, safety procedures, aircraft bombs, fuzes, and rockets and launchers.
Credit Recommendation: No credit because of the limited technical nature of the course (7/74).

NV-2202-0078
2F69D P-3 WEAPON SYSTEM FOLLOW-ON TRAINING
Course Number: Not available.
Location: Fleet Aviation Specialized Operational Training Group, Pacific, Moffett Field, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 4/73- Present.
Objectives: To train flight crew personnel in weapons systems.
Instruction: Lectures and practical exercises in weapons systems, including operating sensors for detection, identification, and destruction of enemy submarines.
Credit Recommendation: No credit because of the military nature of the course (7/74).

NV-2202-0079
2F87 P-3 WEAPON SYSTEM FOLLOW-ON TRAINING
Course Number: Not available.
Location: Fleet Aviation Specialized Operational Training Group, Pacific, Moffett Field, CA.
Length: 2 weeks (64 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train enlisted personnel to operate the 2F87 P-3 weapon system.

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COURSE EXHIBITS

**Instructor:** Lectures and practical exercises in 2F87 P-3 weapon system operation, including operating sensors required to detect, identify, localize, and destroy hostile submarines. 

**Credit Recommendation:** No credit because of the nature of the course (7/74).

**Course(s):**
- **NV-2202-0080** Helicopter (HS) Antisubmarine Warfare Operator (Helicopter Aviation Antisubmarine Warfare Air Sonar Operator (AN/AQS-13))
  - Course Number: E-210-0032; E-210-32
  - Location: Fleet Airborne Electronics Training Unit, Pacific, North Island, CA.
  - Length: 3-4 weeks (90-138 hours)
  - Exhibit Dates: 10/72-Present
  - Objectives: To train enlisted personnel to be airborne sonar operators.
  - Instruction: Lectures and practical exercises in airborne sonar operation, including sonar search procedures, data processing, vector beam patterns, sound recognition, group training, and weapons system trainer.
  - Credit Recommendation: No credit because of the military nature of the course (6/75).
- **NV-2202-0081** Counterinsurgency Orientation
  - Course Number: H-005-5219; H-000-5219
  - Location: Amphibious School, Coronado, San Diego, CA.
  - Length: 2 weeks (80 hours)
  - Exhibit Dates: 11/72-Present
  - Objectives: To train enlisted personnel in the concepts and policies of counterinsurgency.
  - Instruction: Lectures and practical exercises in the concepts and policies of counterinsurgency, with a survey of foreign political ideologies that are in conflict with democratic philosophies. Course includes a survey of philosophical, sociological, political, and cultural influences that conflict with democratic aims, as well as an overview of strategies and tactics used in defense against insurgent movements in foreign countries.
  - Credit Recommendation: No credit because of the military nature of the course (7/74).
- **NV-2202-0082** Talos Telemetering Data Reduction
  - Course Number: Not available.
  - Location: Guided Missiles School, Dam Neck, VA; Naval Schools Command, Mare Island, CA.
  - Length: 3 weeks (90 hours)
  - Exhibit Dates: 2/66-Present
  - Objectives: To train officers and enlisted personnel to perform data reduction and analysis of Talos guided missile telemetered flight records.
  - Instruction: Lectures and practical exercises on Talos telemetering data reduction, including fire control system, telemetering system, airborne telemetering equipment, telemeter ground station and associated evaluation equipment, prefiring procedures, Talos data reduction, and flight analysis.
  - Credit Recommendation: No credit because of the limited technical nature of the course (7/74).
- **NV-2202-0083** Terrier Telemetering Data Reduction
  - Course Number: Not available.
  - Location: Guided Missile School, Dam Neck, VA; Schools Command, Mare Island, CA.
  - Length: 3 weeks (90 hours)
  - Exhibit Dates: 2/66-Present
  - Objectives: To train officers and enlisted personnel to perform data reduction and analysis on Terrier guided missile telemetered flight records.
  - Instruction: Lectures and practical exercises on data reduction and analysis of Terrier guided missile telemetered flight records, including introduction to airborne and ground-station telemetering systems; Terrier guided missile exercise heads; telemeter ground stations and associated equipment; initial specific Terrier guided missile functional description, data reduction and flight analysis.
  - Credit Recommendation: No credit because of the limited technical nature of the course (7/74).
- **NV-2202-0084** ASTOR/SUBROC Operator Maintenance
  - Course Number: K-000-947
  - Location: Nuclear Weapons Training Center, Pacific, North Island, CA.
  - Length: 3 weeks (90 hours)
  - Exhibit Dates: 11/72-Present
  - Objectives: To train COMSUBPAC personnel in the operation and maintenance of the ASTOR torpedo warhead and the SUBROC warhead.
  - Instruction: Lectures and practical exercises in the operation and maintenance of the ASTOR torpedo warhead and SUBROC warhead, including nuclear weapons administration, nuclear training, and weapons training.
  - Credit Recommendation: No credit because of the military nature of the course (8/74).
- **NV-2202-0085** 3/50 Caliber Rapid Fire Gun Mount Maintenance
  - Course Number: K-041-2052
  - Location: Fleet Training Center, San Diego, CA.
  - Length: 2 weeks (60 hours)
  - Exhibit Dates: 10/72-Present
  - Objectives: To train enlisted personnel to operate, maintain, adjust, and repair the 3/50 caliber rapid-fire gun and mount.
  - Instruction: Lectures and practical exercises in 3/50 caliber rapid-fire gun and mount operation, maintenance, and repair, including stand, carriage, training gear, elevating gear, power drives, electrical installations, guns assembly, and loader.
  - Credit Recommendation: No credit because of the military nature of the course (8/74).
- **NV-2202-0086** Navy Nuclear Weapons Advanced Maintenance
  - Course Number: A-644-0015
  - Location: Defense Atomic Support Agency, Albuquerque, NM.
  - Length: 4 weeks (126 hours)
  - Exhibit Dates: 11/72-Present
  - Objectives: To train enlisted personnel to maintain nuclear warheads.
  - Instruction: Lectures and practical exercises in the depot-level maintenance of nuclear warheads, including theory of nuclear warhead components, disassembly, inspection, testing, maintenance, general handling, and safety and preparation and testing of sealant compounds.
  - Credit Recommendation: No credit because of the military nature of the course (8/74).
- **NV-2202-0087** Aviation Indocination, Limited Duty Officer (LDO)
  - Course Number: None
  - Location: Air Base Training Command, Pensacola, FL.
  - Length: 8 weeks (296 hours)
  - Exhibit Dates: 10/64-Present
  - Objectives: To train limited-duty officers to assume various aviation-related duties.
  - Instruction: Lectures and practical exercises in aviation indoctrination for limited-duty officers. Course includes naval leadership, organization and administration, naval history and operations, and physical training.
  - Credit Recommendation: In the upper-division baccalaureate category, 5 semester hours in naval science (12/68).
- **NV-2202-0088** Aviation Reserve Officer Candidate (AVROC)
  - Course Number: None
  - Location: Air Basic Training Command, Pensacola, FL.
  - Length: Version 1: 16 weeks (440 hours); Version 2: 12-16 weeks (404-489 hours)
  - Exhibit Dates: Version 1: 1/69-Present; Version 2: 3/66-12/68
  - Objectives: To train military personnel to be aviation officers.
  - Instruction: This course is the same as NV2202-0033, except that reservists complete it in 2- or 8-week summer sessions. Topics include: naval history; orientation to naval careers; world affairs; physics and mathematics; engineering; aerodynamics; aviation physiology; navigation and seamanship; physical fitness and swimming; and applied leadership training.
  - Credit Recommendation: Version 1: In the upper-division baccalaureate category, 12 semester hours in naval science (i.e., 6 semester hours for each summer session) (2/74). Version 2: In the upper-division baccalaureate category, 6 semester hours in naval science (i.e., 3 semester hours for each summer session) (12/68).
- **NV-2202-0089** Naval Gunfiring Support Planning
  - Course Number: H-2G-5447
  - Location: Amphibious School, Coronado, San Diego, CA.
  - Length: 5-6 weeks (197-237 hours)
  - Exhibit Dates: 7/66-12/68
  - Objectives: To provide Navy and Marine Corps officers with knowledge and skills in naval gunfiring planning and employment.
**Instruction**: Lectures and practical exercises in history of naval gunfire, amphibious raids, organization of military combat units, supporting arms, air control, communications, with special emphasis on landing force aspects.

**Credit Recommendation**: No credit because of the military nature of the course (7/74).  

**NV-2202-0090**  
**Amphibious Junior Division Officer Indocrrination**  
**Course Number**: G-000-6518.  
**Location**: Amphibious School, Little Creek, Norfolk, VA.  
**Length**: 3 weeks (102 hours).  
**Exhibit Dates**: 4/67–Present.  
**Objectives**: To provide newly commissioned officers with knowledge in amphibious warfare.  
**Instruction**: Lectures and practical exercises in concepts of amphibious warfare, operations, planning, communications, ship/shore movement, physical training, leadership, career counseling, and support operations.  
**Credit Recommendation**: No credit because of the military nature of the course (7/74).  

**NV-2202-0091**  
**PHIBLANT Petty Officer Leadership**  
**Course Number**: G-000-6583.  
**Location**: Amphibious Base, Little Creek, VA.  
**Length**: 2 weeks (73 hours).  
**Exhibit Dates**: 10/72–Present.  
**Objectives**: To provide leadership training.  
**Instruction**: Lectures and practical exercises to include leadership principles, instructor training, military law, world affairs, American government, Navy history and heritage, and career counseling.  
**Credit Recommendation**: No credit because of the military nature of the course (7/74).  

**NV-2202-0092**  
**Enlisted Submarine Indocrrination**  
**Course Number**: A-060-0012.  
**Location**: Submarine School, Groton, CT.  
**Length**: 4 weeks (113 hours).  
**Exhibit Dates**: 7/71–Present.  
**Objectives**: To provide enlisted personnel with familiarization and knowledge of submarines.  
**Instruction**: Lectures and practical exercises in purpose, function, and location of installed equipment and systems of a nuclear-powered submarine, including theory and operation of equipment and systems, and all aspects of submarine duty.  
**Credit Recommendation**: No credit because of the specialized nature of the course (7/74).  

**NV-2202-0093**  
**Women Officer Candidate School**  
**Course Number**: A-000-0051.  
**Location**: Women Officer School, Newport, RI.  

**Length**: Version 1: 5-6 weeks (480 hours). Version 2: 7-8 weeks (182-240 hours).  
**Objectives**: To provide women officer candidates with instruction and training in essential naval subjects which will prepare them to perform duties as naval officers.  
**Instruction**: Study of the Navy role in support of national objectives, national security organization, leadership, managerial and personnel administration, military justice, and communication skills development.  
**Credit Recommendation**: No credit because of the limited technical nature of the course (7/74).  

**NV-2202-0096**  
**Y-61 Operator/Familiarization**  
**Course Number**: C-006-0014.  
**Location**: Mine Warfare School, Charleston, SC.  
**Length**: 2 weeks (80 hours).  
**Exhibit Dates**: 11/71–Present.  
**Objectives**: To provide personnel with the necessary skills and related knowledge to operate specified sonar sets.  
**Instruction**: Lectures, demonstrations, and practical experience in doctrine, basic sonar principles and procedures, navigation and plotting, and instruction in system capabilities and limitations of an AN/SQY-14 mine-detecting/ classifying sonar.  
**Credit Recommendation**: No credit because of the limited, specialized nature of the training (8/77).  

**NV-2202-0099**  
**Fire Control System (FCS) Mk 113 Mod 9 Target Motion Analysis (TMA) Operator/Familiarization**  
**Course Number**: A-2F-0036.  
**Location**: Guided Missiles School, Dam Neck, VA.  
**Length**: 2 weeks (60 hours).  
**Exhibit Dates**: 8/71–Present.  
**Objectives**: To instruct personnel in target motion analysis using a specific fire control system.  
**Instruction**: Lectures and practical exercises providing basic background in relative
COURSE EXHIBITS

Object: Motion concepts; plotting techniques; purpose of the system; elements of display; and interpretation of observations.
Credit: No credit because of the limited technical nature of the course.

NV-2202-0100
MARINE NOP (NUCLEAR WEAPONS)
TRAINING FOR NUCLEAR, ORDNANCE
AND PERSONNEL.
Course Number: Not available.
Location: Nuclear Weapons Training
Group, Pacific, North Island, CA.
Length: 17 weeks (243 hours).
Exhibit Dates: 1/73-Present.
Objectives: To train selected Marine
Corps officers and noncommissioned
officers for assignment to nuclear operations
platoons.
Instruction: Instructors includes
administration, security, reliability, and safety, and
theory of operation, assembly, test, and
maintenance of Marine Corps ground-
delivered weapons.
Credit Recommendation: No credit
because of the military nature of the course.

NV-2202-0101
NAVAL ENLISTED SCIENTIFIC EDUCATION
PROGRAM (NESEP)
(NESEP BASIC)
Course Number: A-00-4402; A-00-4404;
A-00-0109.
Location: Officer Candidate School,
Newport, RI.
Length: 10 weeks (260-350 hours).
Exhibit Dates: 4/72-Present.
Objectives: To prepare selected enlisted
personnel for commissioning.
Instruction: Classroom and practical
instruction in leadership and supervision,
naval operations, and general military
subjects.
Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 2 semester hours in interpersonal
relations.

NV-2202-0102
OFFICER CANDIDATE SCHOOL.
Course Number: A-00-4401; A-00-0044.
Location: Education and Training
Center, Newport, RI.
Length: 16-19 weeks (512-665 hours).
Exhibit Dates: 4/55-Present.
Objectives: To provide officer candidates
with an introduction to essential naval subjects.

NV-2202-0103
RESERVE OFFICER CANDIDATE (ROC II
AND ROC I).
Course Number: A-00-4301; A-00-0045.
Location: Education and Training
Center, Newport, RI.
Length: 16-21 weeks (512-665 hours).
Exhibit Dates: 4/55-Present.
Objectives: To provide reserve officer
candidates with instruction in essential
naval subjects.
Instruction: This course provides essentially
the same instructional material as the
Officer Candidate program for active-duty
personnel (see NV-2202-0102). Students
attend 8-9 weeks of training (ROC II)
during the summer between their junior and
senior college years. The remainder of the
program—8-12 weeks (ROC I)—is
completed after graduation from college.
Credit Recommendation: In the upper-
division baccalaureate category, 3 semester
hours in advanced naval science.

NV-2202-0104
GUN MOUNT 5"/54 MK 42 MOD 9 AND 10,
CLASS C1.
Course Number: A-113-0044.
Location: Gunner's Mate School, Great
Lakes, IL.
Length: 19 weeks (570-592 hours).
Exhibit Dates: 2/70-Present.
Objectives: To train personnel in the
operation, adjustment, and maintenance of
a 5"/54 gun mount.
Instruction: Lectures and practical exercises
in gun loaders, belts, ammunition
 carriers, and related equipment.
Credit Recommendation: In the voca-
tional certificate category, 2 semester hours in
electromechanical hydraulic systems.

NV-2202-0105
ADVANCED JEZEBEL (VP).
Course Number: E-210-44.
Location: Fleet Aviation Specialized
Operational Training Group, Moffett Field,
CA.
Length: 2 weeks (70 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train personnel in the
operation of a specific electronic system.
Instruction: Lectures and practical exercises
to include advanced gram analysis, tactical
aspects of AQA-7 Jezebel, intelligence data,
and basic sonar theory.
Credit Recommendation: No credit
because of the military nature of the course.

NV-1784-0230
AN/ASH-2Q (V) FLIGHT RECORDER-
LOCATOR SYSTEM INTERMEDIATE
MAINTENANCE.
Course Number: C-102-3601.
Location: Air Maintenance Training
Detachment, Moffett Field, CA; Air
Maintenance Training Detachment, Patuxent
River, MD.
Length: 3 weeks (120 hours).
Exhibit Dates: 9/73-Present.
Objectives: To provide instruction in the
maintenance of flight recorder-locator systems
to include analysis of the system, subsystems,
and repairable components.
Instruction: Practical application of
learned procedures for checkout, adjust-
ment, troubleshooting, and repair of
electronic systems and circuits, including
battery charger, signal data sound recorder,
digital analog converters, encoders, and
microphone amplifiers.
Credit Recommendation: In the voca-
tional certificate category, 3 semester hours in
electronic flight recorder maintenance.

NV-1710-0041
SHIPFITTERS, CLASS A (PIPEFITTERS).
Course Number: Not available.
Location: Training Center, San Diego,
CA.
Length: 12 weeks (360 hours).
Exhibit Dates: 5/63-12/68.
Objectives: To train enlisted personnel to
be pipefitters.
Instruction: Lectures and practical exercises
in pipefitting, including shipfitter responsibil-
ities, mathematics, blueprint reading,
shipfitting working drawings and symbols,
tools and materials, metallurgy, welding,
brazing and soldering, copper-
smelting and pipefitting.
Credit Recommendation: In the voca-
tional certificate category, 8 semester hours in
pipefitting.
NAVY ENLISTED RATINGS EXHIBITS

NER-ABE-001
AVIATION BOATSWAIN'S MATE
ABE3
ABE2
ABE1
ABEC
Exhibit Dates: 6/71-Present.
Occupational Field: 6 (Aviation Ground Support)

Career Pattern


Description

Summary: Operates and maintains hydraulic and steam catapults, barricades and arresting gear; operates catapult launch, retraction panels, consoles, fire hose packs, water brakes, chronographs, blast deflectors and cooling panels; inspects and protect-load cables, fittings, and wire rope sockets.
ABE3: Inspects and lubricates launch and recovery equipment; replaces packing and seals on catapults and arresting gear; replaces and installs barricades; performs planned maintenance on arresting gear and arresting gear engines; operates and maintains jet blast deflectors; determines safe working, not-for-hoisting materials, wire rope, manila lines, nylon lines; webbing; uses maintenance cards; completes maintenance records.
ABE2: Able to perform the duties required for ABEC, except tests, and adjusts catapults and related equipment; tests and calibrates arresting gear and barricades; supervises personnel on aircraft; launches and recovers equipment and哲学 parts; orders spare parts and special tools.
ABE1: Able to perform the duties required for ABEC, disassembles, replaces defective parts, and reassembles catapult systems, arresting gear engines, and accessories; prepares data for equipment logs; supervises the use of maintenance schedules; maintains custody records.
ABEC: Able to perform the duties required for ABEC; supervises the use, filing, and maintenance of publications and records; screens defective components for repair; inspects and evaluates stores of recovered equipment; insures quality control; prepares quarterly schedules of preventative maintenance, supervises the accounting for and replaceth of accessories and stores.

Recommendation, ABCS

In the vocational certificate category, 3 semester hours in basic hydraulics and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, credit, in hydraulics on the basis of institutional evaluation.

NER-ABE-001
AVIATION BOATSWAIN'S MATE
LAUNCHING AND RECOVERY EQUIPMENT
ABE3
ABE2
ABE1
ABEC
Exhibit Dates: 6/71-Present.
Occupational Field: 6 (Aviation Ground Support)

Career Pattern


Description

Summary: Operates and maintains hydraulic and steam catapults, barricades and arresting gear; operates catapult launch, retraction panels, consoles, fire hose packs, water brakes, chronographs, blast deflectors and cooling panels; inspects and protect-load cables, fittings, and wire rope sockets.
ABE3: Inspects and lubricates launch and recovery equipment; replaces packing and seals on catapults and arresting gear; replaces and installs barricades; performs planned maintenance on arresting gear and arresting gear engines; operates and maintains jet blast deflectors; determines safe working, not-for-hoisting materials, wire rope, manila lines, nylon lines; webbing; uses maintenance cards; completes maintenance records.
ABE2: Able to perform the duties required for ABEC, except tests, and adjusts catapults and related equipment; tests and calibrates arresting gear and barricades; supervises personnel on aircraft; launches and recovers equipment and哲学 parts; orders spare parts and special tools.
ABE1: Able to perform the duties required for ABEC, disassembles, replaces defective parts, and reassembles catapult systems, arresting gear engines, and accessories; prepares data for equipment logs; supervises the use of maintenance schedules; maintains custody records.
ABEC: Able to perform the duties required for ABEC; supervises the use, filing, and maintenance of publications and records; screens defective components for repair; inspects and evaluates stores of recovered equipment; insures quality control; prepares quarterly schedules of preventative maintenance, supervises the accounting for and replaceth of accessories and stores.

Recommendation, ABCS

In the vocational certificate category, 3 semester hours in basic hydraulics and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, credit, in hydraulics on the basis of institutional evaluation.
2-2 *NAVY ENLISTED RATINGS EXHIBITS*

in hydraulics, 3 for field experience in management, 3 in personnel supervision, 2 in shop management, and 2 in record keeping, and 1 in credit in hydraulics, on the basis of institutional evaluation for a minimum total of 13 semester hours (2/77).

NER-ABF-001

**AVIATION BOATSWAIN'S MATE, FUELS**

ABF3

ABF2

ABF1

ABF

Exhibit Dates: 6/71-Present,

Occupational Field: 6 (Aviation Ground Support).

Career Pattern

AN: Airman (E-3); ABH3: Aviation Boatswain's Mate, Fuels, Third Class (E-4); ABH2: Aviation Boatswain's Mate, Fuels, Second Class (E-5); ABH1: Aviation Boatswain's Mate, Fuels, First Class (E-6). ABFC: Chief Aviation Boatswain's Mate, Fuels (E-7). ABCS: Senior Chief Aviation Boatswain's Mate (E-8). ABCM: Master Chief Aviation Boatswain's Mate (E-9).

**Description**

**Summary:** Operates, maintains, and repairs fueling and lubricating oil systems including service stations, pumproom pumps, piping, valves, tanks, and protective piping systems; operates equipment associated with the fueling and defueling of aircraft aboard ship and ashore; operates motor driven fueling equipment; maintains fuel quality; trains, directs, and supervises fire-fighting crews and fire rescue teams; follows fuel-handling safety precautions.

**ABF3:** Operates shipboard firefighting and life saving equipment; knows the characteristics of aviation fuel fires and the procedures and equipment required to fight them; performs maintenance record keeping; uses portable inertness analyzers; aligns valves in fuel piping systems for various operations; fuels and defuels aircraft; obtains samples of aviation fuels and tests for water and solid contamination; prepares specific operations and hazards of aviation fuels; makes entries in pumproom logs and records; uses maintenance record cards; performs crash firefighting and mobile fueling and lubricating oil equipment; uses and maintains hand tools and portable power tools.

**ABF2:** Able to perform the duties required for ABF3; replaces components of aviation fuel and lubricating oil systems; conducts tests on fuel filter elements; operates solid contamination detectors and water free detectors; inventories, orders, and accounts for spare repair parts; supervises crews in the fueling and defueling of aircraft. 

**ABF1:** Able to perform the duties required for ABF2; installs and operates new and modified equipment; determines the cause of malfunctions; functions in the operation of fuel and lubricating oil systems; performs preventive maintenance on fueling equipment; directs the filling and defueling of aircraft; supervises the proper use and maintenance of hand tools and portable power tools; ensures that technical specifications and standards of work are followed; inspects and evaluates the operation of repaired or newly installed parts and components of aviation fuel systems and related equipment.

**Recommendation, ABF3**

In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science and 2 in aircraft servicing (2/77).

**Recommendation, ABF2**

In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science, 3 in aircraft servicing, 2 in personnel supervision, 2 in shop management, and 2 in record keeping, for a total of 12 semester hours (2/77).

**Recommendation, ABF1**

In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science, 3 in aircraft servicing, 2 in personnel supervision, 2 in shop management, and 2 in record keeping, for a total of 16 semester hours (2/77).

NER-ABH-001

**AVIATION BOATSWAIN'S MATE, AIRCRAFT HANDLING**

ABH3

ABH2

ABH1

ABHC

Exhibit Dates: 6/71-Present,

Occupational Field: 6 (Aviation Ground Support).

Career Pattern

AN: Airman (E-3); ABH3: Aviation Boatswain's Mate, Aircraft Handling, Third Class (E-4); ABH2: Aviation Boatswain's Mate, Aircraft Handling, Second Class (E-5); ABH1: Aviation Boatswain's Mate, Aircraft Handling, First Class (E-6). ABHC: Chief Aviation Boatswain's Mate, Aircraft Handling (E-7). ABCS: Senior Chief Aviation Boatswain's Mate (E-8). ABCM: Master Chief Aviation Boatswain's Mate (E-9).

**Description**

**Summary:** Directs the movement and spotting of aircraft ashore and aloft; performs daily inspections on mobile crash-handling vehicles and equipment; installs aircraft hoisting slings involving emergency crash landings; operates such vehicles; directs the loading and unloading of aircraft; supervises the use and maintenance of fire-fighting equipment; secures aircraft and equipment; operates portable firefighting systems; reads and interprets blueprints and drawings; inventories installed equipment and special tools; uses maintenance publications.

**ABH3:** Able to perform the duties required for ABH2; directs a crew in performing daily inspections on mobile crash-handling vehicles and equipment; secures aircraft and equipment; operates portable firefighting systems; reads and interprets blueprints and drawings; inventories installed equipment and special tools; uses maintenance publications.

**Recommendation, ABH3 and ABH2**

In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science, 3 in aircraft servicing or air operations (2/77).

**Recommendation, ABH1**

In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science, 3 in aircraft servicing or air operations, 2 in personnel supervision, 2 in shop management, and 2 in record keeping, and additional credit in fire science on the basis of institutional evaluation, for a minimum total of 12 semester hours (2/77).

**Recommendation, ABHC**

In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science, 3 in aircraft servicing or air operations, 3 in personnel supervision, 3 for field experience in management, 2 in shop management, and 2 in record keeping, and additional credit in fire science on the basis of institutional evaluation, for a minimum total of 16 semester hours (2/77).
NAVY ENLISTED RATINGS EXHIBITS 2-3

Recommendaion, ACCM

In the vocational certificate category, the recommendation is the same as for AC2. In the lower-division baccalaureate category, the recommendation is the same as for ACCS. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in organization, and 3 in management problems, for a total of 9 semester hours (2/77).

NER-AD-001

AVIATION MACHINIST'S MATE, SENIOR CHIEF

Exhibit Dates: 6/71-12/76.

Occupational Field: 5 (Aviation Maintenance/Weapons).

Career Pattern

May progress from either ADJC, Chief Aviation Machinist's Mate, Jet Engine Mechanic, (E-7), or ADRC, Chief Aviation Machinist's Mate, Reciprocating Engine Mechanic (E-7). ADCS: Senior Chief Avi-

ation Machinist's Mate (E-8). APCM: Master Chief Aircraft Machineman (E-9).

Description

Manages, supervises, and administers power plant work centers; plans safety programs pertaining to aircraft power plants, related equipment, and work centers; interprets maintenance instructions and directives; ensures that established procedures are followed; for conducting ground tests and inspections to maintain desired quality level; applies quality control concepts; evaluates repair requirements and requests technical assistance from contracted representatives, as needed; determines capabilities, limitations, and reliability of aircraft power plants and related systems; administers long-range planned maintenance programs, organizes, schedules, and evaluates training programs; prepares local directives and instructions; prepares correspondence.

Recommendation, ADCS

In the vocational certificate category, use the recommendation for either ADJC, Chief Aviation Machinist's Mate, Jet Engine Mechanic, Second Class in exhibit NER-ADJ-001 or ADRC (Chief Aviation Machinist's Mate, Reciprocating Engine Mechanic, First Class) in exhibit NER-ADR-001, as appropriate. In the lower-division baccalaureate/associate degree category, 3 semester hours in safety management, and 3 in principles of administration; add the 30 semester hours recommended for either ADJC (Chief Aviation Machinist's Mate, Jet Engine Mechanic) in exhibit NER-ADJ-001 or ADRC (Chief Aviation Machinist's Mate, Reciprocating Engine Mechanic) in exhibit NER-ADR-001, as appropriate, for a total of 36 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in organization, and 3 in human relations, for a total of 15 semester hours (2/77).
NAS-AD-002

AVIATION MACHINIST'S MATE

ADJ3

ADJ2

ADJ1

ADJC

ADCS

Exhibit Dates: 1/77-Present. Pending evaluation.

NAS-ADJ-001

AVIATION MACHINIST'S MATE, JET ENGINE MECHANIC

ADJ3

ADJ2

ADJ1

Exhibit Dates: 6/71-12/76. (Effective 1/77, AD) was discontinued and its functions were condensed into ADJ3, Aviation Machinist's Mate.)

Occupational Field: 5 (Aviation Maintenance/Weapons).

Career Patterns


Description

Summary: Maintains aircraft jet engines and related systems, including the induction, cooling, fuel, oil, compression, combustion, turbine, airborne gas-turbine compressors, and exhaust systems. ADJ3 removes and installs, removes, and operates jet calibration test units; diagnoses defects in fuel and oil systems; rig and adjusts power controls; fuel selector and shutoff valve controls; igniters, removes, and installs helicopter tail rotor transmissions, and rotary wing head and components; inspects compressor and propeller shaft and radial clearances; preserves and deprecates aircraft power plants and related systems; performs periodic aircraft inspections; orders technical publications, directives, and manuals; is a first-line supervisor of a 3 to 7-person work group. ADJ2: Able to perform the duties required for ADJ3; troubleshoots malfunctions in power plant systems; removes and installs blader and self-sealing fuel cell; inspects, removes, and installs helicopter transmission; tail rotors, swashplates and pitch link rod; supervises use of ground support equipment peculiar to power plants and related systems; orders power plant parts, equipment, material, and tools and maintains inventory records; supervises training of, subordinates maintaining power plants and related systems; supervises aircraft maintenance inspection and evaluates operation of repaired or newly installed power plants and power plant systems; prepares weekly schedules of preventive maintenance; maintains shop files of technical publications, directives, and manuals; supervises medium-sized (10-15 persons) work centers. ADJ1: Able to perform the duties required for ADJ2; supervises use of engine service record; maintenance, and test equipment; determines type and kind of information to be recorded in each section of the aircraft log book and aeronautical equipment service record; recommends changes to maintenance instructions; analyzes reports of aircraft engine malfunctions and discrepancies and determines corrective actions; performs inspection procedures to ensure that technical specifications and standards of workmanship are met; supervises scheduling of work at power plant work centers; determines feasibility of, local repairs to components of power plants and related systems; prepares quarterly and bulbs of preventive maintenance; orders; inspects, removes, and accounts for quick-change change kits and spare engines; disposes of engines removed from service; estimates power, plant spare parts, equipment, supplies, and manpower requirements.

Recommendation, ADJ3

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft engine (turbine) maintenance and repair, and in aviation maintenance technology (2/77).

Recommendation, ADJ2

In the vocational certificate category, 15 semester hours in aircraft engine (turbine) maintenance and repair and 6 in aviation maintenance technology. In the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft engine (turbine) maintenance and repair, and 2 in personnel supervision, for a total of 23 semester hours (2/77).

Recommendation, ADJ1

In the vocational certificate category, the recommendation is the same as that for ADJ2. In the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft engine (turbine) maintenance and repair, and 6 in aviation maintenance technology; 3 in personnel supervision, and 2 in maintenance management, for a total of 26 semester hours (2/77).

Recommendation, ADJC

In the vocational certificate category, the recommendation is the same as that for ADJ2. In the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft engine (turbine) maintenance and repair, 3 in aviation maintenance technology, 3 in personnel supervision, 3 in maintenance management, and 3 in shop management, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (2/77).
NAVY ENLISTED RATINGS EXHIBITS 2-5

NER-AE-001
AVIATION ELECTRICIAN'S MATE
AE3
AE2
AE1
AEC
AECs

Exhibit Dates: 6/71-Present.
Occupational Field: 5 (Aviation Maintenance/Weapons).

Description
Summary: Maintains and repairs lighting, control, and power systems on aircraft, including aircraft electrical power and lighting systems; aircraft electrical systems; aircraft electronic systems; instrument repairman, or aviation electrical mechanic apprentice, as crew leader, supervising non-technical trade personnel on aircraft electrical/maintenance tasks.

Preparation: In the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft engineering (reciprocating); 3 in introduction to AC/DC theory, and additional credit in aircraft electrical maintenance, on the basis of institutional evaluation, for a minimum total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 12 in aircraft electrical maintenance, and 2 in introduction to AC/DC theory, and additional credit in aircraft electrical maintenance, on the basis of institutional evaluation, for a minimum total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 12 in aircraft electrical maintenance, and 2 in introduction to AC/DC theory, and additional credit in aircraft electrical maintenance, on the basis of institutional evaluation, for a minimum total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 12 in aircraft electrical maintenance, and 2 in introduction to AC/DC theory, and additional credit in aircraft electrical maintenance, on the basis of institutional evaluation, for a minimum total of 16 semester hours.

Recommendation, AE3
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in beginning electrical/electronics laboratory, and 12 in aircraft electrical maintenance, and 2 in introduction to AC/DC theory, and additional credit in aircraft electrical maintenance, on the basis of institutional evaluation. Qualified to enter an apprentice training program in any electrical trade (2/77).

Recommendation, AE2
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in beginning electrical/electronics laboratory, 12 in aircraft electrical maintenance, and 2 in introduction to AC/DC theory, and additional credit in aircraft electrical maintenance, on the basis of institutional evaluation, for a minimum total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 12 in aircraft electrical maintenance, and 3 in introduction to AC/DC theory, 2 in personal supervision, and 2 in management experience on the basis of institutional evaluation, for a minimum total of 22 semester hours. Advanced standing to apprentice, electical equipment maintenance, electrical equipment maintenance, or an apprentice training program for any electrical trade, on the basis of employer or trade association performance evaluation (2/77).

Recommendation, AE1
In the vocational certificate category, 3 semester hours in beginning electrical/electronics laboratory, 12 in aircraft electrical maintenance, and 3 in introduction to AC/DC theory, and additional credit in aircraft electrical maintenance, on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 12 in aircraft electrical maintenance, and 3 in introduction to AC/DC theory, 2 in personal supervision, and 2 in management experience on the basis of institutional evaluation, for a minimum total of 22 semester hours. Advanced standing to apprentice, electical equipment maintenance, electrical equipment maintenance, or an apprentice training program for any electrical trade, on the basis of employer or trade association performance evaluation (2/77).

Recommendation, AEC
In the vocational certificate category, the recommendation is the same as that for AEI. In the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft engineering (reciprocating), 3 in introduction to AC/DC theory, and additional credit in aircraft electrical maintenance, on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 12 in aircraft electrical maintenance, and 2 in introduction to AC/DC theory, 12 in aircraft electrical maintenance, and 3 in introduction to AC/DC theory, 2 in personal supervision, and 2 in management experience on the basis of institutional evaluation, for a minimum total of 23 semester hours. Advanced standing to apprentice, electical equipment maintenance, electrical equipment maintenance, or an apprentice training program for any electrical trade, on the basis of employer or trade association performance evaluation (2/77).

NER-ADR-002
AVIATION MACHINIST'S MATE, RECIPIROCATING ENGINE MECHANIC
ADR1
ADR2
ADR1
ADRc

Exhibit Dates: 1/77-Present. Pending evaluation.
Navy Enlisted Ratings Exhibits

Ner-Af-001
Aircraft Maintenanceman, Master

Exhibit Dates: 6/71-present
Occupational Field: 5 (Aviation Maintenance/Weapons)

Career Pattern
May progress to AFCM, Master Chief Aircraft Maintenanceman (E-9), from either ADCS, Senior Chief Aviation Machinist's Mate (E-8), or AMCS (Senior Chief Aviation Structural Mechanic) (E-8).

Description
Able to perform the duties required for either ADCS (Senior Chief Aviation Machinist's Mate) or AMCS (Senior Chief Aviation Structural Mechanic), assists in statistical analyses of aircraft accident reports, formulates guidelines for safety inspections and instructions, plans, organizes, implements, and controls activities in compliance with policy statements, operating orders, and directives; forecasts future requirements, plans and initiates actions to satisfy requirements, establishes priorities, reviews and evaluates personnel, equipment, and material requirements; administers inventory, requisition, receipt, and transfer procedures for aircraft, aircraft parts, and components; monitors implementation of preventive maintenance program, serves as liaison with other Navy units; reviews and evaluates inspection records, quality control reports, and flight records to assure that proper inspection and maintenance procedures are followed; prepares staff studies and reports; develops operating budgets and monitors expenditures.

Recommendation
Use the recommendation for either ADCS (Senior Chief Aviation Machinist's Mate) in exhibit Ner-Af-001, or AMCS (Senior Chief Aviation Structural Mechanic) in exhibit Ner-Af-001.

Ner-Ag-001
Aerographer's Mate

Exhibit Dates: 6/71-present
Occupational Field: 23 (Meteorology)

Career Pattern
May progress to AGCM, Master Chief Aerographer's Mate (E-7). AGCM: Able to perform the duties required for AGCS; utilizes computer-generated global and regional weather forecasts, and provides in-depth analysis of meteorological, oceanographic, and geographic data for planning and implementation of military operations. AGCS: Able to perform the duties required for AGC; prepares oceanographic forecasts, and provides in-depth analysis of meteorological, oceanographic, and geographic data for planning and implementation of military operations.

Description
Summary: Observes, collects, records, and analyzes meteorological and oceanographic data; makes visual and instrumental observations, and studies weather, seas, and conditions. AG: Identifies the types and knows the purposes of instruments and equipment used by the weather service; operates and performs routine checks on operator's preventive maintenance for meteorological and oceanographic equipment and instruments; observes, collects, records, and prepares for transmission surface meteorological elements; plots synoptic surface charts, surface pressure charts using aviation observations, constant pressure charts, data from environmental warnings and advisories, and skew T, Log P diagrams; determines tracking data from meteorological and oceanographic satellite predict messages; applies grid to meteorological satellite pictures, operates radar and teletype equipment, uses publications and directives related to weather communications. AG2: Able to perform the duties required for AG3; checks surface observations for accuracy prior to transmission; applies meteorological fundamentals of primary secondary, and tertiary circulations of the earth's atmosphere, and pressure systems using polar and polar charts, computes astronomical and tidal data, maintains directives, publications, and climatological records, orders inventories, and disposes of meteorological and oceanographic equipment, instruments, and supplies. AGCM: Able to perform the duties required for AG3; prepares short-range (up to 24 hours) environmental forecasts; identifies and classifies weather echoes on radar; computes and analyzes pressure and wind wave, swell generation, and propagation in preparing oceanographic forecasts; analyzes and uses computer and oceanographic data, for a total of 12 semester hours. In the upper-division baccalaureate category, 1 semester hour in atmospheric physics (2/77).

Recommendation, AG1
In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 2 in meteorology laboratory (2/77).

Recommendation, AG2
In the lower-division baccalaureate/associate degree category, 3 semester hours in oceanography, 2 in meteorology laboratory, 2 in meteorology laboratory, 2 in meteorology laboratory, 2 in meteorology laboratory, 2 in oceanography, for a total of 12 semester hours. In the upper-division baccalaureate category, 1 semester hour in atmospheric physics (2/77).

Recommendation, AGC
In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in atmospheric environment, 3 in oceanography, and 1 in oceanography, for a total of 12 semester hours. In the upper-division baccalaureate category, 1 semester hour in atmospheric physics (2/77).

Recommendation, AGCS
In the lower-division baccalaureate/associate degree category, 3 semester hours in oceanography, 3 in atmospheric environment, 3 in oceanography, 3 in oceanography, and 1 in oceanography, for a total of 12 semester hours. In the upper-division baccalaureate category, 1 semester hour in atmospheric physics (2/77).
1 semester hour in atmospheric physics and 1 in measurements and data systems (2/77).

Recommendation, AGCM

In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorology, 2 in atmospheric environment, and 2 in meteorology laboratory. In the upper-division baccalaureate category, 2 in atmospheric physics, 2 in measurements and data systems, and 2 in the lower-division baccalaureate/associate degree category, 2 semester hours in atmospheric physics and 1 in measurements and data systems (2/77).

NER-AK-001

AVIATION STOREKEEPER

AK1

AK2

AK3

AK4

AK5

AKCM

Exhibit Dates: 6/71-Present.
Occupational Field: 16 (Logistics).

Career Pattern


Description

Summary: Receives, identifies, stores, and issues supply items; maintains stock control records; conducts inspections. AK3: Applies automated data processing (ADP) supply procedures; operates various office machines; receives, verifies and records requisitions; maintains materials inventories; controls inventory records; submits requisition for purchase; and maintains records, types, and files requisitions. AK4: Applies ADP supply procedures; operates various office machines; receives, verifies, and records requisitions; maintains materials inventories; controls inventory records; submits requisition for purchase; and maintains records, types, and files requisitions. AK5: Applies ADP supply procedures; operates various office machines; receives, verifies, and records requisitions; maintains materials inventories; controls inventory records; submits requisition for purchase; and maintains records, types, and files requisitions. AKCM: Applies ADP supply procedures; operates various office machines; receives, verifies, and records requisitions; maintains materials inventories; controls inventory records; submits requisition for purchase; and maintains records, types, and files requisitions.

Recommendation, AK1

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in atmospheric physics and 1 in measurements and data systems, and 2 in meteorology laboratory (2/77).

Recommendation, AK2

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in atmospheric physics and 1 in measurements and data systems, and 2 in meteorology laboratory (2/77).

Recommendation, AK3

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in atmospheric physics and 1 in measurements and data systems (2/77).

Recommendation, AK4

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in atmospheric physics and 1 in measurements and data systems (2/77).

Recommendation, AK5

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in atmospheric physics and 1 in measurements and data systems (2/77).

Recommendation, AKCM

In the vocational certificate category, the recommendation is the same as that for AKC. In the lower-division baccalaureate/associate degree category, 3 semester hours in atmospheric physics and 1 in measurements and data systems, and 2 in meteorology laboratory (2/77).

Recommendation, AKCS

In the vocational certificate category, the recommendation is the same as that for AKC. In the lower-division baccalaureate/associate degree category, 3 semester hours in atmospheric physics and 1 in measurements and data systems, and 2 in meteorology laboratory (2/77).

Recommendation, AKFM

In the vocational certificate category, the recommendation is the same as that for AKC. In the lower-division baccalaureate/associate degree category, 3 semester hours in atmospheric physics and 1 in measurements and data systems, and 2 in meteorology laboratory (2/77).

Recommendation, AKAM

In the vocational certificate category, the recommendation is the same as that for AKC. In the lower-division baccalaureate/associate degree category, 3 semester hours in atmospheric physics and 1 in measurements and data systems, and 2 in meteorology laboratory (2/77).

Navy Enlisted Ratings Exhibits

AVIATION STRUCTURAL MECHANIC, SENIOR CHIEF

AMCS

Exhibit Dates: 6/71-Present.

Occupational Field: 5 (Aviation Maintenance/Weapons).

Career Pattern

May progress from AMHC: Chief Aviation Structural Mechanic, Hydraulics (E-7), or AMEC: Chief Aviation Structural Mechanic, Safety Equipment (E-7), or AMSC: Chief Aviation Structural Mechanic, Structures (E-7). AMCS: Senior Chief Aviation Structural Mechanic (E-9).

Description

Manages, supervises, and administers airframe work centers of varying sizes, supervises aviation structural mechanics in the installation of aircraft, structures, and equipment, and supervises the installation of aircraft, structures, and equipment on a technical basis. Manages, supervises, and administers airframe work centers of varying sizes, supervises aviation structural mechanics in the installation of aircraft, structures, and equipment, and supervises the installation of aircraft, structures, and equipment on a technical basis.

Recommendation

In the vocational certificate category, use the recommendation for AMH2 (Aviation Structural Mechanical, Second Class), in exhibit NER-AMH-001, or AME1 (Aviation Structural Mechanic, Safety Equipment, First Class) in exhibit NER-AME-001, or AMSI (Aviation Structural Mechanic, Structures, Second Class) in exhibit NER-AMS-001, as appropriate. In the lower-division baccalaureate/associate degree category, 3 semester hours in safety management and 3 in principles of administration, and add 30 semester hours recommended for AMHC (Chief Aviation Structural Mechanic, Hydraulics) in exhibit NER-AMHC-001, or AMEC (Chief Aviation Structural Mechanic, Safety Equipment) in exhibit NER-AMEC-001, or AMSC (Chief Aviation Structural Mechanic, Structures) in exhibit NER-AMSC-001, as appropriate. In the upper-division baccalaureate category, 6 semester hours in safety management and 3 in principles of administration, and add 30 semester hours recommended for AMHC (Chief Aviation Structural Mechanic, Hydraulics) in exhibit NER-AMHC-001, or AMEC (Chief Aviation Structural Mechanic, Safety Equipment) in exhibit NER-AMEC-001, or AMSC (Chief Aviation Structural Mechanic, Structures) in exhibit NER-AMSC-001, as appropriate.
NER-AME-001

AVIATION STRUCTURAL MECHANIC, SAFETY EQUIPMENT
AME3
AME2
AME1
AMEC

Exhibit Dates: 6/71-Present

Occupational Field: 5 (Aviation Maintenance/Weapons)

Career Pattern
AN: Airman (E-3)
AME3: Aviation Structural Mechanic, Safety Equipment
Third Class (E-4)
AME2: Aviation Structural Mechanic, Safety Equipment
Second Class (E-5)
AME1: Aviation Structural Mechanic, Safety Equipment
First Class (E-6)
AMEC: Chief Aviation Structural Mechanic, Safety Equipment

Description

Summary: Maintains safety belts, shoulder harnesses, parachute harnesses, inflatable life vests, life rafts, anti-sinking life-preserving equipment, smoke detectors, fire extinguishers, and fire suppression systems. Performs periodic inspections of safety systems, and supervises the work of subordinates. Recognizes the effects of high noise levels on hearing, and performs the duties required for AME1; tests, installs, and repairs components of hydraulic systems, including pumps, motors, valves, gauges, and liquid oxygen systems. Performs periodic inspections of aircraft systems, including the fire detection system, emergency egress systems, air-conditioning and heating systems, and cockpit pressurization systems. Performs periodic inspections of aircraft systems, including the fire detection system, emergency egress systems, air-conditioning and heating systems, and cockpit pressurization systems. Performs periodic inspections of aircraft systems, including the fire detection system, emergency egress systems, air-conditioning and heating systems, and cockpit pressurization systems.

Recommendation, AME3
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft safety and warning systems, and 3 in aviation maintenance technology (2/77).

Recommendation, AME2
In the vocational certificate category, 12 semester hours in aircraft safety and warning systems, and 12 in aviation maintenance technology. In the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft safety and warning systems, 4 in aviation maintenance technology, and 2 in personnel supervision, for a total of 30 semester hours (2/77).

Recommendation, AME1
In the vocational certificate category, 15 semester hours in aircraft safety and warning systems, and 6 in aviation maintenance technology. In the upper-division baccalaureate/associate degree category, 15 semester hours in aircraft safety and warning systems, 3 in personnel supervision, 3 in maintenance management, and 2 in maintenance management, for a total of 26 semester hours (2/77).

Recommendation, AME
In the vocational certificate category, the recommendation is the same as that for AME1. In the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft safety and warning systems, 6 in aviation maintenance technology, 3 in personnel supervision, and 3 in maintenance management, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (2/77).

NER-AMH-001

AVIATION STRUCTURAL MECHANIC, HYDRAULICS

AMH3
AMH2
AMH1
AMHC

Exhibit Dates: 6/71-Present

Occupational Field: 5 (Aviation Maintenance/Weapons)

Career Pattern
AN: Airman (E-3)
AMH3: Aviation Structural Mechanic, Hydraulics, Third Class (E-4)
AMH2: Aviation Structural Mechanic, Hydraulics, Second Class (E-5)
AMH1: Aviation Structural Mechanic, Hydraulics, First Class (E-6)
AMHC: Chief Aviation Structural Mechanic, Hydraulics

Description

Summary: Maintains hydraulic systems, including landing gear, auxiliary power systems, and unit actuating subsystems. Performs periodic inspections of landing gear (including wheels and tires), braking systems, and associated hydraulic systems, and performs the duties required for AME1; interprets technical publications and directives; plans, organizes, and lays out work centers; maintains work center records; and prepares local reports; monitors inspection procedures to ensure that technical specifications and standards of workmanship are met; prepares quarterly schedules of preventive maintenance; maintains work center inventory records; estimates spare parts, supplies, equipment, and manpower requirements.

Recommendation, AME3
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 10 semester hours in aircraft safety and warning systems, and 3 in aviation maintenance technology (2/77).

Recommendation, AME2
In the vocational certificate category, 12 semester hours in aircraft safety and warning systems, and 12 in aviation maintenance technology. In the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft safety and warning systems, 4 in aviation maintenance technology, and 2 in personnel supervision, for a total of 30 semester hours (2/77).

Recommendation, AME1
In the vocational certificate category, 15 semester hours in aircraft safety and warning systems, and 6 in aviation maintenance technology. In the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft safety and warning systems, 3 in personnel supervision, and 2 in maintenance management, for a total of 26 semester hours (2/77).

Recommendation, AME
In the vocational certificate category, the recommendation is the same as that for AME1. In the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft safety and warning systems, 6 in aviation maintenance technology, 3 in personnel supervision, and 3 in maintenance management, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (2/77).
NAVY ENLISTED RATINGS EXHIBITS

Navy Enlisted Ratings Exhibits

NER-AMS-001
AVIATION STRUCTURAL MECHANIC, STRUCTURES
AMS3
AMS2
AMS1
AMSC

Exhibit Dates: 6/71-Present.

Occupational Field: 5 (Aviation Maintenance/Weapons).

Career Pattern

AOC: Chief Aircraft Maintenanceman (E-9).

Description

(Summary): Maintains aircraft fuselages, wings, doors, and movable surfaces, airframes, instrument panels, seats (except ejection seats), wheels, tires, controls, and mechanisms; installs and rigs flight controls; fabricates and assembles metal parts and makes minor repairs to aircraft skin; installs rivets and metal fasteners; paints; performs dry-paint inspection; performs daily preflight and postflight; and other periodic aircraft inspections. AMS3: Uses schematic diagrams, drawings, and charts; prepares layout patterns, templates and handwritten work instructions; performs daily preflight and postflight; and other periodic aircraft inspections. AMS2: Uses schematic diagrams, drawings, and charts; prepares layout patterns, templates and handwritten work instructions; performs dry-paint inspection; performs daily preflight and postflight; and other periodic aircraft inspections. AMS1: Uses schematic diagrams, drawings, and charts; prepares layout patterns, templates and handwritten work instructions; performs dry-paint inspection; performs daily preflight and postflight; and other periodic aircraft inspections. AMSC: Master Chief Aircraft Maintenanceman (E-9).

Recommendation, AMS3

In the vocational certificate category or in the lower division baccalaureate/associate degree category, 8 semester hours in airframe structures repair and 2 in aviation maintenance technology or airframe structures (2/77).

Recommendation, AMS2

In the vocational certificate category or in the lower division baccalaureate/associate degree category, 12 semester hours in airframe structures repair and 2 in aviation maintenance technology or airframe structures (2/77).

Recommendation, AMS1

In the vocational certificate category, 15 semester hours in airframe structures repair and 6 in aviation maintenance technology or airframe structures. In the lower division baccalaureate/associate degree category, 15 semester hours in airframe structures repair, 6 in aviation maintenance technology or airframe structures, 3 in personnel supervision, and 2 in maintenance management, for a total of 26 semester hours (2/77).

Recommendation, AMSC

In the vocational certificate category, the recommendation is the same as that for AMS3. In the lower division baccalaureate/associate degree category, 15 semester hours in airframe structures repair and 6 in aviation maintenance technology or airframe structures. In the lower division baccalaureate/associate degree category, 15 semester hours in airframe structures repair, 6 in aviation maintenance technology or airframe structures, 3 in personnel supervision, and 2 in maintenance management, for a total of 26 semester hours. In the upper division baccalaureate/associate degree category, 3 semester hours for field experience in management (2/77).

NER-AN-001
AIRMAN

Exhibit Dates: 6/71-Present.

Career Pattern
Airman is a general rate (Naval apprenticeship) for persons at pay grades E-1 (re-ENLISTED) to E-3 (airman apprentice), and E-3 (airman). At pay grade E-4 (petty officer third class), the person may enter any one of the following ratings: Aircrew Survival Equipmentman (PR), Aviation Antisubmarine Warfare Technician (AX), Aviation Electronics Technician (AE), Aviation Electronics Technician (AT), Aviation Fire Control Technician (AQ), Aviation Machinist's Mate (AD), Aviation Maintenance Administrationman (AO), Aviation Electrician's Mate (AM), Aviation Fire Control Technician (CF), Aviation Structural Mechanic (AM), Aviation Boatswain's Mate (AB), Aviation Support Equipment Technician (AS), Air Combatant (AC), Trademan (TD), Aviation Storekeeper (AK), Photographer's Mate (PH), Aerographer's Mate (AG), or Aviation Antisubmarine Warfare Operator (AOCM).

Description

Assists in the maintenance of aircraft, associated aeronautical equipment, and aircraft ordnance equipment, and performs equipment cleaning, and handles aircraft, performs other apprentice-level duties involved in the operation of naval aircraft afloat and ashore.

Recommendation

In the vocational certificate category or in the lower division baccalaureate/associate degree category, 2 semester hours in aviation/aerial fundamentals (2/72). NOTE: Credit for airman (AN) should be granted only after pay grade E-3 has been achieved.

NER-AO-001
AVIATION ORDINANCEMAN

AO3
AO2
AO1
AOC
AOCs
AOCM

Exhibit Dates: 6/71-Present.

Occupational Field: 5 (Aviation Maintenance/Weapons).

Career Pattern

Description

(Summary): Maintains, inspects, and repairs aircraft armament equipment and aviation ordnance (weapons) equipment, including aircraft guns, gun accessories, noncomputers, structures, 5 in personnel supervision, 3 in maintenance management, and 3 in shop management, for a total of 30 semester hours. In the upper division baccalaureate/associate degree category, 3 semester hours for field experience in management (2/77).
ing gunsights, aerial towed target equipment, small arms, ammunition, handling equipment, ammunition suspension, release, launching, and arming equipment, stores, and loads aviation ammunition, nuclear weapons, aerial mines, torpedoes, air-dropped tanks, and grenade launchers; operates small-arms ranges; supervises the operation of aviation ordnance shops and storage facilities. AO3: Prepares gun ammunition for loading, assembles and disassembles aircraft ordnance weapons; performs weapons maintenance; uses schematics, diagrams, and charts to trace systems; performs routine inspections of ordnance equipment; completes periodic maintenance data forms; forms electromechanical maintenance of air armament units, issues standards for safety ordnance missions; prepares ground support equipment; detects, removes, and controls corrosion on aircraft armament and ordnance handling equipment. AO2: Able to perform the duties required for AO3; serves as arming/dearming crew leader; supervises and coordinates crew loading, unloading, and launching of aircraft; maintains shop files, logs, and records; reviews technical publications and manuals; performs periodic aircraft preloading inspections; prepares reports on duties required for AO2; supervises the preparation of fuel, air, and gel weapons; analyzes test equipment defects, conducts on-the-job training; performs quality checks, and inspections on loaded aircraft; supervises and directs aircraft inspections; performs weekly technical inspections; coordinates preventive maintenance, troubleshooting release and installing systems. AOC: Able to perform the duties required for AO1; supervises and coordinates receipt, storage, and loading of munitions by squadrons; interprets technical publications and instructions on the handling of aviation ordnance equipment and munitions; maintains ordnance catalogues and reports; plans, organizes, and supervises aviation ordnance shops, storage facilities, and handling areas; supervises the training of special weapons loading teams; analyzes reports and prepares schedules of preventive maintenance; accounts for inventory control of personnel. AOC(S): Able to perform the duties required for AO2; supervises and coordinates all the munitions-loading crews of an airship (several squadrons or personnel) daily and provides active and direct standards and instructions; prepares correspondence and interviews, evaluates, and assigns personnel; organizes and schedules training programs; demonstrates repair techniques; conducts on-the-job training; supervises from eight to nine persons, administers long-range planned maintenance programs; monitors quality control programs; makes recommendations on utilization, capability, reliability, and operations of all airborne ordnance units. AOC(M): Able to perform the duties required for AOC(S); evaluates aviation ordnance equipment safety requirements and initiates recommendations for improvements; plans, organizes, implements, and controls activities in compliance with written statements, operation orders, and directives; forecasts future needs; initiates action to satisfy requirements as an ordnance officer; reviews and evaluates weapons, equipment, and material requirements; provides technical information and advice on the operating, maintaining, reliability, and use of aviation ordnance, aircraft armament, and related equipment; evaluates the effectiveness of special weapons team training; evaluates ordnance equipment and aviation ordnance materials; develops operating budgets and monitors expenditures.

**Recommendation, AO3**

In the vocational certificate category, 3 semester hours in applied science, 3 in applied mathematics, 3 in mechanical maintenance, 3 in basic electronics, and 3 in record keeping, and 3 in blueprint reading and schematics, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 3 in applied mathematics, and 2 in industrial safety, for a total of 8 semester hours (2/77).

**Recommendation, AO2**

In the vocational certificate category, 3 semester hours in applied science, 3 in applied mathematics, 3 in mechanical maintenance, 3 in basic electronics, 3 in record keeping, and 3 in blueprint reading and schematics, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 3 in applied mathematics, 3 in basic electronics, 3 in record keeping, and 2 in industrial safety, for a total of 14 semester hours (2/77).

**Recommendation, AO1**

In the vocational certificate category, the recommendation is the same as that for AO2. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied science, 3 in applied mathematics, 3 in basic electronics, 3 in record keeping, and 3 in industrial safety, 2 in aviation management, and 2 in personnel supervision, for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours in instruction techniques and materials, 3 in record keeping, and 3 in industrial safety, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in instructional techniques and materials (2/77).

**Recommendation, AOC**

In the vocational certificate category, the recommendation is the same as that for AO2. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 3 in applied mathematics, 3 in basic electronics, 3 in record keeping, and 3 in industrial safety, 2 in aviation management, and 2 in personnel supervision, and 2 in office management, for a total of 26 semester hours. In the upper-division baccalaureate category, 3 semester hours in instructional techniques and materials, 3 for field experience in management, and 3 in management problems, and additional credit in personnel management on the basis of institutional evaluation, for a minimum total of 9 semester hours (2/77).

**NER-AQ-001**

**AVIATION FIRE CONTROL TECHNICIAN**

<table>
<thead>
<tr>
<th>AQ3</th>
<th>AQ2</th>
<th>AQ1</th>
<th>AQC</th>
<th>AQC(S)</th>
</tr>
</thead>
</table>

**Exhibit Dates:** 6/71-Present

**Occupational Field:** 5 (Aviation Maintenance/Weapons)

**Career Pattern**

*AN: Airman (E-3).* AQ3: Aviation Fire Control Technician Third Class (E-5).* AQ2: Aviation Fire Control Technician Second Class (E-5).* AQ1: Chief Aviation Fire Control Technician (E-7).* AQC: Senior Chief Aviation Fire Control Technician (E-8).* AVMC: Master Chief Avionics Technician (E-9).*

**Description**

Serves as shop supervisor, maintains and repairs aircraft weapons control systems, including weapons control, radar, computers, doppler computing sight, gyroscopes, and related equipment, and launches guided missile equipment. NOTE: Duty assignments are designated as either O-Level (troubleshooting and replacing modular systems of aircraft) or I-Level (disassembling, repairing, and bench-testing modules); persons assigned the AQ rating receive equivalent training and must pass the same advanced examination, regardless of whether duty assignments have been O-Level or I-Level or both. AQ2: Assists in troubleshooting and repair of electrical and electronic weapons and weapons control systems (such as radar, infrared, optical, laser, and television systems; and digital computer and gyro stabilizing systems and sensors electronic and mechanical related accessories and equipment; follows standard check-out procedures to locate and repair system malfunctions; reads schematics and block diagrams; uses volt-ohm-milliammeter; applies working knowledge of hydraulic systems; completes maintenance forms and inventories parts and supplies; performs avionics corrosion control. AQ3: Able to perform the duties required for AQ2; performs troubleshooting and repair tasks not covered in standard service manuals; knows how to use oscilloscope, signal generators, and meggers; may have attended short training programs in troubleshooting and repairing specialized equipment; serves as crew leader, supervising from two to nine persons; diagnose and correct one to nine persons; diagnoses nonroutine malfunctions and malfunctions; repairs and replaces modular systems; demonstrates repair techniques; conducts on-the-job training programs; inspects and approves completed work assignments; prepares weekly schedules of preventive maintenance. AQ4: Able to perform the duties required for AQ2; serves as shop supervisor.
NAVY ENLISTED RATINGS EXHIBITS

General

31

NAVY ENLISTED RATINGS EXHIBITS

2-11

sof, supervising 15-20 persons; plans and implements safety instruction and inspection programs; prepares maintenance duty schedules; reviews and approves work orders; supervises quality control programs; provides technical assistance in aircraft accident investigations. AQCS: Able to perform the duties required for AQC; oversees three shops; serves as liaison with Navy units; administers quality control programs; prepares directives, instructions, and correspondence; advises on production, material, and training requirements; administers long-range planned maintenance program and training programs and evaluates their effectiveness; recommends changes in methods and techniques to promote safety and operational readiness.

Recommendation, AQC

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory and 2 in introduction to AC/DC theory, and additional credit in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 2 in applied physics, and 3 in introduction to AC/DC theory, and additional credit in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 8 semester hours. Advanced standing in an industrial electronics technician, communications electronics technician, or industrial instrumentation technician apprentice training program, or in an apprentice training program for any electrical trade (2/77).

Recommendation, AQ2

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 2 in applied physics, and 3 in introduction to AC/DC theory, and additional credit in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 8 semester hours. Advanced standing in an industrial electronics technician, communications electronics technician, or industrial instrumentation technician apprentice training program, or in an apprentice training program for any electrical trade (2/77).

Recommendation, AQC

In the vocational certificate category, the recommendation is the same as for AQ2. In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 17 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for AQ1 because additional skills are administrative and supervisory in nature (2/77).

Recommendation, AQCS

In the vocational certificate category, the recommendation is the same as that for AQ2. In the lower-division baccalaureate/associate degree category, 3 semester hours in beginning electrical/electronics laboratory, 2 in applied physics, 3 in introduction to AC/DC theory, 3 in personnel supervision, 3 in management, 3 in management electives, 3 in safety management, and 2 in technical writing, and additional credit in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 25 semester hours. In the upper-division baccalaureate category, 3 semester hours for a minimum total of 3 semester hours in advanced standing in an industrial electronics technician, or apprenticeship training program, or in an apprentice training program for any electrical trade (2/77).

NER-AS-001

AVIATION SUPPORT EQUIPMENT TECHNICIAN

AS1

ASC

ASCBS

ASCM

Exhibit Dates: 6/71-Present:

Occupational Field: 6 (Aviation Ground Support)

Career Pattern

May progress from: ASE2, Aviation Support Equipment Technician, Electronics, Second Class (E-5); or ASH2, Aviation Support Equipment Technician, Hydraulics and Structures, Second Class (E-5); or AS1, Aviation Support Equipment Technician, Electrical, First Class (E-5); or ASC: Chief Aviation Support Equipment Technician (E-7). ASCS: Senior Chief Aviation Support Equipment Technician (E-8); ASCM: Master Chief Aviation Support Equipment Technician (E-9).

Description

AS1: Able to perform the duties of ASE2 or ASM2 or ASH2; analyzes and diagnoses malfunctions of the following systems: hydraulics, pneumatic, electrical power generating, chassis and chassis electrical, internal-combustion engines, and gas-turbine compressors; determines corrective action, maintains shop files and technical publications; plans shop work schedules; supervises subordinates in performance of quality control inspections; prepares schedules of preventive maintenance; requisitions and is responsible for maintenance equipment. ASC: Able to perform the duties required for AS1; supervises training of personnel who operate, maintain, and repair aviation support equipment; 3 in shop management, and 2 in shop management, and 3 in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 17 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for AQ1 because additional skills are administrative and supervisory in nature (2/77).

Recommendation, ASC

In the vocational certificate category, the recommendation is the same as for AS1. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in shop management, and 3 in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 25 semester hours, or the 21 semester hours for ASH2 in exhibit NER-ASH-001, for a minimum total of 22 semester hours, or the 21 semester hours for ASM2 in exhibit NER-ASM-001, for a minimum total of 25 semester hours, as appropriate (2/77).

Recommendation, ASCS

In the vocational certificate category, the recommendation is the same as for ASC. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in shop management, and 3 in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 17 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for AQ1 because additional skills are administrative and supervisory in nature (2/77).

Recommendation, ASCM

In the vocational certificate category, the recommendation is the same as for ASCS. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in shop management, and 3 in aircraft electronics and hydraulics on the basis of institutional evaluation, for a minimum total of 25 semester hours, or the 21 semester hours for ASH2 in exhibit NER-ASH-001, for a minimum total of 22 semester hours, or the 21 semester hours for ASM2 in exhibit NER-ASM-001, for a minimum total of 25 semester hours, as appropriate (2/77).
NER-ASE-001

AVIATION SUPPORT EQUIPMENT TECHNICIAN, ELECTRICAL

ASE3

ASE2

Exhibit Dates: 6/71-present

Occupational Field: 6 (Aviation Ground Support)

NER-ASH-001

AVIATION SUPPORT EQUIPMENT TECHNICIAN, HYDRAULICS AND STRUCTURES

ASH3

ASH2

Exhibit Dates: 6/71-present

Occupational Field: 6 (Aviation Ground Support)

NER-ASH-001

AVIATION SUPPORT EQUIPMENT TECHNICIAN, HYDRAULICS AND STRUCTURES

ASH3

ASH2

Exhibit Dates: 6/71-present

Occupational Field: 6 (Aviation Ground Support)

NER-ASM-001

AVIATION SUPPORT EQUIPMENT TECHNICIAN, MECHANICAL

ASM3

ASM2

Exhibit Dates: 6/71-present

Occupational Field: 6 (Aviation Ground Support)
Description

**Summary:** Maintains and repairs electronic communications systems and in-flight navigation and detection systems in aircraft. NOTE: Duty assignments are designated as either O-Level (troubleshooting and replacing modular systems on aircraft) or I-Level (disassembling, repairing and testing electronic circuits and equipment). Persons assigned the O-Level rating and must pass the same advancement examinations, regardless of whether duty assignments have been O-Level or I-Level or both.

**Technician First Class (E-6).** ATC: Chief Aviation Electronics Technician; exhibits Dates: 6/71-Present. Occupational Field: 5 (Aviation Maintenance/Weapons). Description: Aeronautics Technician. **Recommendation, ATC:** Able to perform the duties required for ATC; supervises 15-20 persons; plans and implements safety instruction and inspection programs; prepares maintenance duty schedules; prepares periodic or recurring reports; performs quarterly schedules of preventive maintenance; supervises quality control programs; provides technical assistance in aircraft accident investigation. **ATCS:** Able to perform the duties required for ATCS; supervises from eight to nine persons; diagnoses nonroutine malfunctions and demonstrates repair techniques; inspect and approves completed work assignments, including the installation of new parts and components; conducts on-the-job training program and maintains training records; prepares weekly schedule of preventive maintenance. **Recommendation, ATCS:** Able to perform the duties required for ATCS; supervises safety inspection and inspection programs; prepares maintenance duty schedules; prepares periodic or recurring reports; performs quarterly schedules of preventive maintenance; supervises quality control programs; provides technical assistance in aircraft accident investigation. **Exhibit Dates: 6/71-Present. Occupational Field: 5 (Aviation Maintenance/Weapons).**

**NER-AV-001**

**AVIONICS TECHNICIAN, MASTER CHIEF**

**Exhibit Dates:** 6/71-Present.

**Occupational Field:** 5 (Aviation Maintenance/Weapons).

**Career Pattern:** May progress to AVCM, Master Chief Avionics Technician (E-9), from AXCS.
**NER-AW-001**

**AVIATION ANTISUBMARINE WARFARE OPERATOR**

AW3
AW2
AW1
AWC
AWCS
AWCM

**Exhibit Dates:** Pending evaluation.

**NER-AX-001**

**AVIATION ANTISUBMARINE WARFARE TECHNICIAN**

AX3
AX2
AX1
AXC
AXCS

**Exhibit Dates:** Pending evaluation.

**NER-AZ-001**

**AVIATION MAINTENANCE ADMINISTRATOR**

AZ2
AZ1
AZC
AZCS
AZCM

**Exhibit Dates:** 6/71-Present.

**Occupational Field:** 5 (Aviation Maintenance/Weapons).

**Career Pattern**

**AN:** Airman (E-3) AZ2: Aviation Maintenance Administrationman Third Class (E-4).

**AZ1:** Aviation Maintenance Administrationman Second Class (E-5). AZ1: Aviation Maintenance Administrationman First Class (E-6).

**AZCS:** Senior Chief Aviation Maintenance Administrationman (E-7).

**Description**

**Summary:** Performs or supervises clerical duties including typewriting, office machine operations, preparation of correspondence and reports, filing, and records administration for the Navy aviation maintenance program. AZ2: Types correspondence and reports (a straight-copy typing rate of at least 20 words per minute is required); uses duplicating or photocopy equipment; maintains files and records. AZ2: Able to perform the duties required for AZ2; prepares, verifies, and maintains aircraft logbooks and records; prepares and processes work requests; determines the need for updating aeronautical technical libraries and distributes updates. AZ1: Able to perform the duties required for AZ1; supervises administrative procedures of the office; analyzes data; prepares data in narrative, tabular, chart, or graphic form. AZC: Able to prepare the duties required for AZ1; supervises administrative procedures of the office; analyzes data; prepares data in narrative, tabular, chart, or graphic form. AZCS: Able to perform the duties required for AZC; determines personnel and material needs; prepares directives and instructions for improving operations; develops a program for interviewing, evaluating, and assigning personnel for maximum utilization; organizes, schedules, and evaluates training programs; develops objectives for preventive maintenance and quality assurance programs; coordinates the preparation and dissemination of safety instructions applicable to aviation maintenance; provides information and advice on utilization, capabilities, reliability, and operations. AZCM: Able to perform the duties required for AZCM.

**Recommendation, AZ2**

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in office machines, 2 in filing, and 2 in clerical office procedures, and additional credit in typewriting on the basis of institutional evaluation, for a minimum total of 6 semester hours (2/77).

**Recommendation, AZ1**

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in office machines, 2 in filing, and 2 in clerical office procedures, and additional credit in typewriting on the basis of institutional evaluation, for a minimum total of 10 semester hours (2/77).

**Recommendation, AZ3**

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in office machines, 2 in filing, and 2 in clerical office procedures, and additional credit in typewriting on the basis of institutional evaluation, for a total of 13 semester hours (2/77).

**Recommendation, AZCM**

In the vocational certificate category, 2 semester hours in office machines, 2 in filing, 3 in clerical office procedures, 3 in record keeping and 3 in office management, and additional credit in typewriting on the basis of institutional evaluation, for a minimum total of 16 semester hours (2/77).

**Recommendation, AZC**

In the vocational certificate category, 2 semester hours in office machines, 2 in filing, 3 in clerical office procedures, 3 in record keeping and 3 in office management, and additional credit in typewriting on the basis of institutional evaluation, for a minimum total of 16 semester hours (2/77).

**Recommendation, AZCS**

In the vocational certificate category, the recommendation is the same as that for AZC. In the lower-division baccalaureate/associate degree category, 2 semester hours in office machines, 2 in filing, 3 in clerical office procedures, 3 in record keeping, 3 in office management, 2 in business communications, and 2 in personnel supervision, and additional credit in typewriting on the basis of institutional evaluation, for a minimum total of 17 semester hours. In the upper division baccalaureate category, 3 semester hours and for field experience in management (2/77).

**Recommendation, AZCM**

In the vocational certificate category, 2 semester hours in office machines, 2 in filing, 3 in clerical office procedures, 3 in
record keeping, 3 in office management, 2 in business communications, and 3 in technical writing, and additional credit in typewriting on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in office management, 3 in clerical office procedures, 3 in record keeping, 3 in office management, 2 in business communications, 3 in personnel supervision, 3 in management problems, 3 in technical writing, and additional credit in typewriting on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the upper-division baccalaureate/associate degree category, 3 semester hours for field experience in management, and 3 in management problems, and additional credit in human relations and personnel management on the basis of institutional evaluation, for a minimum total of 6 semester hours (2/77).
RECOMMENDATION, BMCM

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for BMCS. In the upper-division baccalaureate category, BU1 is recommended for team and crew members; BU2 for 12 semester hours (12/76). For BU3, 12 semester hours (12/76). For BU2, 12 semester hours for a minimum total of 12 semester hours (12/76).

NER-BT-001

BOILER TECHNICIAN

BT3
BT2
BT1
BTC
BPCS
BTCM
Exhibit Dates: 6/72-Present.

Description

SUMMARY: Performs tasks required for construction, maintenance, and repair of wooden, concrete, and masonry structures, concrete pavement, and waterproofing and underdrainage systems. BU3: Places reinforcing steel; erects form members and strip forms; installs asphalt and vinyl floor coverings, interior wall coverings, door and window trim, moldings and glass; mixes, places, and finishes concrete; constructs masonry, metal, light wood frame, and timber structures; operates and performs operator maintenance on assigned vehicles and on diesel and gas driven air compressors and portable generators; performs calculations for simple areas and volumes; identifies and interprets grade and site stakes. BU2: Able to perform the duties required for BU3; prepares and maintains blueprint reading, and 2 in equipment operation and maintenance, for a total of 15 semester hours. BU1, in the lower-division baccalaureate/associate degree category, 1 semester hour in construction materials and 1 in construction techniques (1/77).

Recommendation

BU3
BU2
BU1
BUC
BUCS
BTCM

NER-BU-001

BUILDER

BU3
BU2
BU1
BUC
BUCS
Exhibit Dates: 6/72-Present.

Description

SUMMARY: Performs tasks required for construction, maintenance, and repair of wooden, concrete, and masonry structures, concrete pavement, and waterproofing and underdrainage systems. BU3: Places reinforcing steel; erects form members and strip forms; installs asphalt and vinyl floor coverings, interior wall coverings, door and window trim, moldings and glass; mixes, places, and finishes concrete; constructs masonry, metal, light wood frame, and timber structures; operates and performs operator maintenance on assigned vehicles and on diesel and gas driven air compressors and portable generators; performs calculations for simple areas and volumes; identifies and interprets grade and site stakes. BU2: Able to perform the duties required for BU3; prepares and maintains blueprint reading, and 2 in equipment operation and maintenance, for a total of 15 semester hours. BU1, in the lower-division baccalaureate/associate degree category, 1 semester hour in construction materials and 1 in construction techniques (1/77).

Recommendation

BU3
BU2
BU1
BUC
BUCS
BTCM

NER-CE-001

CONSTRUCTION ELECTRICIAN

CE3
CE2
CE1
CEC
CECS
Exhibit Dates: 6/72-Present.

Description

SUMMARY: Plans, supervises, and performs tasks required to install, operate, service, and overhaul electric generating and distribution systems, wire communication systems, and associated equipment. CE3: ERECTS AND INSTALLS BLDG. ELECTRIC, PLUMB, AND HVAC EQUIPMENT. CE2: Performs pre-start checks and operator maintenance; performs preventive maintenance and repairs on electrical power tools, appliances, and equipment, and on interior wiring systems, power distribution systems, and interior field telephone systems. CE1: Able to perform the duties required for CE3; draws simple shop drawings and sketches; reads and works from construction drawings and specifications; performs field maintenance, servicing, and repair work on electrical equipment, and establishes and maintains electrical systems; and performs interior electrical installation. CEC: Able to perform the duties required for CE3; installs advanced-base type generators and distribution panels, public address equipment, electrical conduits, wiring systems, and automatic controls for boilers and for
air-conditioning and refrigeration equip- ment; operates, performs pre-start checks and operator maintenance on au- gur trunks and bucket trucks; maintains and re- pairs tactical field telephones, appliances, and equipment; maintains and repairs controls for boilers and for air-conditioning and refrigeration systems, distribution sys- tems, and public address systems. C2/E

- Able to perform the duties required for C2/E; prepares as-built drawings; prepares work progress and material usage reports; conducts inspections; troubleshoots systems; performs technical maintenance and repair; calibrates automatic controls; compiles load require- ments. CEC: Able to perform the duties required for CEC; prepares letters, notes, instruc- tions, and reports; assigns safety pro- gram; assigns personnel; supervises and co- ordinates work and to a unit; pro- vides technical advice and assists in the maintenance and cost control program. CECs: Able to perform the duties required for CEC; prepares job instructions and procedures for attaining organizational objectives; establishes and implements a program to assure maximum utilization of personnel and equipment; directs the operation and maintenance of all facilities and equipment used in the public works department; organizes, schedules, and evaluates training programs.

Recommendation, CEC

In the vocational certificate category, 3 semester hours in basic electricity and 3 in introduction to construction. In the upper-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in personnel supervision, 2 in electrical problems (troubleshooting), 2 in blueprint reading, 2 in shop management, and 1 in safety management, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in basic electricity, 2 in shop management, and 1 in safety management, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel supervision, 1 in records administration, and 1 in safety management, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel supervision, 2 in electrical problems (troubleshooting), 2 in blueprint reading, 2 in shop management, and 1 in safety management, for a total of 15 semester hours.

Recommendation, CECs

In the vocational certificate category, the recommendation is the same as that for CEC. In the lower-division baccalaureate/ associate degree category, 3 semester hours in basic electricity, 3 in personnel supervision, 2 in electrical construction laboratory, 2 in electrical problems (troubleshooting), 2 in blueprint reading, 2 in shop management, and 1 in safety management, for a total of 16 semester hours. In the upper-division baccalaureate/ associate degree category, 3 semester hours in personnel supervision, 1 in records administration, and 1 in safety management, for a total of 16 semester hours.
Exhibit Dates: Pending evaluation.

NER-CS-001

Constructionman

Exhibit Dates: 6/71-Present.

Career Pattern

Constructionman (CN) is a general rate (Naval apprenticeship) for persons at pay grade E-1 ( recruit), E-2 (constructionman apprentice), and E-3 (constructionman). At pay grade E-3, the constructionman is also responsible for the pay grades E-4 (constructionman third class), and E-5 (constructionman second class). The constructionman may enter any one of the following ratings: Builder (BU), Construction Electrician (CE), Construction Mechanic (CM), Construction Engineer (CEA), Construction Mechanic Operator (CMO), Steelworker (SW), or Utilityman (UY).

Description

Is introduced to all phases of construction work, including construction equipment operation and equipment maintenance, surveying and drafting, site preparation and earthwork, concrete and masonry, steelwork, carpentry and painting, utilities, and tools; understands the mission of the various operating units that make up the Naval construction force; reads simple sketches used in construction; has basic knowledge of map and compass techniques; knows hand signals for construction equipment operation; uses and maintains common measuring, cutting, lining, cleaning, manual excavating, and portable power tools; paints with brushes and rollers; and understands safety requirements of construction work. Directs construction equipment and tools, fuels, paints, and electricity; knows first-aid procedures for controlling bleeding, preparing and administering improvised splints, administering artificial respiration, treating heat exhaustion and heat stroke, transporting injured persons, and immediate treatment for shock; can classify and administer first-aid treatment of burns.

Recommendation

In the vocational certificate category, 3 semester hours in introduction to construction procedures; 1 in map and compass reading and interpretation, and 1 in first aid, for a total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in diesel, truck, or automotive mechanics, 3 in shop practices, 3 in personnel supervision, 2 in records administration, and 1 in care and use of tools, for a total of 18 semester hours. Journeyman status (defined as 876 clock hours of experience and 576 contact hours of related instruction) as an automotive, diesel, or truck mechanic (1/77).

Recommendation, CMCS

In the vocational certificate category, 18 semester hours in diesel, truck, or automotive mechanics, 3 in leadership, and 1 in care and use of tools, for a total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in diesel, truck, or automotive mechanics, 3 in shop practices, 3 in personnel supervision, 2 in records administration, and 1 in care and use of tools, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in human relations, or truck, or truck mechanic apprentice training program, the recommendation is the same as that for CMCS (1/77).

NER-DK-001

Disbursing Clerk

Exhibit Dates: Pending evaluation.

NER-DM-001

Illustrator Draftsman

Exhibit Dates: Pending evaluation.

NER-DP-001

Data Processing Technician

Exhibit Dates: Pending evaluation.

NER-DS-001

Data Systems Technician

Exhibit Dates: Pending evaluation.
NER-DT-001

DENTAL TECHNICIAN

DT3
DT2
DT1
DTC
DTCM

Exhibit Dates: Pending evaluation.

NER-EA-001

ENGINEERING AID

EA3
EA2
EA1
EAC
EACS

Exhibit Dates: 6/71-Present.

Occupational Field: 13 (Construction).

Career Pattern
CN: Constructionman (E-3). EA1: Engineering Aid Third Class (E-5). EA2: Engineering Aid Second Class (E-7). EA3: Chief Engineering Aid (E-7). EACS: Senior Chief Engineering Aid (E-8). CUCM: Master Chief Constructionman (E-9).

Description
Summary: Plans, supervises, and performs tasks required in construction surveying, drafting, planning and estimating, and quality control. EA3: Traces and revises drawings; prepares charts and sketches, places construction stakes and other references; uses standard surveying instruments; performs basic calculations of regular areas and volumes; and performs simple tests on soils and concrete materials. EA2: Able to perform the duties required for EA3; draws mechanical layouts of service and building utilities and of distribution and collection systems; forms plans, sketches, or specifications; performs basic calculations of regular areas and volumes; and performs simple tests on soils and concrete materials. EA1: Able to perform the duties required for EA3; draws simple shop drawings and sketches; reads grade stake markings; computes working loads for lines and wire rope; uses slings, spreaders, cargos nets, and hooks; determines optimum working distances for construction equipment with the exception of scrapers; changes attachments and adapts cable/hydraulic assemblies on tractors (wheeled and crawler) with front and rear mounted and towed attachments; maintains, dismounts, repairs, and mounted tires; operates and performs operator maintenance on portable rotary rock drill, self-propelled compaction equipment, wheel and crawler tractors, wheel and crawler front-end loaders, warehouse and rough-terrain forklifts up to 6,000 pound capacity, passenger-carrying vehicles and trucks through 5-ton, including truck-trailer. E02: Able to perform the duties required for CN (Constructionman); reads workshop drawings and sketches; reads grade stake markings; computes working loads for lines and wire rope; uses slings, spreaders, cargo nets, and hooks; determines optimum working distances for construction equipment with the exception of scrapers; changes attachments and adapts cable/hydraulic assemblies on tractors (wheeled and crawler) with front and rear mounted and towed attachments; maintains, dismounts, repairs, and mounted tires; operates and performs operator maintenance on portable rotary rock drill, self-propelled compaction equipment, wheel and crawler tractors, wheel and crawler front-end loaders, warehouse and rough-terrain forklifts up to 6,000 pound capacity, passenger-carrying vehicles and trucks through 5-ton, including truck-trailer. E03: Able to perform the duties required for CN (Constructionman); reads workshop drawings and sketches; reads grade stake markings; computes working loads for lines and wire rope; uses slings, spreaders, cargo nets, and hooks; determines optimum working distances for construction equipment with the exception of scrapers; changes attachments and adapts cable/hydraulic assemblies on tractors (wheeled and crawler) with front and rear mounted and towed attachments; maintains, dismounts, repairs, and mounted tires; operates and performs operator maintenance on portable rotary rock drill, self-propelled compaction equipment, wheel and crawler tractors, wheel and crawler front-end loaders, warehouse and rough-terrain forklifts up to 6,000 pound capacity, passenger-carrying vehicles and trucks through 5-ton, including truck-trailer. E04: Able to perform the duties required for CN (Constructionman); reads workshop drawings and sketches; reads grade stake markings; computes working loads for lines and wire rope; uses slings, spreaders, cargo nets, and hooks; determines optimum working distances for construction equipment with the exception of scrapers; changes attachments and adapts cable/hydraulic assemblies on tractors (wheeled and crawler) with front and rear mounted and towed attachments; maintains, dismounts, repairs, and mounted tires; operates and performs operator maintenance on portable rotary rock drill, self-propelled compaction equipment, wheel and crawler tractors, wheel and crawler front-end loaders, warehouse and rough-terrain forklifts up to 6,000 pound capacity, passenger-carrying vehicles and trucks through 5-ton, including truck-trailer.

NER-EN-001

ENGINEER

EN3
EN2
EN1
ENC
ENC3
ENC2
ENC1

Exhibit Dates: Pending evaluation.

NER-EO-001

EQUIPMENT OPERATOR

EO3
EO2
EO1
EOC
EOCS

Exhibit Dates: Pending evaluation.

NER-EM-001

ELECTRICIAN'S MATE

EM3
EM2
EM1
EMC
EMCS
EMCM

Exhibit Dates: Pending evaluation.
in excavating, paving, grading, hauling, and material handling operations; makes work assignments; uses Critical Path Method (CPM) sequence; is a quarry operator and construction inspector; operates and performs operator maintenance on asphalt and concrete batch plants; computes volume of embankment sections; estimates manpower, material, and equipment needs from drawings and specifications; carries out procedures to minimize the adverse effects of oil and fuel spillage and of fuel combustion on air quality. EOC. Able to perform the duties required for E01, drafts letters, reports, and instructions; coordinates and supervises the work performed by unit personnel; provides technical advice on plans and specifications and on equipment operation, construction, and maintenance techniques; implements maintenance and cost control programs; prepares and maintains project progress charts; organizes and controls the site deployment of materials and equipment. E005. Able to perform the above, for a total of 12 semester hours (1/77).

Recommendation, E005

In the vocational certificate category, the recommendation is the same as that for E01. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction equipment operation, 3 in operations management, 3 in personnel supervision, and 2 in mechanical maintenance, for a total of 14 semester hours (1/77).

Recommendation, E005

In the vocational certificate category, the recommendation is the same as that for E01. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction equipment operation, 3 in operations management, 3 in personnel supervision, and 2 in mechanical maintenance, for a total of 14 semester hours (1/77).

Recommendation, E005

In the vocational certificate category, the recommendation is the same as that for E01. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction equipment operation, 3 in operations management, 3 in personnel supervision, and 2 in mechanical maintenance, for a total of 14 semester hours (1/77).

NER-EQ-001

EQUIPMENTMAN, MASTER CHIEF

EQCM


Occupational Field: 13 (Construction).

Career Pattern

May progress to EQCM, Master Chief Equipmentman (E-9), from either E0CS, Senior Chief Equipment Operator (E-8), or CMCS, Senior Chief Construction Mechanic (E-8).

Description

Able to perform the duties required for E001. Drafts letters, reports, and instructions; coordinates and supervises the work performed by unit personnel; provides technical advice on plans and specifications and on equipment operation, construction, and maintenance techniques; implements maintenance and cost control programs; prepares and maintains project progress charts; organizes and controls the site deployment of materials and equipment. In the vocational certificate category, the recommendation is the same as that for E01. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction equipment operation, 3 in operations management, 3 in personnel supervision, and 2 in mechanical maintenance, for a total of 14 semester hours (1/77).

Recommendation, E005

In the vocational certificate category, the recommendation is the same as that for E01. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction equipment operation, 3 in operations management, 3 in personnel supervision, and 2 in mechanical maintenance, for a total of 14 semester hours (1/77).
NER-FTM-001
FIRE CONTROL TECHNICIAN, SURFACE MISSILE FIRE CONTROL
FTM3
FTM2
FTM1
FTMC
Exhibit Dates: Pending evaluation.

NER-GM-001
GUNNER'S MATE
GMCS
GMCM
Exhibit Dates: Pending evaluation.

NER-GMG-001
GUNNER'S MATE, GNS
GMG3
GMG2
GMG1
GMGC
Exhibit Dates: Pending evaluation.

NER-GMM-001
GUNNER'S MATE, MISSILES
GMM3
GMM2
GMM1
GMMC
Exhibit Dates: Pending evaluation.

NER-GMT-001
GUNNER'S MATE TECHNICIAN
GMT3
GMT2
GMT1
GMTC
GMTCS
GMTCM
Exhibit Dates: Pending evaluation.

NER-GS-001
GAS TURBINE SYSTEM TECHNICIAN
GS3
GS2
GSJ
GSC
GSCS
GSCM
Exhibit Dates: Pending evaluation.

NER-HM-001
HOSPITAL CORPSMAN
HM3
HM2
HM1
HMC
HMCS
HMCM
Exhibit Dates: Pending evaluation.

NER-HT-001
HULL MAINTENANCE TECHNICIAN
HT3
HT2
HT1
HTC
HTCS
HTCM
Exhibit Dates: Pending evaluation.

NER-IC-001
INTERIOR COMMUNICATIONS ELECTRICIAN
IC3
IC2
IC1
ICC
ICCS
Exhibit Dates: Pending evaluation.

NER-IM-001
INSTRUMENTMAN
IM3
IM2
IM1
IMC
IMCS
Exhibit Dates: Pending evaluation.

NER-IM-001
INSTRUMENTMAN
IM3
IM2
IM1
IMC
IMCS
Exhibit Dates: Pending evaluation.

NER-IS-001
INTELLIGENCE SPECIALIST
IS3
IS2
IS1
ISC
ISC5
ISCM
Exhibit Dates: Pending evaluation.

NER-JO-001
JOURNALIST
JO3
JO2
JO1
JOC
JOCS
JOCM
Exhibit Dates: Pending evaluation.

NER-HM-001
HOSPITAL CORPSMAN
HM3
HM2
HM1
HMC
HMCS
HMCM
Exhibit Dates: Pending evaluation.

NER-HM-001
HOSPITAL CORPSMAN
HM3
HM2
HM1
HMC
HMCS
HMCM
Exhibit Dates: Pending evaluation.

NER-HM-001
HOSPITAL CORPSMAN
HM3
HM2
HM1
HMC
HMCS
HMCM
Exhibit Dates: Pending evaluation.

NER-IC-001
INTERIOR COMMUNICATIONS ELECTRICIAN
IC3
IC2
IC1
ICC
ICCS
Exhibit Dates: Pending evaluation.

NER-IM-001
INSTRUMENTMAN
IM3
IM2
IM1
IMC
IMCS
Exhibit Dates: Pending evaluation.

NER-IM-001
INSTRUMENTMAN
IM3
IM2
IM1
IMC
IMCS
Exhibit Dates: Pending evaluation.

NER-IS-001
INTELLIGENCE SPECIALIST
IS3
IS2
IS1
ISC
ISC5
ISCM
Exhibit Dates: Pending evaluation.

NER-JO-001
JOURNALIST
JO3
JO2
JO1
JOC
JOCS
JOCM
Exhibit Dates: Pending evaluation.
Recommendation, LNI
In the vocational certificate category, 3 semester hours in typing, 3 in office procedures, 3 in military legal practices and procedures, and 6 in machine shorthand, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication (written), 3 in typing, 3 in office procedures, 3 in military legal practices and procedures, 3 in office management, and 6 in social studies, for a total of 12 semester hours (12/76).

Recommendation, LNC
In the vocational certificate category, the recommendation is the same as that for LNI. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication (written), 3 in typing, 3 in office procedures, 3 in military legal practices and procedures, 3 in office management, 3 in social studies, and additional credit for field experience in management on the basis of institutional evaluation, for a minimum total of 20 semester hours (12/76).

Recommendation, LNCM
In the vocational certificate category, the recommendation is the same as that for LNI. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication (written), 3 in typing, 3 in office procedures, 3 in military legal practices and procedures, 3 in office management, and 6 in social studies, and additional credit for field experience in management on the basis of institutional evaluation, for a minimum total of 25 semester hours. In the upper-division baccalaureate category, 2 semester hours in judicial process and administration, 2 in legal bibliography, and additional credit in business courses on the basis of institutional evaluation, for a minimum total of 4 semester hours (12/76).

Recommendation, LNCM
In the vocational certificate category, the recommendation is the same as that for LNI. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication (written), 2 in personnel supervision, 3 in typing, 3 in office procedures, 3 in military legal practices and procedures, 3 in office management, 3 in social studies, and additional credit for field experience in management on the basis of institutional evaluation, for a minimum total of 28 semester hours. In the upper-division baccalaureate category, 2 semester hours in judicial process and administration, 2 in legal bibliography, and 3 in management problems, and additional credit in human practices and social status, and in personnel management, and for a practicum in management, on the basis of institutional evaluation, for a minimum total of 7 semester hours (12/76).
NAVFAC 6020.1D

NAVY ENLISTED RATINGS EXHIBITS

2-23

Able to perform the duties required for NCCS: Able to perform the duties required for OSCM (RDCM): Able to perform the duties required for OSCS (RDCS): Able to perform the duties required for OSCM (RDCM): Able to perform the duties required for OSCS (RDCS): Able to perform the duties required for OSCM (RDCM): Able to perform the duties required for OSCS (RDCS):

Exhibit Dates: 6/72-Present. Note: Until 6/73, the title of this rating was Radarman (RD).

OCCUPATIONAL FIELD: 2 (Ship Operations).

Career Pattern

SN: Seaman (E-3). OS3 (RD3); Operations Specialist Third Class (Radarman Third Class) (E-4). OS2 (RD2); Operations Specialist Second Class (Radarman Second Class) (E-3). OSI (RD1); Operations Specialist First Class (Radarman/First Class) (E-6). OSC (RDC); Chief Operations Specialist (Chief Radarman) (E-7). OSCS (RDCS): Senior Chief Operations Specialist (Senior Chief Radarman) (E-8). OSCM (RDCM): Master Chief Operations Specialist (Master Chief Radarman) (E-9).

Description:

Summary: Operates radar and associated equipment; identifies and maintains a display (plot) of the movement of ships, aircraft, missiles, and natural objects detected by observing a radar; maintains a radar plot of the ship's position; enters data into the ship's navigation systems; evaluates information collected by radar and appropriately disseminates it; performs routine preventive maintenance on radar equipment; operates radiotelephones; OS3 (RD3): Operates a radar/console screen, observing objects detected by the radar and disseminating the information to the command on the radar display. The objects detected, determines their movement, and disseminates this information to users by internal communication systems; operates radiotelephones; maintains current display of objects detected; determines own ship's position on nautical charts using range, bearing, and standard navigational symbols; changes given positions into grid coordinates; knows the functions and interrelationships of the modulator, receiver, amplifiers, control, and indicator units; reads electronic block diagrams; solves maneuvering board problems for course, speed, closest point of approach, track, and distance; maintains electronic devices; OS1 (RD1): Able to perform the duties required for OSP3 (RD3); tests radar and associated electronic equipment; supervises the performance of plotters, radiotelephone operators, radar operators, and other members of the watch section; prepares weekly schedules of preventive maintenance. OSC (RDC): Able to perform the duties required for OSCS (RDCS); prepares and monitors budgets and monitors expenditures.

1. Able to perform the duties assigned for a total of 25 semester hours; if the duty assignment was career counselor, additional credit in applied psychology, in community relations, for a total of 17 semester hours (12/76).

Recommenation, NCCM

In the vocational certificate category, the recommendation is the same as that for

NCI. In the lower-division baccalaureate/associate degree category, 1 semester hour in applied psychology, 1 in community relations, 2 in interviewing techniques, 3 in communication (speech), 3 in communication (written), and 3 in career information and counseling, for a total of 17 semester hours (12/76).

5. Able to perform the duties assigned for a total of 25 semester hours; if the duty assignment was drugs and alcohol rehabilitation counselor, additional credit in applied psychology, psychological counseling theory and techniques, behavior crisis intervention, and drugs and alcohol abuse on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in problems in human relations (12/76).

Recommendation, NCC

In the vocational certificate category, the recommendation is the same as that for

NCI. In the lower-division baccalaureate/associate degree category, 1 semester hour in applied psychology, 1 in community relations, 2 in interviewing techniques, 3 in communication (speech), 3 in communication (written), and 3 in career information and counseling, for a total of 25 semester hours; if the duty assignment was career counselor, additional credit in applied psychology, in community relations, for a total of 17 semester hours (12/76).

Recommendation, NCCS

In the vocational certificate category, the recommendation is the same as that for

NCI. In the lower-division baccalaureate/associate degree category, 1 semester hour in applied psychology, 1 in community relations, 3 in communication (speech), 3 in communication (written), and 3 in career information and counseling, for a total of 25 semester hours; if the duty assignment was drugs and alcohol rehabilitation counselor, additional credit in applied psychology, psychological counseling theory and techniques, behavior crisis intervention, and drugs and alcohol abuse on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in problems in human relations (12/76).

Recommendation, NCCM

In the vocational certificate category, the recommendation is the same as that for

NCI. In the lower-division baccalaureate/associate degree category, 1 semester hour in applied psychology, 1 in community relations, 2 in interviewing techniques, 3 in communication (speech), 3 in communication (written), and 3 in career information and counseling, for a total of 25 semester hours; if the duty assignment was career counselor, additional credit in applied psychology, in community relations, for a total of 17 semester hours (12/76).

NER-OHM-001

OPTICALMAN

OM3

OM2

OM1

OMC

OMCS

Exhibit Dates: Pending evaluation.

NER-OOS-001

OPERATIONS SPECIALIST

OS3

OS2

OS1

OSCS

OSCM

Exhibit Dates: 6/72-Present. Note: Until 6/73, the title of this rating was Radarman (RD).

OCCUPATIONAL FIELD: 2 (Ship Operations).

Career Pattern

SN: Seaman (E-3). OS3 (RD3); Operations Specialist Third Class (Radarman Third Class) (E-4). OS2 (RD2); Operations Specialist Second Class (Radarman Second Class) (E-3). OSI (RD1); Operations Specialist First Class (Radarman/First Class) (E-6). OSC (RDC); Chief Operations Specialist (Chief Radarman) (E-7). OSCS (RDCS): Senior Chief Operations Specialist (Senior Chief Radarman) (E-8). OSCM (RDCM): Master Chief Operations Specialist (Master Chief Radarman) (E-9).

Description:

Summary: Operates radar and associated equipment; identifies and maintains a display (plot) of the movement of ships, aircraft, missiles, and natural objects detected by observing a radar; maintains a radar plot of the ship's position; enters data into the ship's navigation systems; evaluates information collected by radar and appropriately disseminates it; performs routine preventive maintenance on radar equipment; operates radiotelephones; OS3 (RD3): Operates a radar/console screen, observing objects detected by the radar and disseminating the information to the command on the radar display. The objects detected, determines their movement, and disseminates this information to users by internal communication systems; operates radiotelephones; maintains current display of objects detected; determines own ship's position on nautical charts using range, bearing, and standard navigational symbols; changes given positions into grid coordinates; knows the basic functions and interrelationships of the modulator, receiver, amplifiers, control, and indicator units; reads electronic block diagrams; solves maneuvering board problems for course, speed, closest point of approach, track, and distance; maintains electronic devices; OS1 (RD1): Able to perform the duties required for OSP3 (RD3); tests radar and associated electronic equipment; supervises the performance of plotters, radiotelephone operators, radar operators, and other members of the watch section; prepares weekly schedules of preventive maintenance. OSC (RDC): Able to perform the duties required for OSCS (RDCS); prepares and monitors budgets and monitors expenditures.
### NAVY ENLISTED RATINGS EXHIBITS

in seamanship and 2 in basic electronics (12/76).

**Recommendation, OS2 (RD2)**

In the vocational certificate category, 6 semester hours in radar operations, 3 in applied mathematics, 3 in seamanship, 3 in basic electronics, 3 in coastwise navigation and piloting (radar navigation), and 1 in record keeping, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship, 3 in basic electronics, 3 in coastwise navigation and piloting (radar navigation), 1 in record keeping, and 1 in personnel supervision, for a total of 11 semester hours (12/76).

**Recommendation, OS1 (RD1)**

In the vocational certificate category, 6 semester hours in radar operations, 3 in applied mathematics, 3 in seamanship, 3 in basic electronics, 3 in coastwise navigation and piloting (radar navigation), and 2 in record keeping, for a minimum total of 20 semester hours; if designated as a qualified air controller, additional credit in air traffic control on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship, 3 in basic electronics, 3 in coastwise navigation and piloting (radar navigation), 2 in record keeping, and 2 in professional supervision, for a minimum total of 13 semester hours; if designated as a qualified air controller, additional credit in air traffic control on the basis of institutional evaluation (12/76).

**Recommendation, OSC (RDC)**

In the vocational certificate category, the recommendation is the same as that for OS1 (RD1). In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship, 3 in basic electronics, 3 in coastwise navigation and piloting (radar navigation), 3 in personnel supervision, 2 for field experience in management, and 2 in record keeping, for a minimum total of 17 semester hours; if designated as a qualified air controller, additional credit in air traffic control on the basis of institutional evaluation (12/76).

**Recommendation, OSC (RDCM)**

In the vocational certificate category, the recommendation is the same as that for OSCM (RDCM). In the lower-division baccalaureate/associate degree category, 3 semester hours in seamanship, 3 in basic electronics, 3 in coastwise navigation and piloting (radar navigation), 3 in personnel supervision, 3 for field experience in management, 3 in management electives, and 2 in record keeping, for a minimum total of 20 semester hours; if designated as a qualified air controller, additional credit in air traffic control on the basis of institutional evaluation (12/76).

**Recommendation, OOT (RCM)**

In the vocational certificate category, the recommendation is the same as that for OOTM (RCM). In the lower-division baccalaureate/associate degree category, 6 semester hours for a prank in management and additional credit in human relations on the basis of institutional evaluation (12/76).

**Recommendation, OOTM (RCM)**

In the vocational certificate category, the recommendation is the same as that for OSCM (RDCM). In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for OSCS. In the upper-division baccalaureate category, 6 semester hours for a prank in management, 3 in management problems, 3 in personnel management, and additional credit in human relations on the basis of institutional evaluation, for a minimum total of 12 semester hours (12/76).

### NER-OT-001

**Recommendation, OT2**

In the vocational certificate category, 6 semester hours in radar operations, 3 in professional supervision, 1 in aviation electronics, 1 in general clerical procedures, and 1 in professional supervision, for a combined minimum total of 8 semester hours. In the upper-division baccalaureate/associate degree category, 2 semester hours in record keeping, 3 in postal delivery and collection, 6 in mail processing, and 2 in postal problems analysis, for a combined total of 11 semester hours (12/76).

**Recommendation, OT1**

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping and 3 in general clerical procedures; if the student is enrolling in a postal service management program, additional credit as follows: 3 semester hours in postal customer services, 3 in postal delivery and collection, and 6 in mail processing, for a combined total of 11 semester hours (12/76).

**Recommendation, PC2**

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping and 3 in general clerical procedures; if the student is enrolling in a postal service management program, additional credit as follows: 3 semester hours in postal customer services, 3 in postal delivery and collection, and 6 in mail processing, for a combined total of 11 semester hours (12/76).

**Recommendation, PC1**

In the vocational certificate category, 2 semester hours in record keeping and 3 in general clerical procedures; if the student is enrolling in a postal service management program, additional credit as follows: 3 semester hours in postal customer services, 3 in postal delivery and collection, and 6 in mail processing, for a combined total of 11 semester hours (12/76).

**Recommendation, PCC**

In the vocational certificate category, 2 semester hours in record keeping and 3 in general clerical procedures; if the student is enrolling in a postal service management program, additional credit as follows: 3 semester hours in postal customer services, 3 in postal delivery and collection, and 6 in mail processing, for a combined total of 11 semester hours (12/76).

**Recommendation, PCCM**

In the vocational certificate category, the recommendation is the same as that for PCCM. In the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping, 3 in general clerical procedures, 3 in personnel supervision, and additional credit for field experience in management on the basis of institutional evaluation, for a minimum total of 8 semester hours; if the student is enrolling in a postal service management program, additional credit as follows: 3 semester hours in postal customer services, 3 in postal delivery and collection, 6 in mail processing, and 2 in postal problems analysis, for a combined total of 22 semester hours (12/76).

**Recommendation, OTCM**

In the vocational certificate category, the recommendation is the same as that for OTC. In the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping, 3 in general clerical procedures, 3 in personnel supervision, and additional credit for field experience in management on the basis of institutional evaluation, for a minimum total of 8 semester hours; if the student is enrolling in a postal service management program, additional credit as follows: 3 semester hours in postal customer services, 3 in postal delivery and collection, 6 in mail processing, and 2 in postal problems analysis, for a combined total of 22 semester hours (12/76).

### OE-OT-001

**Recommendation, PC3**

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in mail processing and 2 in postal customer services (12/76).

**Recommendation, PC2**

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in mail processing and 2 in postal customer services (12/76).
NER-PH-001

PHOTOGRAPHER'S MATE

PH3
PH2
PH1
PHC
PHCS
PHCM

Exhibit Dates: 6/71-Present.

Occupational Field: 17 (Media).

Career Pattern


Description

Summary: Makes pictorial records of historical and newsworthy events, final photographs, strip photographs, and mosaics; maintains photographic equipment and accessories. PH3: Operates 16-mm silent motion picture cameras, 4" x 5" press cameras, copy cameras, view cameras, 2 1/4" format roll film cameras, 35-mm rangefinder-equipped still cameras, 35-mm single-lens reflex cameras, contact printers, black-and-white projection printers, sensitometers, densitometers, color analyzers, exposure meters, and automatic processing machines; photographs small metal parts, architectural structures, persons (personal and informal portraits), and interior and exterior scenes; processes black-and-white transparencies from black-and-white negative original tone original transparencies, high-contrast black-and-white transparencies from color negative originals, color transparencies maintaining the density and color balance of the original, sheet and roll film to negatives and affiliates identification information, black-and-white negatives from multicolored original to show complete separation of the colors as tones, black-and-white contact prints from selected negatives, black-and-white projection prints from negatives with variable contrast paper and the correct printing filters, and corrected prints (custom prints) from color negatives, uses painted light techniques, files, natural lighting, light enhancing techniques, photoflash techniques, stop motion techniques, selective focus techniques, and basic lighting arrangement; produces prints from negatives to show complete separation of the colors as tones, prepares stock/working solutions from pre-packaged materials, prepares print rooms for printing black-and-white negatives; obtains print records for black-and-white negative original transparencies, makes prints from obtained records, and establishes master filter packs for printing color negatives; orders standard stock items. PH1: Able to perform the duties required for PH3; prepares storyboards for use in producing silent motion pictures; prepares slide presentations with taped narrative; uses TV spot news operation picture coverage techniques and motion picture editing techniques; photographs cathode ray tube images for recording and image retrieval/interpretation; evaluates control charts to determine trends, shifts, and cycles and monitors process control; prepares duplicate negatives and positives from original film for image interpretation; supervises operator maintenance of photographic equipment and accessories; supervises photographic work for center. PHC: Able to perform the duties required for PH1; provides silent motion picture film for release to television stations for news shows; plans missions for hand-held aerial photographic coverage; supervises maintenance of photographic processing equipment and accessories and maintains history cards; procures non-standard stock items. PHCS: Able to perform the duties required for PHC; ensures compliance with copyright and reproduction regulations; prepares local directives and instructions; prepares correspondence; interviews, signs, and evaluates personnel to assure maximum utilization; organizes, schedules, and evaluates training programs; determines photographic equipment and supply requirements and coordinates procurement. PHCM: Able to perform the duties required for PHCS; accepts manpower authorizations; reviews personnel, equipment, and material requirements and forecasts future needs; establishes plans and sets priorities; develops operating budgets and monitors expenditures.

Recommendation, PH3

In the vocational certificate category, 6 semester hours in camera and accessories techniques, 3 in photography techniques, and 6 in photo processing, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic photography, 2 in camera techniques, 2 in darkroom techniques, 2 in film production, 2 for an internship in photography, 1 in technical photography, 1 in personnel supervision, and 1 in color photography, for a total of 15 semester hours (2/77).

Recommendation, PH1

In the vocational certificate category, the recommendation is the same as that for PH3. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic photography, 3 in camera techniques, 3 in darkroom techniques, 3 in film production, 3 for an internship in photography, 1 in technical photography, 1 in personnel supervision, and 1 in color photography, for a total of 19 semester hours (2/77).

Recommendation, PHC

In the vocational certificate category, the recommendation is the same as that for PH1. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic photography, 3 in camera techniques, 3 in darkroom techniques, 3 in film production, 3 for an internship in photography, 1 in technical photography, 1 in personnel supervision, and 1 in color photography, for a total of 24 semester hours (2/77).

Recommendation, PHCS

In the vocational certificate category, the recommendation is the same as that for PHC. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic photography, 6 in camera techniques, 6 in darkroom techniques, 3 in film production, 3 for an internship in photography, 3 in technical photography, 6 in personnel supervision, 1 in portraiture, and 1 in color photography, for a total of 22 semester hours (2/77).

Recommendation, PHCM

In the vocational certificate category, the recommendation is the same as that for PHCS. In the lower-division baccalaureate/associate degree category, 12 semester hours in basic photography, 6 in camera techniques, 6 in darkroom techniques, 3 in film production, 6 for an internship in photography, 1 in technical photography, 6 in personnel supervision, 1 in portraiture, and 1 in color photography, for a total of 32 semester hours (2/77).

NER-PI-001

PRECISION INSTRUMENTMAN, MASTER CHIEF

PICM

Exhibit Dates: Pending evaluation.

NER-PM-001

PATTERNMAKER

PM3
PM2
PM1
PMC

Exhibit Dates: Pending evaluation.

NER—PN-001

PERSONNELMAN

PN3
PN2
PN1
PNC
PNCS
PNCM

Exhibit Dates: 6/71-Present.
OCCUPATIONAL FIELD: 15 (Administration).

Career Pattern

**SN:** Personnelman (E-3). **PN1:** Personnelman Second Class (E-3). **PN2:** Personnelman First Class (E-6). **PNCS:** Chief Personnelman (E-7). **PR:** Personnelman Chief, Personnelman (E-8). **PRCM:** Master Chief Personnelman (E-9).

**Description**

**Summary:** Performs enlisted personnel administrative duties; performs recordkeeping; prepares and maintains personnel records; assists personnel in completing forms, letters, and requests; prepares correspondence and analyzes reports; assists in the preparation of operating budgets; recommends improvements. **PN1:** Able to perform the duties required for PN2; performs task assignment; interprets and directs and instructs personnel; performs task assignments; organizes and monitors maintenance of files, requisitions, maintains issues, and accounts for educational materials and personnel; advises personnel on the availability of training and educational materials, service school eligibility, policies, and procedures of duty assignments, and emergency relief agency. **PN2:** Able to type 35 words per minute. **PN1:** Able to perform the duties required for PN2; prepares statistical reports; performs administrative duties; applies methods of work simplification; reviews completed job orders and work requests; drafts instructions and directives; supervises the procurement, custody, and handling of publications; conducts briefings and interviews concerning dependency benefits and pre-retirement matters; able to type 40 words per minute. **PN:** Able to perform the duties required for PN1; supervises and trains personnel in classification procedures; performs applications for personnel programs; leads in the education and preparation of personnel for higher education and/or commissioned rank; serves as personnel officer; interprets personnel procedures and manpower authorizations; supervises the preparation and transmission of documents; establishes and administers personnel programs for personnel; briefs and advises personnel; performs task analysis. **PNCS:** Able to perform the duties required for PN1; supervises, monitors, and evaluates records management; staffs office and supervises and analyzes support; organizes and schedules training programs; evaluates effectiveness of programs and initiates improvements. **PRCM:** Able to perform the duties required for PNCS; performs organizational analyses; develops research reports; plans, organizes, implements, and controls activities in compliance with over-all manpower and directives; develops operating budgets and monitors expenditures.

**Recommendation**

In the vocational certificate category of the lower-division baccalaureate/associate degree category, 1 semester hour in filling and records management and 3 in office procedures, for a total of 5 semester hours (12/76).

In the lower-division baccalaureate/associate degree category, 1 semester hour in filling and records management and 3 in office procedures, for a total of 3 semester hours (12/76).

**PN1:** In the lower-division baccalaureate/associate degree category, 1 semester hour in filling and records management, 2 in typifying, 3 in office procedures, 3 in communication (written), 3 in office management and 3 in human relations, and additional credit for field experience in management, on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in job analysis (12/76).

**Recommendation, PNCS**

In the vocational certificate category, the recommendation is the same as that for **PN1.** In the lower-division baccalaureate/associate degree category, 1 semester hour in filling and records management, 2 in typifying, 3 in office procedures, 3 in communication (written), 3 in office management and 3 in human relations, and additional credit for field experience in management, on the basis of institutional evaluation, for a minimum total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours in job analysis, and 3 in test administration, and additional credit for a practicum in management on the basis of institutional evaluation, for a minimum total of 6 semester hours (12/76).

**Recommendation, PRCM**

In the vocational certificate category, the recommendation is the same as that for **PN1.** In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for PNCS. In the upper-division baccalaureate category, 3 semester hours in job analysis, and 3 in test administration, and additional credit for a practicum in management on the basis of institutional evaluation, for a minimum total of 6 semester hours (12/76).

**NER-PR-001**

**AIRCREW SURVIVAL EQUIPMENTMAN**

**PR3**

**PR2**

**PR1**

**PRC**

**PRCS**

**PRCM**

**Exhibit Dates:** 6/71-Present.

**OCCUPATIONAL FIELD:** 5 (Aviation Maintenance/Wear/Ship). **Career Pattern**

**AN:** Airman (E-3). **PR3:** Aircrew Survival Equipmentman (Third Class (E-4). **PR2:** Aircrew Survival Equipmentman Second Class (E-5). **PR1:** Aircrew Survival Equipmentman First Class (E-6). **PRC:** Chief Aircrew Survival Equipmentman (E-7). **PRCS:** Senior Chief Aircrew Survival Equipmentman (E-8). **PRCM:** Master Chief Aircrew Survival Equipmentman (E-9).

**Description**

**Summary:** Inspects, maintains, and repairs aircraft survival equipment, and flight and protection equipment. **PR3:** Packs and rigs parachutes, packs and deploys life rafts, sews, stitches, and patches material, and replaces fasteners, grommets, and speedy rivets; performs preflight, postflight, turn-around, and additional inspections of aircrew survival equipment; maintains components of oxygen masks; operates, lubricates, and adjusts sewing machines, operates carbon dioxide recharge equipment. **PR2:** Able to perform the duties required for **PR3;** is a first-line supervisor of 3 persons working in parachute lofts and maintenance of gear work centers; operates oxygen systems components test stand and liquid oxygen converter; operates test equipment for cartridge actuated devices associated with parachute systems; inspects, cleans, tests, fits, adjusts, and repairs aircrew inflatable survival equipment, and inspect, packs, and maintains seat-seated equipment; tests oxygen breathing-regulators and liquid oxygen converters and components. **PR1:** Able to perform the duties required for **PR3;** modifies and repairs aircrew survival and associated equipment; repairs oxygen breathing-regulators, emergency oxygen systems and converters and components; maintains carbon, dioxide recharge equipment; maintains test equipment for parachute actuated devices associated with parachute systems; organizes and controls technical publications and directives; supervises inspections; prepares weekly schedules of preventive maintenance activities, and trains equipment, spare parts, and materials; troubleshoots and repairs sewing machine malfunctions. **PRC:** Able to perform the duties required for **PR3;** supervises personnel; monitors compliance with safety program; interprets maintenance directives and instructions; ensures maximum utilization of personnel, equipment, and facilities; administers and maintains test equipment; supervises inspections; prepares weekly schedules of preventive maintenance; prepares reports concerning material and equipment. **PRCM:** Able to perform the duties required for **PR3;** recommends changes to ground and flight safety programs; assists in aircraft accident investigations, collects, disseminates, and ensures compliance with technical information concerning assigned equipment; prepares local directives and instructions for training ob jectives and improving operations; prepares correspondence; provides information and advice regarding operations in area of responsibility; implements a program for intercepting, assigning, and evaluating personnel; organizes, schedules, and evaluates training programs; administers long-range maintenance program. **PRCM:** Able to perform the duties required for **PRCS;** formulates guidelines for use in safety inspections; plans and estimates workload commitments; monitors implementation of preventive maintenance program; ensures that procedures for requisitioning, receiving, storing, and transferring equipment are followed; prepares studies concerning maintenance and staff problems; plans, organizes, and coordinates functions in the maintenance department; reviews and forecasts material, equipment, and personnel requirements; establishes objectives and priorities in area of responsibility; reviews and evaluates inspection records and quality control reports; develops operating budgets and monitors expenditures.

**Recommendation, PR3**

In the vocational certificate category of the lower-division baccalaureate/associate degree category, 9 semester hours in aviation safety equipment, and 3 in aviation maintenance technology (2/77).
In the upper-division baccalaureate/associate degree category, 15 semester hours in aviation safety equipment repair and maintenance, 6 in aviation maintenance technology, and 3 in shop management, for a total of 27 semester hours. In the upper-division baccalaureate/associate degree category, 3 semester hours for field experience in management, and 3 in organization and planning (2/77).

Recommendation, PRCS

In the vocational certificate category, the recommendation is the same as that for PR1. In the upper-division baccalaureate/associate degree category, 15 semester hours in aviation safety equipment repair and maintenance, 6 in aviation maintenance technology, 3 in personnel supervision, and 3 in shop management, for a total of 27 semester hours. In the upper-division baccalaureate/associate degree category, 3 semester hours for field experience in management, and 3 in organization and planning (2/77).
NER-RD-001

RADARMAN

RD3
RD2
RD1
RDC
RDCS
RDCM

NER-RM-001

RADOMAN

RM3
RM2
RM1
RMCS
RMCM

NER-SH-001

SHIP'S SERVICEMAN

SH3 (SHT3, SHB3, SHL3, SHS3)
SH2
SH1
SHC
SHCS
SHCM

Recommendation, SHCS (Clerk)

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping, 3 in personnel supervision, 3 for field experience in management, and additional credit in human relations on the basis of institutional evaluation (12/76).

Recommendation, SHC

In the vocational certificate category, use the appropriate recommendation for SH3 (tailor, barber, laundryman, or clerk), plus 1 additional semester hour in record keeping and 3 in retail sales management. In the lower-division baccalaureate/associate degree category, use the appropriate recommendation for SH3 (tailor, barber, laundryman, or clerk), plus 1 additional semester hour in record keeping, 3 in retail sales management, 3 in personnel supervision, 3 in management electives, and 3 for field experience in management. In the upper-division baccalaureate degree category, 3 semester hours for a practicum in management, and additional credit in human relations on the basis of institutional evaluation (12/76).

Recommendation, SHCM

In the vocational certificate category, use the appropriate recommendation for SH3 (tailor, barber, laundryman, or clerk), plus 1 additional semester hour in record keeping and 3 in retail sales management. In the lower-division baccalaureate/associate degree category, use the appropriate recommendation for SH3 (tailor, barber, laundryman, or clerk), plus 1 additional semester hour in record keeping, 3 in retail sales management, 3 in personnel supervision, 3 in management electives, and 3 for field experience in management. In the upper-division baccalaureate degree category, 3 semester hours in management problems, 3 in management techniques, 3 in lower-division baccalaureate/associate degree category, 2 semester hours in record keeping, and 3 in environmental control (12/76).

Recommendation, SH5 (Clerk)

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in record keeping and 3 in environmental control. In the upper-division baccalaureate degree category, 3 semester hours in management problems, 3 in management techniques, 3 in lower-division baccalaureate/associate degree category, 2 semester hours in record keeping, and 3 in environmental control (12/76).
NER-SK-001

STOREKEEPER

SK3
SK2
SK1
SKC
SKCS
SKCM

Exhibit Dates: 6/72-Present.

Occupational Field: 16 (Logistics).

Career Pattern


Description

Summary; orders, receives, inspect, stores, preserves, packages, ships, and issues materials and cargo; prepares and maintains forms, records, correspondence, reports, and files; SK3: Knows basic organization and functions of supply department; is familiar with the purpose and use of major components of automated data processing equipment; SKC: Prepares personnel and knows common terms used in ADP; operates office machines; types (20 words per minute), routes, and files forms and messages; maintains files in the personnel log, and budget journals; prepares supply-related documents; identifies, receives, stores, and issues materials and cargo; prepares items for shipment; prepares shipment documents; maintains stock material and installed equipment; operates material-handling equipment. SK2: Able to perform the duties required for SK3; establishes and maintains files; knows types, uses, and purposes of appropriations and funds; reconciles financial listings; prepares budget reports; requisitions repair parts, supplies, forms, and publications; supervises working parties handling stores; controls inventory; maintains and interprets reports and records; prepares open purchase, and communicates; prepares data for purchase orders; applies regulations to maintain the security of materials and documents; SK1: Performs work to perform the duties required for SK2; prepares automated supply procedures; prepares correspondence and messages in the use of publications and directives; supervises the maintenance of publications; reviews requisitions for non-standard materials; establishes and maintains a technical library; implements and supervises target budgeting procedures; processes bills for payment; identifies sources and uses of funds; effects supply issuance; carries out Navy supply procedures; supervises regular and special inventories. SKC: Able to perform the duties required for SK1; monitors, organizes, and supervises the supply department; supervises all internal procedures for inventory management; prepares replenishment data for equipment, repair parts, and consumables and estimates requirements which will be available to meet future needs; participates in the review and modification of budgeting procedures; SKCS: Analyzes supply reports and evaluates problem areas; supervises on-the-job training programs; utilizes ADP in supply operations; supervises personnel and directly supplies inventories, including those related to security, financial control, and logistics; prepares local directives and instructions. SKCM: Able to perform the duties required for SKCS; plans, organizes, and supervises all controls activities in compliance with policy statements, directives, and regulations; forecasts future requirements; plans and initializes actions to satisfy requirements; establishes goals, WP]] and reviews, and evaluates personnel, equipment, and material requirements; develops operating budgets and monitors expenditures; plans and develops and operates operational procedures for service markets, supply operations assistance program, and in human rights on the basis of institutional evaluation.

NER-SM-001

SIGNALMAN

SM3
SM2
SM1
SMCS
SMMC
SMMC

Exhibit Dates: 6/71-Present.

Occupational Field: 1 (General Seamanship).

Career Pattern


Description

Summary; sends and receives messages by flashing light, semaphore, and flaghoist; stands watch on the signal bridge; performs lookout duties; encodes and decodes messages; maintains visual signal equipment; recognizes visual aids to navigation, such as beacons and buoys; takes bearings; serves as navigator's assistant. SM1: Performs basic seamanship duties; stands watch as a signal operator under way and in port; inventories equipment; performs routine maintenance on optical equipment; uses and recognizes flag, lights, international distress, emergency, and storm warning signals; transmits and receives code groups by flashing lights at 8 words per minute (WPM) and semaphore at 10 WPM; selects and displays flags and pennants; receives, sends, and handles routine messages according to procedure; performs duties of a signalman as member of a boatcrew; operates infrared and flashing light equipment; performs maintenance of visual signaling equipment. SM2: Able to perform the duties required for SM3; maintains visual signal log and visual traffic files; locates ships in local formation using formation diagram; corrects and maintains signal publications; completes planned maintenance reports; orders repair parts and special tools required for installed equipment maintenance; constructs and uses all visual call signs, international call signs, and task organization call for ship and command; encodes and decodes naval or international signals contained in effective visual communications publications; carries out physical and destruction of classified communications materials; ensures that correct methods of transmissions or transportation of classified information and material are followed; transmits and receives code groups by flashing light of 8 WPM, plain language message by flashing light at 10 WPM, and by semaphore at 15 WPM. SM3: Able to perform the duties required for SM2; prepares requests for requisition of equipment; prepares visual and equipment communications stabilizing orders for signalmen; instructs signal personnel in identification of ships and aircraft; visual communication procedures, naval communication rules, and recognition procedures and codes; pre-
NAVY ENLISTED RATINGS EXHIBITS

NER-SN-001
SEAMAN
SN
Exhibit Dates: 6/71-Present.

Career Pattern
Seaman (SN) is a general rate (Naval apprentice) for persons at pay grades E-1 (recruit), E-2 (seaman apprentice), and E-3 (seaman). At pay grade E-4 (petty officer third class), the person may enter any one of the following ratings: Boatswain's Mate (BM), Cryptologic Technician (CT), Data Processing Technician (DP), Data Systems Technician (DS), Disbursing Clerk (DK), Electronics Technician (ETN or ETR), Electronics Warfare Technician (EW), Fire Control Technician (FTB, FTP, or FTM), Gunner's Mate (GMG or GMM), Gunner's Mate Technician (GMT), Illustrator Draftsman (IDM), Instrumentman (IM), Intelligence Specialist (IS), Journalist (JO), Lithographer (LI), Mess Management Specialist (MS), Mineman (MN), Missile Technician (MT), Musician (MU), Ocean System Technician (OT), Operations Specialist (OS), Opticalman (OM), Personnelman (PN), Postal Clerk (PC), Quartermaster (QM), Radioman (RM), Supply and Services (SH), Signalman (SM), Sonar Technician (STG), Storekeeper (SK), Torpedoman's Mate (TM), or Yeoman (YM).

Description
Performs all basic seaman's functions aboard ship that involve line or wire, including knot tying, whipping and seizing, and rigging used to secure the ship to a pier, moor, or anchor. Must be able to identify functions of navigation and shipboard equipment, including fixed or portable items and power or non-powered items; lowers, raises, and launches life saving equipment; handles small boats; navigates by using several different types of compasses; keeps records by degrees or points; knows navigational aids, Nautical Rules of the Road, and the buoyage of inland waters of the U.S.; knows the nomenclature of decks, superstructures, and parts of the hull; knows the purpose and limitations of first aid and the first aid treatments for electrical shock, simple and compound fractures, heat exhaustion, heat stroke, and burns; must be qualified as a Swimmer Fourth Class, requiring floating for a minimum of five minutes, preparing and using clothing and buoyant objects for staying afloat, and swimming through oil, flames, and debris; knows how to determine the classes of fire and how to extinguish them; knows how to couple, uncouple, and stow fire hoses and how to use carbon dioxide, dry chemical, and water-portable fire extinguishers; knows the function of the typical fire main system, fixed carbon dioxide system, water wash-down system, and magazine sprinkling system; knows the difference between flooding and progressive flooding and the dangers involved.

Recommendation
In the vocational certificate category, or in the lower-division baccalaureate/associate degree category, 3 semester hours in seaman ship, and additional credit in first aid and fire science on the basis of institutional evaluation; if the duty assignment was boat operation, 3 additional hours for small boat operation (12/76). NOTE: Credit for Seaman (SN) should be granted only after pay grade E-3 has been achieved.

NER-ST-001
SONAR TECHNICIAN, MASTER CHIEF
STCM
Exhibit Dates: Pending evaluation.

NER-STG-001
SONAR TECHNICIAN, SURFACE
STG3
STG2
STG1
STGC
STGCS
Exhibit Dates: Pending evaluation.

NER-STS-001
SONAR TECHNICIAN, SUBMARINE
STS3
STS2
STS1
STSC
STSCS
Exhibit Dates: Pending evaluation.

NER-SW-001
STEELWORKER
SW3
SW2
SW1
SWC
SWCS
Exhibit Dates: 6/71-Present.
Tradesman (TD) 3

TD2

TD1

TDC

TDCS

TDCM

NER-TD-001

TRADEDMAN

Description
Summary: Operates, maintains, and installs training equipment; supervises maintenance of equipment and material; maintains and repairs training aids. TD3: Performs maintenance on electronic, hydraulic, and electrical training equipment; prepares computers for operation; records information on training devices; performs electromechanical maintenance; operates and repairs audio-visual training equipment and other training devices. TD2: Able to perform the duties required for TDC; analyzes and repairs electronic and hydraulic systems of training devices; operates and maintains sensor equipment; repairs analog computers; prepares computer program tapes and interprets print-outs; organizes and maintains technical files; troubleshoots and maintains servo-systems used in training devices; locates and corrects defects in mechanical computing elements. TD1: Able to perform the duties required for TD2; analyzes and corrects computer system malfunctions; supervises tests and measurements on training devices; prepares maintenance troubleshooting programs for ADP/EDP operations; verifies computer tapes; prepares drawings from mechanical, electrical, and electronic schematics; inspects maintenance work; prepares maintenance schedules; orders technical publications or manuals; performs work in installation, equipment and material; maintains and repairs air-conditioning systems. TDC: Able to perform the duties required for TDC; assists in selection and development of training aids; coordinates scheduling of training devices; supervises training programs; assigns job priorities; analyzes computer program error and discrepancy trends; directs and monitors installation, operation, and maintenance of associated equipment and components. TDCS: Able to perform the duties required for TDC; provides utilization information; prepares coordination and equipment maintenance.
on the basis of institutional evaluation, for a minimum total of 12 semester hours (2/77).

NER-TM-001 TORPEDOMAN'S MATE

TM3
TM2
TM1
TMCS
TMCM

Exhibit Dates: Pending evaluation.

NER-UT-001 UTILITIESMAN

UT3
UT2
UT1
UTC
UTC5
UTCM

Exhibit Dates: 6/72-Present.

1.1 UTCM


Description

Summary: Plans, supervises, and performs tasks involved in the installation, maintenance, and repair of plumbing, heating, steam, compressed-air, fuel storage, and distribution systems. Wates treatment and distribution systems. Air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT3: Installs immcineration heaters and space heaters, fuel lines, and piping and pressure vessel insulation materials; performs pre-start checks, and maintains and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT2: Performs minor repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT1: Installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTC: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTC5: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTCM: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities.

NER-UTM-001 UTILITIESMAN

1.1 UTCM


Description

Summary: Plans, supervises, and performs tasks involved in the installation, maintenance, and repair of plumbing, heating, steam, compressed-air, fuel storage, and distribution systems. Wates treatment and distribution systems. Air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT3: Installs immcineration heaters and space heaters, fuel lines, and piping and pressure vessel insulation materials; performs pre-start checks, and maintains and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT2: Performs minor repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT1: Installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTC: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTC5: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTCM: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities.

NER-UTN-001 UTILITIESMAN

1.1 UTCN


Description

Summary: Plans, supervises, and performs tasks involved in the installation, maintenance, and repair of plumbing, heating, steam, compressed-air, fuel storage, and distribution systems. Wates treatment and distribution systems. Air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT3: Installs immcineration heaters and space heaters, fuel lines, and piping and pressure vessel insulation materials; performs pre-start checks, and maintains and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT2: Performs minor repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UT1: Installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTC: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTC5: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities. UTCM: Installs and repairs on immersion heaters and space heaters; installs boilers, water plants, air-conditioning and refrigeration equipment, and sewage collection and disposal facilities.
sewage treatment systems, 2 in general plans and specifications, and 2 in personnel supervision, for a total of 17 semester hours (1/71).

Recommendation, UTC
In the vocational certificate category, the recommendation is the same as that for UT1. In the lower-division baccalaureate/associate degree category, 4 semester hours in utilities construction and maintenance, 3 in applied science, 3 in utilities construction estimating, 3 in water and sewage treatment systems, 3 in personnel supervision, 2 in general plans and specifications, 2 in shop management, and 1 in general management, for a total of 20 semester hours (1/77).

Recommendation, UTCS
In the vocational certificate category, the recommendation is the same as that for UT1. In the lower-division baccalaureate/associate degree category, 4 semester hours in utilities construction and maintenance, 3 in applied science, 3 in utilities construction estimating, 3 in water and sewage treatment systems, 3 in personnel supervision, 2 in general plans and specifications, 2 in shop management, and 1 in safety management, for a total of 23 semester hours. In the upper division baccalaureate category, 3 semester hours for a practicum in management, and 3 in human relations (1/77).

Recommendation, UTCC
In the vocational certificate category, use the recommendation for either UT1 or CE1 (Construction Electrician First Class) in exhibit NER-CE-001, as appropriate. In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of administration, 3 in construction contracts and agreements, and 3 in government budgeting and finance, for a total of 9 semester hours; add either the 23 semester hours for UTCC, for a total of 32 semester hours, or the 17 semester hours for CECS (Senior Chief Construction Electrician) in exhibit NER-CE-001, for a total of 26 semester hours, as appropriate. In the upper division baccalaureate category, 3 semester hours for a practicum in management, 3 in human relations, 3 in management problems, and 3 in forecasting, for a total of 15 semester hours (1/77).

NER-YN-001

YEOMAN

YN3

YN2

YN1

YNC

YNCS

YNCM

Exhibit Dates: 6/72-Present

Occupational Field: 15 (Administration).

Career Pattern

Description
Summary: Performs general office clerical duties, including typewriting, office machine operations, office communications, and filing and record maintenance. YN3: Maintains files; operates duplicating, adding, calculating, and copying machines; types correspondence, reports, and other communications; prepares rough drafts (a straight-copy typing rate of at least 30 words per minute is required). YN2: Able to perform the duties required for YN3; organizes and maintains files and records maintenance, retention, and disposal; maintains officer personnel records; routes correspondence; prepares reports, correspondence, and records (a straight-copy typing rate of at least 40 words per minute is required); sends, receives, and accounts for official and registered mail. YN1: Able to perform the duties required for YN2; drafts correspondence, instructions, and notices (a straight-copy typing rate of at least 50 words per minute is required); verifies accuracy of job orders and work requests; assists in the supervision of clerical functions. YNC: Able to perform the duties required for YN1; maintains classified materials control system; verifies accuracy of official correspondence and reports; monitors submittal and validation of officer fitness reports; supervises and directs clerical functions. YNCM: Able to perform the duties required for YNCS; establishes goals, objectives, and priorities in the administration of the office function; reviews and makes recommendations concerning office personnel, equipment, and supply requirements, develops operating budget for the office and monitors office expenditures.

Recommendation, YN3
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in typing, 1 in filing and records management, 1 in general clerical procedures, and 1 in office machines, for a total of 5 semester hours (12/76).

Recommendation, YN2
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 2 in filing and records management, 2 in general clerical procedures, and 1 in office machines, for a total of 8 semester hours (12/76).

Recommendation, YNC
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 2 in filing and records management, 2 in general clerical procedures, 2 in communication skills (written), and 1 in office machines, and additional credit in typing on the basis of institutional evaluation, for a minimum total of 10 semester hours (12/76).

Recommendation, YNCS
In the vocational certificate category, 3 semester hours in typing, 3 in general clerical procedures, 3 in communication skills (written), 2 in filing and records management, 1 in personnel management, and additional credit in typing on the basis of institutional evaluation, for a minimum total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in general clerical procedures, 3 in communication skills (written), 2 in filing and records management, 1 in personnel supervision, 1 in office machines, and 1 in office management, and additional credit for field experience in management and in typing on the basis of institutional evaluation, for a minimum total of 14 semester hours (12/76).

Recommendation, YNCM
In the vocational certificate category, 3 semester hours in typing, 3 in general clerical procedures, 3 in communication skills (written), 3 in office management, 3 in administration electives, 2 in filing and records management, and 1 in office machines, and additional credit in typing on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in general clerical procedures, 3 in communication skills (written), 3 in office management, 3 in management electives, 3 in personnel supervision, 2 in filing and records management, and 1 in office machines, and additional credit for field experience in management and in typing on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, credit in human relations and for a practicum in management on the basis of institutional evaluation (12/76).

Recommendation, YNCC
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for YNCS. In the upper-division baccalaureate category, 3 semester hours in management problems, and additional credit in typing on the basis of institutional evaluation (12/76).
Appendix A
The Evaluation Systems

During the period, 1945-78, the American Council on Education developed and refined comprehensive procedures and criteria for the evaluation of military learning experiences. This appendix outlines the historical development of the Guide; defines which courses can be found in the Guide; provides background information on Navy general rates and ratings; describes the evaluation systems used to prepare the recommendations for military formal courses and Navy ratings; and includes definitions and guidelines pertaining to categories of educational credit, the semester hour standard, categories of apprentice training, and clock hours and contact hours. The Commission policy on credit for military service, including basic and recruit training, is also given in this appendix.

BACKGROUND

Each edition of the Guide to the Educational Experiences in the Armed Services has been prepared in response to specific needs. Immediately after World War II, the consensus of the educational community was that the practice of granting blanket credit to World War I veterans as a reward for length of service was unsound. Educators concluded that military learning experiences applicable to civilian curricula should be assessed by civilian education specialists for potential credit. Therefore, in December 1945, at the request of civilian educational institutions and the regional accrediting associations, the American Council on Education established the Commission on Accreditation of Service Experiences—renamed the Commission on Educational Credit in 1974—to evaluate military educational programs and to assist institutions in granting credit for such experiences. Accordingly, the first edition of the Guide was published to assist educational institutions in evaluating service courses completed by returning veterans.

The extension of the World War II G.I. Bill to include veterans of the Korean conflict, and the subsequent enrollment of many veterans in colleges and universities, created a need for the second edition, published in 1954.

The 1968 edition was prepared in anticipation of the increased enrollment of veterans resulting from the educational assistance provided under the Veterans Readjustment Benefits Act of 1966, and with the expectation that many would apply for educational credit for their learning experiences in the armed services. In addition, technological advances had necessitated major changes in service training, with a resulting need for new or revised educational credit recommendations.

The 1974 edition was prepared primarily to respond to three emerging considerations. First, because of the growth in vocational and technical programs and the emergence of the concept of postsecondary education, there was a need to evaluate courses for possible credit in the vocational and technical categories in addition to the baccalaureate and graduate categories of previous editions. Second, active-duty service men and women were enrolling in increasing numbers in civilian educational programs and were seeking credit for related formal military courses soon after completing their service school training. Third, credit recommendations were needed for the many courses initiated by the military since 1968.

The 1974 edition marked the beginning of a new approach to reporting evaluations of formal military training. At its fall 1973 meeting, the Commission approved the concept of an ongoing Guide system. Elements of that system include the publication of periodic editions of, or supplements to, the Guide through computerized composition, continuous staff review of courses, and the computerized storage of course information for a more rapid updating of credit recommendations and for an improved ability to respond to inquiries related to course identification and credit recommendations.

Over the years the recommendations contained in the Guide have assisted education institutions in granting credit to hundreds of thousands of service men and women. Surveys conducted by the Office showed that most of the nation's colleges and universities use the formal course recommendations in awarding credit to veterans and active-duty service personnel. The recommendations have been widely accepted because military formal courses share certain key elements with traditional postsecondary programs: they are formally approved and administered, are designed for the express purpose of achieving learning outcomes, are conducted by qualified persons with specific subject-matter expertise, and are structured to provide for the evaluation of learning outcomes.
APPENDIX A

Until 1975, however, no mechanism existed for providing recognition for the learning a service man or woman attained through such learning experiences as self-instruction, on-the-job training, and work experience. As a first step in providing recognition for such learning experiences, the Commission in 1975 implemented a program for the evaluation of learning represented by demonstrated proficiency in Army enlisted military occupational specialties (MOS's). The MOS evaluation procedures were developed, tested, and refined during a feasibility study conducted by the Council and sponsored by the U.S. Department of the Army. Evaluators made recommendations for educational credit and advanced standing in apprentice training programs. Subsequently, the occupational assessment program of the Commission was expanded to include the general rates and ratings of the Navy Enlisted Manpower and Personnel Classification System and Army warrant officer MOS's.

The recommendations for advanced standing in apprentice training programs are the result of the cooperative efforts of the American Council on Education and labor and industry. The recommendations reflect the Commission's belief that it is sound educational practice to give recognition for learning, no matter how or where that learning has been attained, provided that the learning is at the appropriate level, is in the appropriate area, and is applicable to an individual's postsecondary program of study or apprenticeship program.

THE COURSES

Courses listed in the Guide are normally service school courses conducted on a formal basis, i.e., approved by a central authority within each service and listed by the service in its catalogue. These courses are conducted for a specified period of time with a prescribed course of instruction, in a structured learning situation, and with qualified instructors.

Most courses are given on a full-time basis (a minimum of thirty contact hours of instruction a week) for not less than two weeks' duration; or, if less than two weeks in length, the course must include a minimum of sixty contact hours of instruction. (Prior to 1973 the minimum length requirement was three weeks or 90 hours.) The American Council on Education also evaluates courses conducted for National Guard and Reserve personnel (not on extended active-duty status) when these courses meet the same requirements.

Recommendations for formal courses offered between World War II and 1954 are available in the 1954 edition of the Guide or from the Office on Educational Credit upon written request by education officials. In addition, military Subject Standardized Tests (SSTs) are evaluated by the American Council on Education, but are not included in the Guide: recommendations are available from the Office on Educational Credit upon written request by education officials.

THE COURSE EVALUATION SYSTEM

In the fall of 1973, the Commission on Educational Credit of the American Council on Education approved the following procedures and guidelines for the evaluation of military formal courses.

The Evaluation Process

Courses are evaluated by teams of at least three subject-matter specialists. Through discussion and the application of evaluation procedures and guidelines, team members reach a consensus on the amount and category of credit to be recommended.

Evaluation materials include the course syllabus, training materials, tests, and examinations. Additional information is obtained from interviews with instructors and program administrators, classroom observations, and examination of instructional equipment and laboratory facilities.

Each team of evaluators has two major tasks for each course: the formulation of a credit recommendation and the preparation of the course's description. The credit recommendation consists of the category of credit, the number of semester hours recommended, and the appropriate subject area. Using the information provided in the military syllabus, evaluators phrase the course description (which appears in the Guide) under the headings "Objectives" and "Instruction") in terms meaningful to civilian educators. The course description supplements the credit recommendations by summarizing the nature of a given course.

Throughout the evaluation process, evaluators are encouraged to exercise professional judgment in applying the evaluative criteria and procedures. This position reflects the Commission's belief that sound educational evaluation is more dependent on professional judgment and expertise than on rigid application of criteria.

The Commission on Educational Credit continually reviews its criteria and procedures. Evaluators are encouraged to provide feedback and recommendations for consideration by the Commission.

Selection of Evaluators

Nominations for course evaluators are requested from regional accrediting associations, professional and disciplinary societies, educational associations, and postsecondary institutions. Graduate level credit recommendations are generally determined by gradu-
ate school deans and professors nominated by the president of the Council of Graduate Schools in the United States.

The criteria for the selection of formal course evaluators are as follows:

1. Area of an evaluator's competence, as evidenced by formal training and experiences, will closely approximate the area of student training to be evaluated.

2. Preference will be given to candidates who are subject-matter specialists with five or more years of postsecondary teaching or administrative experience, including curriculum development.

3. Preference will be given to candidates who are generally receptive to the recognition of learning that occurs in a variety of settings.

THE NAVY ENLISTED RATING STRUCTURE

The Navy Enlisted Rating Structure is used for classifying enlisted personnel, identifying personnel qualifications, and reporting personnel requirements and resources. It also provides the framework for enlisted career development through paths of advancement from paygrades E-1 (recruit) through E-9 (master chief petty officer). For ACE purposes, there are two main types of occupational classifications in the Enlisted Rating Structure:

1. General Rates (Apprenticeships)—Identifications assigned to personnel at paygrades E-1, E-2, and E-3. There are six general rates: Airman, Constructionman, Dentalman, Fireman, Hospitalman, and Seaman. Each general rate involves the performance of entry-level tasks and leads to one or more ratings.

2. Ratings—Broad enlisted occupations that encompass similar duties and functions and that, in most instances, provide paths of advancement and career development for personnel from paygrades E-4 (petty officer third class) to E-9 (master chief petty officer). Figure 1 shows the relationship between petty officer designations and paygrades. A complete list of ratings and the occupational fields to which they belong are included as Appendix B. Ratings require performance of routine tasks at the lower paygrades and more difficult tasks at progressively higher paygrades.

Figure 1: Relationships between petty officer designations and paygrades

Ratings require performance of routine tasks at the lower paygrades and more difficult tasks at progressively higher paygrades.

To supplement occupational information contained in the Navy Enlisted Rating Structure and to provide the necessary requirements for general rates and ratings, the Navy has developed two sets of standards: naval standards and occupational standards. Naval standards are tasks that are essential to the overall effectiveness of enlisted personnel in the performance of their duties. They include standards pertaining to military requirements, professional development and naval tradition. Occupational standards identify the minimum tasks required for proficiency in general rates and ratings and provide the basis for the development of training and advancement requirements and of personnel policies and procedures. For both naval standards and occupational standards each higher paygrade represents more complex duties, increased skills, and greater responsibility. Proficiency in a higher paygrade includes the ability to perform the tasks and meet the standards required for the preceding paygrades, as well as those required for the higher paygrade. The naval standards for all paygrades are included in Appendix D. A complete set of occupational standards for one rating, Air Controlman, is included in Appendix C.

In addition to the Enlisted Rating Structure, the Navy Enlisted Occupational Classification System includes two other subsystems: The Navy Enlisted Classification (NEC) Structure and Special Qualifications. The NEC Structure supplements the Enlisted Rating Structure by identifying skills requiring more specific identification than that provided by general rates and
APPENDIX A

ratings and which are not rating-wide requirements. Special Qualifications identify highly specialized occupational entities which cross several occupational areas and define the requirements of these areas. Because of the specialized nature and limited scope of the skills and qualifications required by most of the NEC Structure and Special Qualifications, NECs and Special Qualifications have not been evaluated by ACE.

The Navy Enlisted Evaluation and Advancement System

The Navy regularly evaluates the occupational proficiency of its men and women. In fact, the demonstration of occupational proficiency is directly linked to the advancement system. Only those individuals who have (1) demonstrated that they can perform the tasks required for the next higher paygrade, (2) completed the appropriate correspondence and/or residence courses for the next higher paygrade, (3) served a minimum length of time in their paygrade, and in the service, and (4) been recommended by their commanding officer are allowed to take the advancement examination.

The primary evaluation technique is the Navy-wide written examination for each paygrade of each rating. It is a 150-item multiple choice test that is based on the occupational standards and tasks for each paygrade of a given rating. It is given more weight than any other factor in the evaluation process. Persons who are not advanced in their rating until they have demonstrated that they are proficient in the next higher paygrade of the rating.

Before being considered for advancement, an individual must pass the written examination. Demonstrating proficiency in the next higher paygrade is a requirement for advancement. In addition, for advancement to petty officer third class (PO3) and petty officer second class (PO2)—paygrades E-4 and E-5—the applicable military/leadership examination must also be passed.

Examinations for petty officer third class, petty officer second class, and petty officer first class (paygrades E-4, E-5, and E-6) are administered semiannually. Those for chief petty officers, senior chief petty officers, and master chief petty officers are administered annually. Examinations for paygrade E-3 are administered by unit commanding officers when the individual has demonstrated readiness to take it. Written examinations are not used for paygrade E-2. Make-up tests are made available for Navy men and women who cannot take the test on the specified date because of extenuating circumstances.

A final multiple score is computed for each individual who takes the Navy-wide advancement examination. The final multiple score is composed of the following factors:

<table>
<thead>
<tr>
<th>Factor</th>
<th>Maximum Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Examination score</td>
<td>80</td>
</tr>
<tr>
<td>Performance Examination score</td>
<td>60</td>
</tr>
<tr>
<td>Number of Years in Service</td>
<td>50</td>
</tr>
<tr>
<td>Number of Years in Paygrade</td>
<td>20</td>
</tr>
<tr>
<td>Medals and Awards</td>
<td>15</td>
</tr>
<tr>
<td>Passed-but-not-advanced (PNA) Points</td>
<td>15</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>200</strong></td>
</tr>
</tbody>
</table>

The last factor included above, PNA points, applies to those individuals who passed the previous written examination and demonstrated they were qualified for advancement but were not advanced. This situation occurs when there is a scarcity of openings for advancement in a paygrade of a given rating and a person’s final multiple score is not high enough to compete successfully with others in that paygrade.

It was determined by the ACE staff that the written testing techniques and procedures used by the Army and Navy are very similar. Because of the similarities and because the Army testing system had already been favorably reviewed by measurement specialists retained by ACE, it was not necessary to have them review the Navy written tests. As with the Army, subject-matter and apprenticeship specialists confirmed the content validity of the tests in the course of conducting evaluations.

Further information about the Navy Enlisted Occupational Classification System and the Navy Advancement System can be obtained by contacting the OEC Information Service.

THE NAVY RATING EVALUATION SYSTEM

The Navy rating evaluation system has three major components: the selection of evaluators; the materials required for evaluation; and the procedures and guidelines evaluators use in reaching decisions and making recommendations.

Selection of Evaluators

Nominations for evaluators are requested from post-secondary institutions; professional associations; disciplinary societies; labor unions; trade associations; industry associations; educational associations; regional accrediting associations; state departments of education; state credentialing, licensing, and certifying agencies; and the Bureau of Apprenticeship and Training of the U.S. Department of Labor.

The criteria for selection of Navy rating evaluators are as follows:
1. The area of an evaluator's competency, as evidenced by formal occupational training, knowledge, and experience, will closely approximate the skills, competencies, and knowledge required for proficiency in the general rate or rating.

2. Preference will be given to candidates who are experienced in administration of apprentice training programs when a general rate or rating is related to an apprenticeable trade.

3. Preference will be given to candidates who are subject-matter specialists with five or more years of postsecondary teaching or administrative experience, including curriculum development.

4. Preference will be given to candidates who are generally receptive to the recognition of learning that occurs in a variety of settings.

An evaluator candidate is interviewed by an OEC staff member to determine whether the individual meets the selection criteria.

Evaluations are conducted by teams of at least three specialists (five when the general rate or rating is apprenticeable related). The teams are formed by OEC staff members, using the following guidelines:

1. Subject-matter specialists on an evaluation team should represent a variety of postsecondary institutional types: 1-year/2-year/4-year: public/private; vocational/technical.

2. In the evaluation of a general rate or rating that is related to an apprenticeable trade, two evaluators on the team—one representing labor and one representing management—should have experience in the administration of that apprentice training program.

3. Each team of evaluators should represent a variety of persons from within education, labor, government, industry, and business who have had teaching, supervisory, and administrative experiences.

An effort is also made to attain a diverse geographic representation among evaluators. Teams are formed based on the general rates or ratings to be evaluated. Because skills required for proficiency in a general rate or rating do not always fall neatly into civilian educational and occupational fields and often encompass two or more fields, most evaluation teams include a curriculum generalist. Provision is also made for an evaluation team, when it finds it cannot thoroughly evaluate a general rate or rating, to refer it to a particular paygrade of it to another team, or other specialists for further evaluation.

Materials Required for Evaluation

In order to make a recommendation, evaluators first identify the skills, competencies, and knowledge associated with a given general rate or rating. The materials relevant for each evaluation are made available to OEC staff members and evaluators by the Navy. Materials include the official Navy manuals that describe the duties and qualifications for each general rate and rating; the Bibliography for Advancement Study; rate training manuals and other publications used by Navy enlisted men and women in the day-to-day performance of their duties and to prepare for their advancement examinations; and the advancement examination. Additional information is obtained by observing and interviewing Navy men and women during visits to Navy bases and units.

Evaluation Procedures and Guidelines

Evaluators identify the skills, competencies, and knowledge required of Navy men and women who are qualified in a given general rate or paygrade of a rating and relate that demonstrated learning to the same attributes acquired by students who have completed a comparable postsecondary course or curriculum and by tradesmen and apprentices who have completed a related apprentice training program. Because the evaluations are based on a comparison of learning outcomes, the amount of time a given Navy enlisted man or woman may have spent acquiring occupational proficiency is not taken into consideration. The emphasis is on translating the learning demonstrated through occupational proficiency into terms used in formal postsecondary civilian education systems to recognize the same learning. This reflects the belief of the Commission on Educational Credit that the value of learning is not dependent on where or how the learning occurs.

Evaluation teams are assigned four tasks in the evaluation of each general rate and rating: (1) to identify the learning represented by occupational proficiency by reviewing the pertinent written materials and by observing Navy men and women performing their occupations and interviewing them and their supervisors; (2) to prepare a description of the duties, skills, competencies, and knowledge required for each general rate and paygrade of a rating; (3) to make recommendations for each general rate and paygrade of a rating based on discussion and consensus; and (4) to make specific comments and suggestions about general rates and ratings (especially in those instances when neither educational credit nor advanced standing in an apprentice training program is recommended), which are forwarded by OEC to the Chief of Naval Education and Training.

THE RECOMMENDATIONS

In order to interpret exhibits correctly, readers should become thoroughly familiar with the definiti-
APPENDIX A

Categories of Credit

Educational credit is a concept used by postsecondary institutions to quantify and record a student's successful completion of a unit of study. Postsecondary education consists of courses and programs of instruction for persons who are high school graduates or the equivalent, or who are beyond compulsory school age. ACE evaluators utilize the following categories of educational credit when formulating credit recommendations.

Vocational Certificate. This category describes course work of the type normally found in certificate or diploma (nondegree) programs that are usually a year or less in length and designed to provide students with occupational skills. This course work can also be found in curricula leading to associate degrees in applied science. Course content is specialized and the accompanying shop, laboratory, or similar practical components emphasize procedural more than analytical skills.

Lower-Division Baccalaureate/Associate Degree. This category describes course work of the type normally found in the first two years of a baccalaureate program and in programs leading to the Associate in Arts, the Associate in Science, or the Associate in Applied Science degree. The instruction stresses development of analytical abilities at the introductory level. Verbal, mathematical, and scientific concepts associated with an academic discipline are introduced, as are basic principles. Occupationally oriented courses in this category are normally designed to prepare a student to function as a technician in a particular field.

Upper-Division Baccalaureate. This category describes courses of the type found in the last two years of a baccalaureate program. The courses involve specialization of a theoretical or analytical nature beyond the introductory level. Successful performance by students normally requires prior study in the area.

Graduate Degree. This category describes courses with content of the type found in graduate programs. These courses often require independent study, original research, critical analysis, and the scholarly and professional application of the specialized knowledge or discipline. Students enrolled in such courses normally have completed a baccalaureate program.

Semester Hour Standard

Credit recommendations are expressed in semester credit hours. In determining semester hour recommendations, evaluators use the following guidelines:

1. One semester credit hour for the equivalent of 15 hours of classroom contact plus 30 hours of outside preparation; or
2. One semester credit hour for the equivalent of 30 hours of laboratory work plus necessary outside preparation, normally expected to be 15 hours; or
3. One semester credit hour for the equivalent of not less than 45 hours of shop instruction (contact hours).

Credit recommendations for courses are not derived by simple arithmetic conversion. Evaluators exercise professional judgment and consider only those portions of a course that can be equated with civilian postsecondary curricula. Intensive courses offered by the military do not necessarily require as much outside preparation as many regular college courses. Evaluators consider the factors of pre- and post-course assignments, prior work-related experience, the concentrated nature of the learning experience, and the reinforcement of the course material gained in the subsequent work setting.

The recommendations for Navy ratings are based on the skills, competencies, and knowledge learned, as demonstrated through proficiency in the rating, without reference to how much time elapsed during the learning process. The semester hour is used as a standard to express how many semester hours of appropriate course work a student would normally complete to attain the same learning outcomes or attest to the same level of competency.

Apprentice Training

Apprentice training is the composite series of progressively more difficult learning experiences in the technology and skills of a tradesman. Apprentice training may be identified in clock hours or years of reasonably continuous on-the-job training and in contact hours of related instruction. On-the-job training and work experience focus on the performance of basic skills under the direct supervision of a journeyman. Related and supplemental instruction is normally closely correlated with on-the-job training, and the subject matter stresses practical application of technology. An apprentice is a person who is engaged in learning a trade by working with, and under the direct supervision of, a qualified journeyman in all phases of the trade for a specified period of time. A journeyman is a tradesman who has satisfactorily completed an apprentice training program or achieved
proficiency in a given industry and who works without direct job supervision.

Clock Hours and Contact Hours

A recommendation for advanced standing in an apprentice training program is stated in clock hours of occupational experience and contact hours of related instruction. Clock hours are based on hours worked at a trade; contact hours are based on hours spent in the presence of a qualified instructor.

The Navy ratings recommendations are based on the skills, competencies, and knowledge learned, as demonstrated through proficiency in the rating, without reference to how much time elapsed during the learning process. Clock hours and contact hours are used to express how much of an apprentice training program an apprentice would normally complete to attain the same learning outcomes or attest to the same level of competency.

Credit for Military Service, Including Basic or Recruit Training

After the establishment of the 6-month Reserve Training Programs by the services, as authorized by the Reserve Forces Act of 1955, the Commission received many requests from educational institutions for a policy recommendation on this training. In 1957, the Commission established a credit recommendation policy for military service, including completion of the 6-month Reserve Training Program or basic (recruit) training. The policy, which was reaffirmed by the Commission in 1973, is as follows:

I. Secondary School

The Commission recommends no high school credit for military service per se, including basic or recruit training. It does recommend, however, that the physical education experiences during military service of six months or more be accepted in lieu of the mandatory high school requirement for physical education or for hygiene and health education.

II. College

1. For military service—six months to one year:
   a. The Commission recommends that six months to one year of military service, including completion of basic or recruit training, be accepted as meeting the requirements in military science at the freshman level at those institutions which normally allow credit for collegiate-level courses in this area.

   b. The Commission recommends no credit in physical education or in hygiene and health education if the applicant has completed one year or less of military service.

2. For military service—over one year:
   a. The Commission recommends that more than one year of military service, including the completion of basic or recruit training, be accepted as meeting the requirements in military science at the freshman and sophomore levels at those institutions which normally allow credit for collegiate-level courses in this area.
   b. The Commission recommends that the veteran’s total military service experiences in the areas of physical education or of hygiene and health education be considered as meeting the physical education or hygiene and health education requirements on the freshman and sophomore levels, provided the applicant’s military service was of more than one year’s duration, at those institutions which normally allow credit for collegiate-level courses in these areas.

Other Recommendations

The Defense Activity for Non-Traditional Education Support (DANTES) maintains the educational records of the service men and women who have completed SSTs, CLEP examinations, and GED Tests.

The results of courses taken under the auspices of USAFI (United States Armed Forces Institute; disestablished 1974) which carry academic credit and which were submitted prior to June 30, 1974, are available at no cost from: DANTES Contractor Representative (transcripts), 2318 South Park Street, Madison, Wisconsin 53713.

Results of Subject Standardized Tests and CLEP examinations taken under the auspices of DANTES after July 1, 1974, are available at a nominal charge from: DANTES Contractor Representative (CLEP), Educational Testing Service, P.O. Box 2819, Princeton, New Jersey 08540.

Test reports for GED Tests taken after July 1, 1974, can be obtained from: DANTES Contractor Representative (GED), GED Testing Service, American Council on Education, One Dupont Circle, Washington, D.C. 20036.

In addition, credit recommendations for USAFI courses and tests and for DANTES Subject Standardized Tests are available from the Office of Educational Credit upon written request by education officials.
Appendix B

Navy Enlisted Occupational Fields and Ratings

Navy enlisted ratings are grouped into 24 occupational fields. Each field provides opportunities for advancement and career progression among closely related ratings. The 24 occupational fields and the ratings which each field encompasses are as follows:

1. General Seamanship
   - Boatswain's Mate (BM)
   - Signalman (SM)

2. Ship Operations
   - Operations Specialist (OS)
   - Quartermaster (QM)

3. Marine Engineering
   - Boiler Technician (BT)
   - Electrician's Mate (EM)
   - Engineering (EN)
   - Gas Turbine System Technician (GS)
   - Interior Communications Electrician (IC)
   - Machinist's Mate (MM)

4. Ship Maintenance
   - Hull Maintenance Technician (HT)
   - Instrumentman (IM)
   - Machinery Repairman (MR)
   - Molder (ML)
   - Opticalman (OM)
   - Patternmaker (PM)

5. Aviation Maintenance/Weapons
   - Aircrew Survival Equipmentman (PR)
   - Aviation Anti-Submarine Warfare Technician (AX)
   - Aviation Electrician's Mate (AE)
   - Aviation Electronics Technician (AT)
   - Aviation Fire Control Technician (AQ)
   - Aviation Machinist's Mate (AD)
   - Aviation Maintenance Administrationman (AZ)
   - Aviation Ordnanceman (AO)
   - Aviation Structural Mechanic (AM)

6. Aviation Ground Support
   - Aviation Boatswain's Mate (AB)
   - Aviation Support Equipment Technician (AS)

7. Air Traffic Control
   - Air Controlman (AC)

8. Weapons Control
   - Electronics Technician (ET)
   - Fire Control Technician (FT)

9. Ordnance Systems
   - Gunner's Mate (GM)
   - Mineman (MN)
   - Missile Technician (MT)
   - Torpedoman's Mate (TM)

10. Sensor Operations
    - Electronics Warfare Technician (EW)
    - Ocean Systems Technician (OT)
    - Sonar Technician (ST)

11. Weapons Systems Support
    - Trackerman (TD)

12. Data Systems
    - Data Processing Technician (DP)
    - Data Systems Technician (DS)

13. Construction
    - Builder (BU)
    - Construction Electrician (CE)
    - Construction Mechanic (CM)
    - Engineering Aid (EA)
    - Equipment Operator (EO)
    - Steelworker (SW)
    - Utilitiesman (UT)

14. Health Care
    - Dental Technician (DT)

15. Administration
    - Legalman (LN)
    - Navy Counselor (NC)
    - Personnelman (PN)
    - Postal Clerk (PC)
    - Yeoman (YN)

16. Logistics
    - Aviation Storekeeper (AK)
    - Disbursing Clerk (DK)
    - Base Management Specialist (MS)
    - Ship's Serviceman (SH)
    - Storekeeper (SK)

17. Media
    - Illustrator Draftsman (DM)
    - Journalist (JO)
    - Lithographer (LI)
    - Photographer's Mate (PH)

18. Musician
    - Musician (MU)

19. Master-at-Arms
    - Master-at-Arms (MA)

20. Cryptology
    - Cryptologic Technician (CT)

21. Communications
    - Radioman (RM)

22. Intelligence
    - Intelligence Specialist (IS)

23. Meteorology
    - Aerographer's Mate (AG)

    - Aviation Anti-Submarine Warfare Operator (AW)
Appendix C

Naval Occupational Standards

Occupational Standards define the tasks enlisted personnel must perform to be proficient in their ratings. Knowledge required to perform a given task is assumed to be inherent in the proper performance of the task. Occupational Standards are written as task statements which are derived by personnel experts from the data resulting from a thorough analysis of the task and the rating.

The task statements are listed under topic titles. The topic titles provide a method of grouping similar standards for various ratings. Examples of topic titles are administration, publications, and maintenance planning and quality assurance. An example of a task statement for the air controlman second class administration is: "maintain air traffic operations logs and records."

Task statements are identified by five-digit numbers. The first two digits identify the topic title (38 for administration, for example). The remaining three digits identify the specific task statement. For example, the five-digit number that identifies the topic title and task statement for the air controlman second class mentioned in the preceding paragraph is 38235.

The occupational standards for the general rating, Air Controlman, follow.

GENERAL INFORMATION

Career Pattern

ACCM
ACCS
ACC
AC1
AC2
AC3
Airman Apprenticeship

Normal path of advancement to Warrant Officer and Limited Duty Officer categories is to Aviation Operations Technician (732X) and LDO Aviation Operations (632X).

Special Physical Requirements

Vision 20/200 correctable in each eye to 20/20; normal color perception; normal hearing; no speech impediment; meet the physical requirements contained in Article 15-69, Manual of the Medical Department, U.S. Navy; pass examination for Class II FAA Medical Certificate (Part 67, FAA Regulations).

Citizenship/Security Requirements

Must be eligible for access to classified information.

Air Controlmen (AC) perform air traffic control duties in air control towers, radar air traffic control facilities, and air operations offices ashore and afloat; operate radiotelephones, light signals and systems, and direct aircraft under VFR and IFR conditions; operate surveillance radar, precision radar, and identification equipment (IFF); operate ground- and carrier-controlled approach systems; assist pilots in the preparation and processing of flight plans and clearances; and maintain current flight planning information and reference materials.

Air Controlman Third Class (AC3)

46 PUBLICATIONS
46323 Identify general contents and use of the flight information publication (FLIP) system

54 LOGISTICS SUPPORT
54537 Prepare, assemble, and maintain flight packets and brief pilots on their contents

TR TRAFFIC CONTROL
63242 Interpret Federal air regulations pertaining to air traffic control by Naval control tower personnel
63243 Direct air traffic under visual flight rules
63244 Issue instructions to vehicular traffic on the airfield and to aircraft on the ground relative to taxiing, parking, and related airport information
63245 Issue oral instructions from the control tower to dispatch fire, crash, and rescue equipment for emergency landings, crashes, and accidents
63246 Record instrument flight rules (IFR) clearances and relay to aircraft
63247 Operate airport traffic control signal light gun
63248 Identify standard Navy airfield markings and lighting systems
63249 Identify types, designations, and comparative flight characteristics of U.S. military aircraft
63250 Carry out non-radar control of aircraft which have experienced an emergency situation in flight
63251 Effect radar handoff
63252 Provide advisory services utilizing air surveillance radar
63253 Interpret effect of weather and topography on the operating capability of radar, IFF and related equipment
APPENDIX C

63255 Maintain flight data and status boards
63256 Identify the types and purposes of flight assistance services
63257 Encode and decode hourly aviation weather
63258 Control aircraft utilizing precision approach radar
63259 Report and apply appropriate VFR weather minimums to air traffic control
63260 Process flight plans
77 SECURITY
77246 Carry out requirements for security of air traffic control communications
86 COMMUNICATIONS
86267 Prepare notams for release and process incoming notams
86268 Draft and process air traffic control data by teletype/interphone
86269 Operate intra/inter facility communications equipment
86270 Obtain and relay weather information to aircraft and local weather facilities
87 NAVIGATION AND TACTICAL SUPPORT
87211 Use standard aeronautical charts and publications used in air navigation
88 ELECTRICAL AND ELECTRONIC EQUIPMENT OPERATIONS
88231 Operate airfield lighting systems
88232 Check calibration and adjust radar indicators for effective target presentation
88233 Identify and monitor electronic aids to air navigation

Air Controlman Second Class (AC2)
38 ADMINISTRATION
38235 Maintain air traffic operations logs and records
46 PUBLICATIONS
46325 Use DOD catalog of charts and publications to identify and order charts and publications
63 AIR TRAFFIC CONTROL
63254 Carry out radar control of aircraft which have experienced an emergency in flight
63259 Apply Federal air regulations and manuals and Navy directives pertaining to air traffic control facilities
63260 Assign and evaluate IFP/SIF codes
63261 Control aircraft utilizing air surveillance radar
63262 Apply procedures for search and rescue operations
63263 Direct air traffic under instrument flight rules
63264 Apply procedures for locating, identifying, and tracking aircraft
63265 Interpret characteristics, purposes, and general operating procedures of landing approach systems
63266 Direct air traffic control facility base operations function
63268 Apply minimums applicable to IFR approaches and departures and special VFR operations

Air Controlman First Class (AC1)
38 ADMINISTRATION
38236 Maintains logs, publications, files, and records applicable to air traffic control facilities
44 TRAINING
44346 Carry out air traffic control facility training

Chief Air Controlman (ACC)
38 ADMINISTRATION
38237 Interpret and disseminate U.S. Navy and FAA regulations governing the operations of air traffic control facilities
38239 Prepare air traffic control facility reports
38239 Supervise the use, filing, and maintaining of publications, logs, and records
44 TRAINING
44347 Conduct emergency drills for air traffic control personnel
44348 Supervise the air traffic control facility training program
63 AIR TRAFFIC CONTROL
63271 Supervise radar air traffic control operations
63274 Supervise ATC facility flight checks

Senior Chief Air Controlman (ACCS)
20 SAFETY
20259 Manage, coordinate, and evaluate safety programs and emergency drills
35 ADMINISTRATION
35476 Provide information and advise on utilization, capabilities, reliability, and operations in own area of responsibility
35479 Prepare correspondence
35480 Establish and implement a program for interviewing, evaluating and assigning personnel to assure maximum utilization
35651 Review and submit air traffic control facility reports
44 TRAINING
44375 Organize and schedule training programs, evaluate effectiveness, and initiate improvements
50 MAINTENANCE, PLANNING AND QUALITY ASSURANCE
50713 Establish required inspection procedures; coordinate and ensure maintenance of air traffic control facility equipment
63 AIR TRAFFIC CONTROL
63272 Review and verify facility compliance with air systems command planning standards for approach zone criteria, obstruction lighting, and field marking
63272 Coordinate ATC facility flight checks
63274 Serve as air traffic control facility watch officer
Master Chief Air Controlman (ACCM)

35 ADMINISTRATION

35483 Plan, organize, implement, and control activities in compliance with policy statements, operation orders, and directives

35489 Forecast future requirements, and plan and initiate action to satisfy requirements in own area of responsibility

35490 Establish goals, objectives and priorities in own area of responsibility

35492 Review personnel, equipment and material requirements

35870 Administer an air traffic control facility

52 FINANCIAL CONTROL

52298 Develop operating budgets and monitor expenditures

APPENDIX C

63 AIRCRAFT HANDLING AND AVIATION SUPPORT

63285 Prepare and interpret letters of agreement, directives, and memoranda applicable to air traffic control

Air Controlman (AC)

Navy Enlisted Classifications

Occupational Area—Defense Grouping Code

DG-9720 Communications and Intelligence Specialists

Rating Conversion Code

AC-6999 Air Controlman Basic

AC

OS-0317 NTDS Input/Utilization Display Equipment Operator; OS AC

AC-6911 Carrier Air Traffic Control Center Controller Supervisor, AC

AC-6912 Carrier Controlled Approach Controller, AC
Appendix D

Naval Standards

Naval standards are tasks—skills and knowledge—other than those defined by occupational standards, that are essential to the overall effectiveness of enlisted personnel in the performance of their duties. They pertain to general rates and ratings for paygrades E-2 through E-9. They include standards pertaining to military requirements, professional development, and Naval tradition.

Naval standards are identified by six-digit numbers. The first three digits, always in the 900's, identify the standard topic title. The remaining three digits identify the specific task statement. For example, the number 901501 indicates that the standard topic title is "Watch, Quarter and Station Bill" and the specific task is "Procedures for preparation and station Bill."

Apprentice (E-2)

900 Military Requirements

901 WATCH, QUARTER AND STATION BILL
901201 Purpose and content of watch, quarter and station bill
902 SEAMANSHIP
902201 Terminology commonly used in deck and boat seamanship
902202 Procedures for locating an object by relative bearing and position angle measured in degrees
902203 Difference between true and relative bearings
902204 Nomenclature of deck equipment
902205 Methods of splicing rope and tying basic knots
902206 Types and sizes of line
903 DRILL
903201 Individual positions and facings used in close-order drill with arms
903202 Individual positions and facings without arms
904 UNIFORMS
904201 Qualifications to earn and wear the scarlet, blue, and gold lace service stripes
904202 Sleeve insignia and/or collar device identification of U.S. Navy enlisted rates
904203 Grade insignia and corps devices of U.S. Naval officers
904204 Regulations for correct upkeep, wearing, marking, and exchanging U.S. Navy enlisted uniforms
904205 Regulations concerning identification tags and identification cards
904206 Grade insignia of other armed service grades and comparable U.S. Navy grades
904207 Regulations for correct wearing of U.S. Navy awards
904208 Regulations concerning proper grooming standards
905 SMALL ARMS
905201 Fire the service rifle and pistol in prescribed positions
905202 Perform field stripping, cleaning, and assembling of the service rifle and pistol
905203 Precautions required to prevent hearing loss when exposed to repeated small arms fire
905204 Safety precautions to be observed in handling fire arms
906 WATCHSTANDING
906201 Relieve an armed watch
906202 Stand a proper military watch
906203 Eleven general orders of a sentry (watch)
906204 Duties and responsibilities of a lookout

906205 Duties and responsibilities of a military watch

907 COMMUNICATIONS

907201 Standard telephone procedures and phraseology when using: (A) sound-powered telephones; (B) dial telephones; (C) intercoms
907202 Procedures to break-out, man, test, and secure a shipboard sound-powered headset
907203 Pronunciation of numbers and phonetic alphabet
907204 Communications security
907205 General administrative and emergency signal flags and pennants

908 SHIP AND AIRCRAFT CHARACTERISTICS

908201 Major types of ships and aircraft of the U.S. Navy
908202 Nomenclature of superstructure, decks, and components of the hull
908203 Numbering system for decks and lettering and numbering system for compartments
908204 General characteristics and mission of U.S. ships and aircraft

910 Personnel Safety

911 SAFETY

911201 Hazards to personnel when entering or working in unventilated spaces where CO2 extinguishers have been discharged
911202 Hazards to personnel when CO2 "snow" is directed toward the face or exposed skin
911203 Precautions to be observed when handling and stowing fire extinguishers
911204 Dangers involved in letting go of a charged fire hose
911205 Dangers involved in grasping all-purpose nozzle by the control handle when securing
911206 Reasons for not using water on a Class "C" (electrical) fire
911207 Dangers involved in the operation of an internal combustion engine in an unventilated space
911208 Dangers of energizing and using electrical equipment in a space filled with explosive vapors
911209 Use, care, and stowage of the following life float equipment: (A) signal mirror, day and night distress signal, and dye marker; (B) first aid kit, rations and tarpaulin
911210 Typical hazardous or unacceptable environmental conditions
911211 Safety precautions when embarked in small boats
911212 Safety precautions for recreation and sports
APPENDIX D

912 FIRST AID AND PERSONAL HYGIENE

912001 Procedure for applying a battle dressing
912002 Procedures for control of arterial and venous bleeding
912003 Procedures for preparing and applying an improvised splint
912004 Procedures for artificial respiration by the mouth-to-mouth and alternate methods
912005 Procedures for transporting an injured person by firefighter's lift and tied-bands crawl
912006 Procedure for closed chest cardiac massage
912007 Purpose, general rules, and limitations of first aid
912008 Symptoms of and immediate treatment for shock
912009 Procedures for resuscitating a patient in contact with an energized electrical circuit and subsequent treatment for electrical shock
912010 Symptoms of, and first aid treatment for, simple and compound fractures and heat exhaustion and heat stroke
912011 Classification of burns, Symptoms of, and first aid treatment for each
912012 Reasons for maintaining sanitary conditions
912013 Proper body cleanliness and personal care of the feet, hair, and scalp
912014 Procedures and required equipment to maintain good oral hygiene

913 SURVIVAL

913001 Perform prescribed minimum swimming qualifications
913002 Techniques for preparing and using clothing and buoyant objects for staying afloat
913003 Proper use and care of inherently buoyant and CO₂-inflatable life-jackets
913004 Techniques of swimming through oil, flames, and debris under simulated conditions
913005 Preparation and methods for abandoning ships; best ways of going over the side; and type of clothing to be taken in abandoning ships in hot or cold climate
913006 Use of distilling equipment for obtaining drinking water; methods of catching and stowing rainwater
913007 Fundamentals of escape, evasion and the basic concepts of land survival

914 NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC) DEFENSE

914001 Use of protective mask in a chamber or environment of NBG control agents (CB) or dense smoke
914002 Use of currently issued protective and self-aid equipment and methods of adapting regularly issued clothing and equipment for protection against contamination
914003 Markers used to indicate that an area is contaminated
914004 Means by which biological operation agents enter the body
914005 Methods of dissemination of agents: (A) aerosols; (B) sabotage
914006 Methods used to decontaminate personnel
914007 Use of atropine
914008 Characteristics and effects of the following: (A) nerve agents; (B) blister agents; (C) blood agents; (D) choking agents; (E) screening agents
914009 Protective measures to be followed in the event of NBC attack
914010 Duties of member of a decontamination team
914011 Duties of member of a monitoring team other than monitor
914012 General procedures to be followed prior to, during, and after attack as set forth in the NBC defense bills

915 ENVIRONMENTAL POLLUTION CONTROL

915001 Basic Navy policy regarding environmental conditions and pollution control

920 MATERIAL CONDITION

92010 Proper use and care of inherently buoyant and CO₂, flammable, abrasives, and pyrotechnics; (A) explosives, and flammables; (B) screening agents; (C) electric and electronic equipment; (D) compressed gas; (E) compressed air; (F) liquids under pressure; (G) steam; (H) lifelines, ladders, and scaffolding; (I) heavy weights and moving equipment; (J) personnel aloft or over the side; (K) voids, tanks, and closed compartments; (L) cutting and welding operations; (M) power tools; (N) high powered transmitters

92011 Characteristic and effects of the following: (A) nerve agents; (B) blister agents; (C) blood agents; (D) choking agents; (E) screening agents
92012 Protective measures to be followed in the event of NBC attack
92013 Duties of member of a decontamination team
92014 Duties of member of a monitoring team other than monitor
92015 General procedures to be followed prior to, during, and after attack as set forth in the NBC defense bills
923201 General scope and principles of security requirements and procedures pertinent to classified information and material: (A) basics of security; (B) security of classifications; (C) compromise of classified information; (D) security areas; (E) marking of classified material

930 Discipline

931 MILITARY CONDUCT

931201 Authority, of, and services rendered by military police
931202 Basic content and responsibilities stated in general order 21 and by Articles I through VI of the code of conduct for members of the Armed Forces of the United States

932 UNIFORM CODE OF MILITARY JUSTICE

932201 Purpose of military discipline and punishment
932202 General content of the following articles: (A) commanding officer's nonjudicial punishment (Art. 15); (B) compulsory self-incrimination prohibited (Art. 31); (C) complaints of wrongs (Art. 138); (D) courts-martial classified (types) (Art. 16); (E) cruel and unusual punishment (Art. 55); (F) punitive articles (77-134) and Navy regulations, chapter 11; (G) apprehension and restraint (Art. 7 through 14); (H) persons subject to the code (Art. 2); (I) redress of injuries to property (Art. 139); (J) articles to be explained (Art. 137); (K) who may serve on courts-martial (Art. 23); (L) appointment of trial counsel and defense counsel (Art. 27); (M) unlawfully influencing action of court (Art. 37); (N) duties of trial and defense counsel (Art. 38)

940 Professional Development

941 CAREER INFORMATION

941201 Purpose of entry series NEC codes
941202 Reasons for and consequences of five types of discharges
941203 Basic understanding of the enlisted career structure and eligibility for advancement
941204 Purpose and effect of marks received on report of enlisted performance evaluation
941205 Meaning of accrued, earned, emergency, excess, and advance leave
941206 Basic understanding of military pay system
941207 Basic understanding of educational and training opportunities
941208 Contents of the enlisted service record
941209 Opportunity for acquiring a Naval commission
941210 Eligibility for and cost of government insurance benefits
941211 Reenlistment quality control program
941212 Incentives for making the Navy a career

950 Naval Tradition

951 SEA POWER

951201 Basic Naval history and the evolution of today's Navy
951202 Basic roles and missions of the Navy

952 CUSTOMS AND COURTESIES

952201 Perform the hand salute
952202 Perform the rifle salute
952203 Procedures for proper handling of the ensign and jack
952204 When and to whom the individual hand and rifle salutes are to be rendered

953 ORGANIZATION

953201 Purpose and function of the chain of command

960 Human Goals

961 EQUAL OPPORTUNITY AND HUMAN RIGHTS

961201 Basic Navy policy for equal opportunity and human rights

962 DRUG AND ALCOHOL ABUSE

962201 Basic Navy policy for drug and alcohol abuse

970 International Agreements

970201 General provisions of Geneva Convention with respect to treatment and rights of POWs and information that every POW is required to provide, when questioned

972201 General purpose of the status of forces agreement concerning personnel of the armed forces in foreign countries

Apprentice (E-3)

All preceding requirements and the following additional requirements:

910 Personnel Safety

914 NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC) DEFENSE

914301 Effects of nuclear radiation (alpha and beta particles, gamma rays and neutrons)
914302 Meaning of the following terms as applied to radiological defense: (A) rad; (B) radiation dose; (C) radiation dose rate; (D) safe stay time; (E) material condition "Circle William"
914303 Differences between radiation and radiological contamination
914304 Purpose and use of the casualty dosimeter in terms of when used, by whom, and for what purpose
914305 Purpose, use of, and how to interpret a self-reading pocket dosimeter

920 Material Condition

922 SURFACE PRESERVATION

922301 Basic methods and procedures to prepare and paint a surface

922302 Fixtures and devices to which paint or liquid cleaners should not be applied

950 Naval Tradition

953 ORGANIZATION

953301 Purpose and content of the ship's/command's organization and regulations manual
953302 Standard unit organization and general responsibility of each department
APPENDIX D

Petty Officer Third Class (E-4)

All preceding requirements and the following additional requirements:

900 MILITARY REQUIREMENTS
903 DRILL
903401 Conduct close-order drill
906 WATCHSTANDING
906401 General duties of petty officer of the watch, section leader, master-at-arms, police petty officer, and military police

920 MATERIAL CONDITION
921 DAMAGE CONTROL
921401 Identification of damage control lockers and use of contents (construction ratings exempt)

922 SURFACE PRESERVATION
922401 Appropriate types of cleaning solvents for interior and exterior use

930 Discipline

931 MILITARY CONDUCT
931401 How and when to place personnel on report

940 Professional Development

943 LEADERSHIP
943401 Fundamentals of leadership: (A) guided by reason and experience based on rules and regulations; (B) recognition of value and worth of the individual; (C) recognition of basic equality of man
943402 Meaning and application of the following leadership principles: (A) knowing the job to be done; (B) exhibiting and instilling pride in high standards of work; (C) seeking additional responsibility; (D) Knowing own men and recognizing individual differences; (E) possessing own sense of responsibility; (F) delegating authority; (G) keeping men informed; (H) being foresighted; (I) commanding and leading; (J) promoting morale; (K) when to praise, censure, and warn

944 MANAGEMENT
944401 Principles of the maintenance and material management system in own area of responsibility

Petty Officer Second Class (E-5)

All preceding requirements and the following additional requirements:

900 Military Requirements
901 WATCH, QUARTER AND STATION BILL
901501 Procedures for preparation and maintenance of the watch, quarter and station bill

910 Personnel Safety

914 NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC) DEFENSE
914501 Basic organization of teams to decontaminate radioactive areas and areas contaminated by chemical or biological agents

940 Professional Development

941 CAREER INFORMATION
941301 Purpose and effect of marks received on evaluation report as applicable to paygrades E-5 through E-9

942 TRAINING
942501 Procedures for the indoctrination of personnel reporting for duty

942502 Methods of organizing appropriate subject matter and instructing a group by the demonstration method, observing the following steps: (A) setting objectives; (B) presenting the subject matter; (C) providing trainee application through practical work and drill; (D) summarizing key points; (E) testing trainee achievement

942503 Maintenance of division training records

950 Naval Tradition

952 CUSTOMS AND COURTESIES
952501 Duties and responsibilities of quarterdeck watch officer

953 ORGANIZATION
953501 Names, abbreviations and broad responsibilities of the bureaus and systems commands of the Navy Department

Petty Officer First Class (E-6)

All preceding requirements and the following additional requirements:

940 Professional Development

941 CAREER INFORMATION
941601 Eligibility for and cost of survivor's benefit plan

944 MANAGEMENT
944601 Contents and preparation of enlisted performance evaluation forms
944602 Relationship between Bureau of Naval personnel, fleet commander billet priorities, and detailing procedures

Chief Petty Officer (E-7)

All preceding requirements and the following additional requirements:

910 Personnel Safety
911 Safety
91170 Procedures for preliminary investigation of personal injury/death including completion of accident report forms

920 Material Condition
921 DAMAGE CONTROL
921701 Function of personnel protective clothing system as stated in disaster control (ashore and afloat) and Navsea Technical Manual

940 Professional Development

941 CAREER INFORMATION
941701 Supervisory responsibilities for the career counseling program

942 TRAINING
942701 Methods of developing and administering a written test which includes multiple-choice, true-false, and completion type questions
942702 Use of graphic or visual training aids
942703 Procedures for instructing by each of the following methods: (A) lecture; (B) questions and guided instruction; (C) drill and practical work; (D) written study materials; (E) on-the-job training

944 MANAGEMENT
944701 Procedures for preparation and submission of budget requests for management of quarterly allotments within area of responsibility
944702 Administration of the procurement, care, preservation, stowage, inventory and disposal of stores, equipment, and repair parts within area of responsibility
General function and use of Navy Enlisted Classification (NEC) System

Responsibility for signature authority on official documents

Preparation of reports

Standards to follow in indoctrinating personnel in completing enlisted performance evaluation forms

Critique and follow-up procedures used by petty officers to counsel personnel on their performance evaluations

950 Naval Tradition

953 ORGANIZATION

953701 General organization and operation of chief petty officer messes

Senior Chief Petty Officer (E-8)

All preceding requirements and the following additional requirements:

940 Professional Development

942 TRAINING

942801 Methodology for planning, organizing, directing, and coordinating programs

944 MANAGEMENT

944801 Regulations and policies for preparing and conducting administrative, material, and operational readiness inspections

944802 Procedures for conducting formal and informal investigations

944803 Management techniques for the following: (A) fiscal responsibility; (B) production efficiency; (C) personnel administration

944804 Preparation and presentation of briefings

944805 Procedures for establishing programs of individual and group counseling regarding drug abuse, excessive consumption of alcohol, and personal financial management

944806 Duties and responsibilities of a division officer

944807 Procedures for the following: (A) Rate/NEC changes in manpower authorization (OPNAV Form 1000/2 and enlisted distribution and verification report (NAVPERS 1080-14); (B) School quotas; (C) NEC assignment to personnel

944808 Coordinating procedures for preparation and implementation of local directives, regulations, bills, orders, reports, and training plans

Master Chief Petty Officer

All preceding requirements.
# Navy Occupational Title Index

The following columns cross-reference Navy enlisted occupations to exhibit ID numbers. Titles are listed alphabetically.

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<th>Navy Occupational Title</th>
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**Keyword Index**

This index is designed to provide rapid access to the courses described in the course exhibit section. Titles of courses are arranged alphabetically under keywords which have been extracted verbatim from the titles. For example, the keyword *Data Processing* is followed by all titles containing the words *Data Processing*.

To locate a specific course, identify a word or group of words in the title which seems to be unique or descriptive. For example, the title *Data Processing Specialist, COBOL* can be found under the keywords *Data-Processing or COBOL*. Similarly, the title *Russian Technician* can be found under the keyword *Russian*.

The ID number for each course is displayed to the right of the title. Refer to that number in the course exhibit section for a full description of the course.

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NV-1606-0004

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Indoclitnation

NV-2202-0090

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ASIO)

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Terrier Radar Set, AN/SPG-55B Continuous Wave Acquisition and Tracking (CWAT)
NV-1715-0693

Terrier Radar Set AN/SPG-55B Mod 5
NV-1715-0526

Terrier Radar Set AN/SPG-55B Mod 5 (Fleet Input)
NV-1715-0597

AN/SPH-2
Electronic Warfare Technician, Class C, Radar Data Recorder-Reproducer AN/SPH-2 and Video Recorder-Reproducer 15-E-27 Maintenance
NV-1715-0296

AN/SPN-10
AN/SPN-10 Operator
NV-1715-0482

Carrier Air Traffic Control Center Equipment Maintenance AN/SPN-10, Class C
NV-1715-0337

AN/SPN-12 (XN-4)
Carrier Air Traffic Control Center Equipment Maintenance AN/SPN-6 and AN/SPN-12 (XN-4), Class C
NV-1715-0715

AN/SPN-29
AN/SPN-29 Receiver
CG-1715-0006

AN/SPN-30
AN/SPN-30 Receiver
CG-1715-0008

AN/SPN-35
Carrier Air Traffic Control Center Equipment Maintenance, AN/SPN-35, Class C
NV-1715-0713

AN/SPN-38
Electronics Technician, Class C, AN/SPN-38 Loran Receiving Set Maintenance
NV-1715-0364

Loran Receiving Sets AN/SPN-38 and AN/WPN-5 Operation, Maintenance and Functional Checkout
NV-1715-0131

AN/SPN-40
AN/SPN-40 Radio Navigation Set (Electronics Technician, Class C)
NV-1715-0015

AN/SPN-41
Carrier Air Traffic Control Center Equipment Maintenance AN/SPN-41
NV-1715-0230

AN/SPN-42
All Weather Carrier Landing System Equipment Maintenance, AN/SPN-42, Class C
NV-1715-0286

Automatic Carrier Landing System Equipment Maintenance AN/SPN-42 (ET), Class C
NV-1715-0286

AN/SPN-43
Carrier Air Traffic Control Center Equipment Maintenance, Radar Set AN/SPN-43, Class C
NV-1715-0236

AN/SPN-44
Carrier Air Traffic Control Center Equipment Maintenance AN/SPN-44
NV-1715-0234

AN/SPN-6
Carrier Air Traffic Control Center Equipment Maintenance, AN/SPN-6 and AN/SPN-12 (XN-4), Class C
NV-1715-0715

Carrier Air Traffic Control Center Equipment Maintenance (AN/SPN-6), Class C
NV-1715-0293

AN/SPQ-5A
Terrier Radar AN/SPQ-5A
NV-1715-0291

AN/SQS-10
Clutter Suppressor and Automatic Alarm for the AN/SQS-10
NV-1715-0433

AN/SPS-29
Electronics Technician, Class C, AN/SPS-29 Radar Set
NV-1715-0024

AN/SPS-29C
AN/SPS-29C Radar Set Maintenance (Electronics Technician, Class C)
NV-1715-0756
AN/SPS-29E
AN/SPS-29E Radar Set Maintenance
(Electronics Technician, Class C)
NV-1715-0749

AN/SPS-37
Electronics Technician, Class C,
AN/SPS-37, 37A Radar Sets and
AN/SPA-63 Countermeasures Receiving
Group
NV-1715-0298

AN/SPS-39
AN/SPS-39A Radar Operation and
Maintenance (AN/SPS-39 Radar
Maintenance)
NV-1715-0233
AN/SPS-39 Radar Set
NV-1715-0233

AN/SPS-40
Electronics School AN/SPS-40 Radar Set
Maintenance
NV-1715-0557

AN/SPS-40A
Electronics Technician Class C, AN/SPS-
40A Radar Set Maintenance
NV-1715-0006

AN/SPS-40B
AN/SPS-40B/C/D Radar Set Maintenance
NV-1715-0809
AN/SPS-40B Radar Set Maintenance
(Electronics Technician, Class C)
NV-1715-0809

AN/SPS-40B/C/D
AN/SPS-40B/C/D Radar Set Difference
Maintenance
NV-1715-0745
AN/SPS-40B/C/D Radar Set Maintenance
NV-1715-0809

AN/SPS-43A
AN/SPS-43A/37A Radar Set Maintenance
(Electronics Technician, Class C)
NV-1715-0790

AN/SPS-48
AN/SPS-48 Radar Set
NV-1715-0304

AN/SPS-52
AN/SPS-52 Radar Set
NV-1715-0524

AN/SPS-8
Electronics Technician, Class C,
AN/SPS-8 Radar Maintenance
NV-1715-0305

AN/SPS-T3
AN/SPS-T3 Radar Trainer Class C
Maintenance
NV-1715-0199

AN/SPW-2B
Talos Radar AN/SPW-2B
NV-1715-0793
Talos Radar AN/SPW-2B, Class C
NV-1715-0278

AN/QA-13
AN/QA-13 (V) Independent Variable
Depth Sonar Operation and Maintenance
NV-1715-0772

AN/SQ-14
AN/SQ-14 Maintenance (Enlisted)
NV-1715-0290

AN/SQ-23
Sonar AN/SQ-23 (PAIR) Operator
Basic
NV-1715-0860

AN/SQ-23A
Sonar AN/SQ-23A (PAIR)
Organizational Maintenance
NV-1715-0859

AN/SQ-17
Sonar AN/SQ-17 and AN/SKR-4
Organizational Maintenance
NV-1715-0862
Sonar AN/SQ-17 Organizational
Maintenance
NV-1715-0862

AN/SQ-23
An/SQ-23, 23A, 23B, 23C
Maintenance and ASPECT
NV-1715-0277
Sonar AN/SQ-23 D-G Series (TRAM)
Maintenance
NV-15-0864
Sonar AN/SQ-23 D-G Series RAM,
MIP, LORA Maintenance
NV-1715-0864
Sonar AN/SQ-23 Series (Sonar)
Operator Basic
NV-1715-0857

AN/SQ-26
AN/SQ-26 AXR & CX Operator
NV-1715-0420
AN/SQ-26 AXR Electronic
Maintenance
NV-1715-0300
Sonar AN/SQ-26 AX(R) and CX
Operations Basic
NV-1715-0420
Sonar AN/SQ-26 AX(R) and CX
Maintenance
NV-1715-0405
Sonar AN/SQ-26 AX(R) and CX
Operations Basic
NV-1715-0420
Sonar AN/SQ-26 AX(R) and CX
Maintenance
NV-1715-0405
Sonar AN/SQ-26 Series Sonar Operator
Basic
NV-1715-0420

AN/SQ-26CX
Sonar AN/SQ-26CX and AN/SQ-53
Maintenance
NV-1715-0405
Sonar AN/SQ-26CX Maintenance
NV-1715-0405
Sonar Detecting-Ranging Set AN/SQ-26CX
NV-1715-0405

AN/SQ-35
Sonar AN/SQ-35 (IVDS) Operator
NV-1715-0858
Sonar AN/SQ-35(V) AN/SQ-38
Operator Basic
NV-1715-0858

AN/SQ-35(V)
Sonar AN/SQ-35(V) Maintenance
NV-1715-0866

AN/SQ-38
Sonar AN/SQ-35(V) AN/SQ-38
Operator Basic
NV-1715-0858
Sonar AN/SQ-38 Maintenance (USCG)
NV-1715-0404

AN/SQ-39
Sonar AN/SQ-39 Through 46 and
Aspect Maintenance
NV-1715-0783

AN/SQ-53
Sonar AN/SQ-53 Operator Basic
NV-1715-0861

AN/SQ-54
AN/SQ-54B and AN/SKR-4 (LAVA)
Maintenance
NV-1715-0320
Sonar AN/SQ-54B Organizational
Maintenance
NV-1715-0320
Sonar AN/SQ-54B/SKR-4 Maintenance
NV-1715-0320

AN/SRA-33
Electronics Technician, Radio Sets
AN/URC-9, AN/SRC-21, AN/SRC-20
with Antenna Group AN/SRA-
33 (Class A and C)
NV-1715-0092
Electronic Technician, AN/URC-9,
AN/SRC-20, AN/SRC-21 Radio Sets
with AN/SRA-33 Antenna Coupler
(Class A and C)
NV-1715-0092

AN/SRA-60
AN/VCC-2, AN/VRC-46 and AN/SRA-
60 Telephone-Telegraph Communication
System
NV-1715-0249

AN/SRC-20
AN/SRC-20, AN/SRC-21 Radio Sets
Maintenance (Electronics Technician,
Class C)
NV-1715-0089
AN/SRC-20, Operation and
Maintenance, Enlisted
NV-1715-0089
AN/SRC-20 Radio Transceiver
NV-1715-0089
Electronics Technician, Radio Sets
AN/URC-9, AN/SRC-21, AN/SRC-20
with Antenna Coupler Group AN/SRA-
33 (Class A and C)
NV-1715-0092
Electronic Technician, AN/SRC-20/21
Radio Set Maintenance
NV-1715-0092
Electronic Technician, AN/URC-9,
AN/SRC-20, AN/SRC-21 Radio Sets
with AN/SRA-33 Antenna Coupler
(Class A and C)
NV-1715-0092
Radio Transceiver AN/SRC-20
Maintenance
NV-1715-0031
Transceiver AN/SRC-20 Combined
Maintenance
NV-1715-0089

AN/SRC-20/21
(AN/SRC-20/21 Radio Set Maintenance
NV-1715-0092

AN/SRC-21
AN/SRC-20, AN/SRC-21 Radio Sets
Maintenance (Electronics Technician,
Class C)
NV-1715-0088

AN/SRN-12
Electronics Technician, Class C,
AN/SRN-12 Omega Receiving Set
Maintenance
NV-1715-0201

AN/SRN-14
Electronics Technician, AN/SRN-14,
Omega Receiver Maintenance, Class C
NV-1715-0590
AN/UR14 - 20
AN/URC-58
AN/URT-23
AN/USQ-20
AN/UXH-2B
AN/UYK-5(V)
AN/UYK-7
AN/VCC-2
AN/VRC-46
AN/WIC-2
AN/WIC-2
AN/WIC-2
AN/WRC-1
AN/WRC-1
AN/WRC-1
AN/WRR-2
AN/WRT-2
AN/WRT-2
AN/WSC-3
AN/WSC-3
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Special Communications Equipment
AN/WRA-3 Maintenance
AN/WRC-1 Radio Set Maintenance
Radio Transceiver AN/WRC-1 Family Equipment
AN/WRN-5 Combined Maintenance
Loran AN/WRN-5 Combined Maintenance
Satellite Navigation System AN/WRN-5
Satellite Receiver AN/WRN-5 Combined Maintenance, Class C-1
AN/WRR-2 Electronics Technician Class C, AN/WRT-2 and AN/WRR-2
AN/WRT-2 Radio Transmitter Maintenance (Electronics Technician, Class C)
Electronics Technician Class C, AN/WRT-2 and AN/WRR-2
Special Communications Equipment
AN/WRT-4 Combined Maintenance
Transmitter AN/WRT-4 Combined Maintenance
AN/WSC-3 Satellite Communications Set and OE-82B/WSC-1(V) Antenna Group
AN/WSC-5 Tactical Satellite Communications System Maintenance
Tactical Satellite Communications Equipment Maintenance AN/WSC-5(V)

APOM(O)
APOM(O)

AP-56
AP-56 Indicat Assembly
NV-1715-0707

Appliance
Orthopedic Appliance Mechanics
Orthopedic Appliance Technician
Orthopedic Appliance Technician, Class C

Approach
Ground Controlled Approach Controller, Class C

Approach
Ground Controlled Approach Electronics Maintenance, Radar Set AN/CPN-4A, Class C
Ground Controlled Approach Electronics Maintenance (Radar Set AN/FPN-36), Class C
K-16 KEYWORD INDEX

NV-1715-0217
Ground Controlled Approach Electronics Maintenance, Radar Set AN/MPN-5, Class C

NV-1715-0080
Ground Controlled Approach Electronics Technician, AN/MPN-5, Class C

NV-1715-0080
Ground Controlled Approach Electronics Technician, Radar Set AN/MPN-1B, Class C

NV-1715-0078
Ground Controlled Approach Engineer, Class C, AN/MPN-5

NV-1715-0081
Ground Controlled Approach Maintenance (Engineer), Class C

NV-1715-0081
Ground Controlled Approach Maintenance (Engineer), Radar Sets AN/CPN-4A and AN/MPN-5, Class C

NV-1715-0081
Ground Controlled Approach Operator, Class C

NV-1715-0122
Ground Controlled Approach/Radar Air Traffic Control Center Electronics Maintenance Officers, Class O

NV-1715-0670
AQA-4(V), S-2D/E AQA-4(V) Indicator Group System Intermediate Maintenance

NV-1715-0561
Arabic
Arabic

DD-0602-0001
DD-0602-0002
DD-0602-0003
DD-0602-0004
DD-0602-0006
DD-0602-0009

NV-1715-0195
ARC-160 Communications System

CG-1715-0029
ARC-97
E-1B ARC-97 Radio Repeater System Maintenance

NV-1715-0481
ARCO
Airborne Radio Communications Operator (ARCO)

NV-1715-0631
Armanent
A-4 Armament System Organizational Maintenance

NV-1715-0167
A-6A Armament Systems Organizational Maintenance

NV-1715-0084
A-7 Armament Systems Maintenance

NV-1715-0173
A-7E Armament System Maintenance

NV-1704-0203
A-7E C-8155 Armament Station Control Unit Intermediate Maintenance

NV-1715-0056
AN/AWM-55(V) Armament Station Control Unit Test Set Intermediate Maintenance

NV-1715-0174
Aviation Fire Control Technician

NV-1715-0140
F-14 Armament Systems Maintenance Technician (Crew Member), Organizational Maintenance

NV-1704-0221
F-4B/J Armament, Missile and Weapons Control System Maintenance

NV-1715-0632
F-4B/J Armament, Missile and Weapons Control System Organizational Maintenance

NV-1715-0632
F-8 Armament System Organizational Maintenance

NV-1715-0181
RA-5C Armament Intermediate Maintenance

NV-1704-0166
Strike Armament Intermediate Maintenance Repair

NV-1715-0571
Armored
Armed Forces Staff College

DD-0326-0001
Armorer
Infantry Weapons Armorer

MC-1601-0006
MC-2204-0020

Infantry Weapons Armorer (Basic)

MC-2204-0052

Armors
Infantry Weapons Armorers (Advanced)

MC-2204-0044

Arms
Supporting Arms Coordination

NV-2202-0055
Supporting Arms Coordinator

NV-2202-0055

Arresting
Catapult and Arresting Gear, Class C

NV-1710-009
Catapult, Arresting Gear and Visual Landing Aids (C-13 Catapult and MK-7 Arresting Gear), Class C

NV-1710-0006

Catapult, Arresting Gear and Visual Landing Aids (C-7/C-11 Catapults and MK-7 Arresting Gear), Class C

NV-1710-0005

Catapult, Arresting Gear and Visual Landing Aids CVA (C-13 Catapults), Class C

NV-1710-0006

Catapult, Arresting Gear, and Visual Landing Aids CVA (C-7/11 Catapults), Class C

NV-1710-0005

Catapult, Arresting Gear and Visual Landing Aids (CVS) (H-8 Catapults and MK-5 Arresting Gear)

NV-1710-0029

CVS Catapult, Arresting Gear, and Visual Landing Aids, Class C.

NV-1710-0007

Artillery
Artillery Electronic Equipment Repair

MC-1710-0003

Artillery Electronic Equipment Repairman

MC-1710-0003

Artillery Officer Orientation

MC-2204-0045

Artillery Scout Observer

MC-2204-0032

Artillery Weapons Repairman

MC-1601-0005

MC-1710-0011

MC-2204-0022

Artillery Weapons Repairman (Advanced)

MC-1710-0027

Artillery Weapons Repairman (Basic)

MC-1710-0011

Field Artillery Batterman

MC-2204-0010

Field Artillery Fire Controlman

MC-2204-0033

Field Artillery Operations Man

MC-2204-0040

Light Antiaircraft Artillery (AAA) Fire Control Repair

MC-1715-0034
MC-1715-0036

Medium Antiaircraft Artillery (AAA) Fire Control Repair

MC-1715-0056

Tracked Vehicle Repairman Self-Propelled Artillery

MC-1703-0006

Tracked Vehicle Repairman (Self-Propelled Artillery), Basic

MC-1703-0006

ASA-16
P-3 ASA-16 System Maintenance, No.

50

NV-1715-0477

ASB-7
A3B ASB-7 Radar Stabilization and Auxiliary Subsystems Maintenance (Less CP-209 and AN/APN-122)

NV-1715-0363

Asshore
NOR Defense Ashore

NV-0801-0005

NBC Warfare Defense Ashore

NV-0801-0005

Supply Ashore Refresher

NV-1405-0011

ASMD-70
Terrier ASMD-70 55B Radar Update

NV-1715-0801

ASPECT
AN/SQS-23, 23A, 23B; 23C Maintenance and ASPECT

NV-1715-0277

Sonar AN/SQS-39 Through 46 and Aspect Maintenance

NV-1715-0783

Asphalt
EO*C” Asphalt

NV-1710-0062

ASR
Model 28 ASR Teletypewriter Maintenance

NV-1715-0528

ASROC
ASROC Launching Group Mk 16

NV-1715-0770

Asroc Missile Assembly and Maintenance

NV-1715-0630

Gunner’s Mate Class C ASROC Launching Group

NV-1715-0626

Assault
Assault Amphibian Vehicle Crewman

MC-1708-0001

Assault Boat Coxswain

MC-1708-0006

Assault Boat Engineer

NV-1712-0009

River Assault Craft Training

NV-1708-0001

Ataman
Ataman Assaultman

MC-2204-0049

Assembler
IBM System 360 OS Assembler Language

MC-1402-0031

Marine Assembler Language Programming

MC-1402-0040
**K-24 KEYWORD INDEX**

**Collection**
- Cryptologic Technician Collection
  - Branch
  - NV-1715-0836

**Combat**
- Close Combat Instructor
  - NV-1715-0836
- Combat Engineer (Advanced)
  - NV-1715-0836
- Combat Engineer Basic
  - NV-1715-0836
- Combat Engineer Basic Specialist
  - NV-1715-0836
- Combat Engineer Officer
  - NV-1715-0836
- Combat Information Center (CIC) Officer, Class O
  - NV-1715-0836
- Combat Information Center (CIC) Watch Officer, Class O
  - NV-1715-0836
- Combat Sensor Warfare Training
  - NV-1715-0836
- DLG 6-16 Combat System
  - NV-1715-0836
- Inactive Duty Reserve Combat Information Center (CIC) Class—Basic, Supervisory and Officer Team Training
  - NV-1715-0836
- Infantry Replacement and Individual Combat Training
  - NV-1715-0836
- Marine Enlisted Basic Combat Intelligence
  - NV-1715-0836

**Combustion**
- Automatic Combustion Control Maintenance
  - NV-1715-0836

**Command**
- Amphibious Command Indoc
  - NV-1715-0836
- College of Naval Command and Staff
  - NV-1715-0836
- Command and Control
  - NV-1715-0836
- Command Course
  - NV-1715-0836
- Command Intelligence Officer (CIO)
  - NV-1715-0836
- Marine Corps Command and Staff College
  - NV-1715-0836
- School of Naval Command and Staff
  - NV-1715-0836
- SSBN Command Weapons System Orientation—Polaris
  - NV-1715-0836
- SWS (Strategic Weapons System) Command Polaris
  - NV-1715-0836

**Commissaryman**
- Commissaryman, Class A
  - NV-1715-0836
- Commissaryman-Steward, Class A
  - NV-1715-0836
- Commissaryman-Steward, Class C
  - NV-1715-0836
- Commissaryman-Steward Management Principles, Class C
  - NV-1715-0836

**Common**
- Common User Digital Information Exchange System (CUDIXS) Maintenance
  - NV-1715-0836
- Common Users Digital Information Exchange System (CUDIXS) Operators
  - NV-1715-0836

**Communication**
- A-4F/L/T-AF Communication
  - NV-1715-0836
- Navigation Information (CNI)/Weapons Systems Organizational Maintenance
  - NV-1715-0836
  - NV-1715-0836
  - NV-1715-0836
- AN/ARC-51, 51A and 51AX Communication Systems Intermediate Maintenance
  - NV-1715-0836
- AN/ARC-54 VHF Communication Set Intermediate Maintenance
  - NV-1715-0836
- Basic Communication Officer
  - NV-1715-0836
- CH-53 Communication/Navigation and Identification (CNI) Systems Organizational Maintenance
  - NV-1715-0836
- Communication Center Chief
  - NV-1715-0836
- Communication Center Manager
  - NV-1715-0836
- Communication Central, AN/TGC-37, System Maintenance
  - NV-1715-0836
- Communication Officer
  - NV-1715-0836
- Communication Officer Afloat
  - NV-1715-0836
- Communication Officer Fleet
  - NV-1715-0836
- Communication Officers Orientation
  - NV-1715-0836
- E-2A AN/ASQ-52 Data Communication System Special Support Equipment Intermediate
  - NV-1715-0836
- E-8 Communication/Navigation and Identification (CNI) Systems Organizational Maintenance
  - NV-1715-0836
- High Frequency Communication Central Operator
  - NV-1715-0836
- Mobile Communication Central Technician
  - NV-1715-0836
- Operational Communication Chief
  - NV-1715-0836
- P-3 AN/ARC-51A Communication Systems Maintenance, No. 22
  - NV-1715-0836
- P-3 Communication/Navigation Organizational Maintenance
  - NV-1715-0836
- P-3 Communication/Navigation Organizational Maintenance
  - NV-1715-0836

**Communications**
- Advanced Communications Officer
  - NV-1715-0836
- Airborne Radio Communications Operator (ARCO)
  - NV-1715-0836
- AN/ARC-142 H.F. Communications System Intermediate Maintenance
  - NV-1715-0836
- AN/ARC-160 Communications System
  - NV-1715-0836
- AN/ARC-94 Class C and 490 T High Frequency (HF) Communications System and Antenna Coupler
  - NV-1715-0836
- AN/WSC-3 Satellite Communications Set and OE-828/WSC-1(V) Antenna Group
  - NV-1715-0836
- AN/WSC-5 Tactical Satellite Communications System Maintenance
  - NV-1715-0836
- ARC-160 Communications System
  - NV-1715-0836
- Aviation Electronics Technician (AT) Communications, Class A
  - NV-1715-0836
- Basic Airborne Radio Communications Operator
  - NV-1715-0836
- Communications Central Group
  - NV-1715-0836
- Communications Officer
  - NV-1715-0836
- Communications Officer (Short Course)
  - NV-1715-0836
- Communications Quality Monitoring System Operator
  - NV-1715-0836
- Communications Receiver Site Systems Maintenance, Class C1
  - NV-1715-0836
- Communications Technician, Class C
  - NV-1715-0836
- Communications Technician (M), Class A
  - NV-1715-0836
- Communications Technician "O" Branch, HFDF Communications Technical Control
  - NV-1715-0836
- Communications Technician T and R Branch Preparatory, Class A
  - NV-1715-0836
- Communications Transmitter Site Systems Maintenance, Class C1
  - NV-1715-0836
- Cryptologic Technician Yeoman, Class A
  - NV-1715-0836
- Cryptologic Technician Communication Rating, Class A
  - NV-1715-0836
- Cryptologic Technician O High Frequency Direction Finding (DF), Communications Technical Control, Class C1
  - NV-1715-0836
- Cryptologic Technician O, Tactical Cryptology Systems Operations and Management, Class C3
  - NV-1715-0836
- E-2A AN/ASQ-52 Data Communication System Special Support Equipment Intermediate Maintenance
  - NV-1715-0836
- E-2A Digital Data Communications System (AN/ASW-14A) Intermediate Maintenance
  - NV-1715-0836
- E-2A Multi-Purpose Communications System (AN/ASW-52) Intermediate Maintenance
  - NV-1715-0836
- EA-6B Communications, Navigation and Radar System Organizational Maintenance
  - NV-1715-0836
- Electronics Technician A, Communications
  - NV-1715-0836
- Electronics Technician, Class A—A 3 (Communications)
  - NV-1715-0836
Electronics Technician, Class A (Communications) NV-1715-0730
Electronics Technician, Class A (Communications, Radar and Sonar Specialties) NV-1715-0727
Electronics Technician, Class A, Phase SEIN (Shipboard Equipment Indocination, Communications) NV-1715-0639
Electronics Technician, Class C (Shipboard Equipment Indocination (Communications) NV-1715-0639
Electronics Technician Communications Basic, Class A1 NV-1715-0851
Electronics Technician Communications, Class A NV-1715-0856
Electronics Technician Communications Fundamentals, Class A1 NV-1715-0852
Electronics Technician Communication—Nuclear Field, Class A1 NV-1715-0853
F-14A Communications, Navigation/Displays, Electronic Warfare Organizational Maintenance Technician NV-1704-0217
First Tour Pilot P-3C Communications Operator NV-1704-0213
Fleet Satellite Communications Fleet Broadcast Control Subsystem Maintenance (Electronics Technician, Class C1) NV-1715-0874
High Frequency Direction Finding (HFDF) Communications Technical Control NV-1715-0800
Interior Communications Electrician, Class B NV-1715-0755
Interior Communications Electrician, Class C NV-1715-0755
Interior Communications (IC), Class A, Part II (Interior Communications Equipment) NV-1715-0173
Interior Communications (IC) Package Course for SSN/SSBN NV-1715-0886
Marine Air Traffic Control Communications Repairman, Class C NV-1715-0799
Mobile Data Communications Terminal Technician NV-1715-0091
Naval Amphibious Communications NV-1404-0006
Naval Flight Officer P3C Communications Operator NV-1704-0219
Naval Modular Automated Communications System (NAVMACS) A0 Maintenance NV-1715-0875
P-3/A/B Communications Navigation (COMM/NAV) Organizational Maintenance NV-1715-0096
P-3 AN/ARC-52 UHF Communications Systems Maintenance, No. 21 NV-1715-0046
P-3 AN/ARC-94 Communications System Maintenance, No. 19 NV-1715-0374
Radio Communications System Maintenance for DD663 Class Ships, Class C-1 NV-1715-0870
Reserve Cryptologic Technician Communications Technical Control, Class F1 NV-1715-0848
Reserve Naval Security Group-7 Communications Technical Control NV-1715-0848
Special Communications Equipment AN/WRA-3 Maintenance NV-1715-0251
Special Communications Equipment AN/WRT-4 Maintenance NV-1715-0250
Submarine Communications Equipment NV-1715-0885
Submarine Communications Equipment Combined Maintenance NV-1715-0885
Submarine Emergency Communications Transmitter (SECT) Buoy AN/BST-1 Maintenance NV-1715-0900
Submarine Interior Communications, Systems NV-1715-0642
Tactical Data Communications Central Repairman MC-1715-0077
Tactical Data Communications Central (TDCC AN/TYQ-3) Technician MC-1715-0026
Tactical Satellite Communications Equipment Maintenance AN/WSC-5(V) NV-1715-0877
Communicator Airborne Navigator NV-1409-0004
Compilation Map Compilation DD-1713-0001
Photogrammetric Compilation DD-1601-0009

Component
Electrical Component Maintenance (UNREP) NV-1715-0025
Microminiature Component Repair Intermediate Maintenance NV-1715-0157
Miniature Component Repair NV-1715-0156
UNREP Electrical Component Maintenance United Controls NV-1715-0025
Compressed Gases, Class C NV-1601-0010
Compressed Gases, Class C, High Pressure Oxygen-Nitrogen Plant NV-1601-0010
Compressed Gases Cryocooler Maintenance, Class C NV-1601-0001
Computor
Data Communication and Transmission Loops Fire Control System (FCS) Mk 80, Class C1 NV-1715-0895

KEYWORD INDEX

Computer
A-3 Bombing Data Computer CP-66A/ASB-1 Maintenance NV-1715-0263
A-6 AN/ASQ-61A Ballistics Computer Intermediate Maintenance NV-1715-0668
A-6 AN/ASQ-61A Ballistics Computer Theory NV-1715-0667
A-6 AN/ASQ-61 Ballistics Computer Intermediate Maintenance NV-1715-0668
A-6 Ballistics Computer Test Console - Intermediate Maintenance NV-1715-0342
A-7E AN/ASN-91 Tactical Computer Intermediate Maintenance NV-1715-0700
AN/AQA-7 (V) Sonar Computer Recorder Group Intermediate Maintenance NV-1715-0774
AN/ASA-13A Navigational Computer Group Intermediate Maintenance NV-1715-0326
AN/ASA-47 Doppler/Airmass Navigational Computer System Intermediate Maintenance NV-1715-0582
AN/AYN-1 Navigation Computer Systems Class C NV-1715-0024
AN/BRN-3 Computer Advanced Training NV-1715-0925
Automatic Flight Control System (AN/ASW-15) And Air Data Computer (560727-1) Organizational Maintenance NV-1715-0741
Basic Digital Computer Theory NV-1715-0904
Central Navigation Computer (Input/Output) NV-1402-0026
Central Navigation Computer (Processor I) NV-1402-0025
Central Navigation Computer (Processor II) NV-1402-0024
Computer Basics Class C Electronics NV-1402-0011
NV-1402-0012
NV-1402-0013
Computer Detector (CP-413/ASA-27) Intermediate Maintenance NV-1715-0111
Computer MK 1A Maintenance NV-1715-0086
Computer Orientation for Intermediate Executives DD-1402-0003
Computer Programming Orientation NV-1402-0014
CP-9671UYK Computer Maintenance (Electronics Technician, Class C1) NV-1402-0016
Data System Technician, Class A (Phase A-2)—Part II, CP-642A/642B/USP-20(V) Digital Data Computer Maintenance NV-1715-0044
Digital, Analog, and Hybrid Computer Fundamentals NV-1402-0013
Digital and Analog Computer Fundamentals NV-1402-0012
E-2A Automatic Flight Control System
(AN/ASW-15) and Air Data Computer
(A/A24G-13)
NV-1715-0460

E-2A Automatic Flight Control System
and Air Data Computer Semi-Automatic
Check-Out Equipment Operation and
Maintenance
NV-1715-0478

E-2A Computer Detector (CP-413/ASA-
27) and Computer Detector Test
Console (OA-3731/ASM-76)
Intermediate Maintenance
NV-1715-0340

E-2A Computer Detector Semi-
Automatic Check-Out Equipment
(SACE) (OA-3731/ASM-76) Operation
and Maintenance
NV-1715-0349

E-2A Computer Indicator (AN/ASA-27)
Intermediate Maintenance
NV-1715-0466

E-2A Computer Indicator (CI) Semi-
Automatic Check-Out Equipment
(SACE) Operation and Maintenance
NV-1715-0315

EKA-3B AN/ASN-66B Navigational
Computer Set Intermediate Maintenance
NV-1715-0505

F-4B AN/AJB-3A Loft Bomb Release
Computer Set
NV-1715-0050

F-4B/J Air Data Computer Set
Intermediate Maintenance
NV-1715-0552

Fire Control System (FCS) Mk 88
Digit 1 Digital Control Computer
NV-1715-0353

F/RF-4B Air Data Computer Set
Maintenance
NV-1715-0209

IBM System 360 Computer System
Programming (COBOL Language), Class C
NV-1402-0007

Introduction to Computer Technology
DD-1402-0002

Mardan/Verdan Computer Theory
NV-1715-0657

Mk 152 Computer and Peripheral
Equipment (Common Core)
Mk 152 Computer Common Core
NV-1715-0586

Mk 68 Director and Computer Mk 47
Mks 8 and 11 Difference Maintenance
NV-1715-0271

Naval Data Automated Computer
(NVDA/ACE) Advanced Training
NV-1715-0926

OA-3731/ASM-76 Computer Detector
Test Console Intermediate Maintenance
NV-1715-0798

OA-3734/ASM-77 Ballistic Computer
Test Console Intermediate Maintenance
NV-1715-0548

P-3 AN/ASQ-42 Navigational Computer
Set Intermediate Level Maintenance, No. 16
NV-1715-0327

P-3 AN/ASQ-42 Navigational Computer
Set Intermediate Maintenance
NV-1715-0327

P-9 AN/ASQ-42 Navigational Computer
Set Operational Level Maintenance, No. 15
NV-1715-0324

P-3C CP-901/ASQ-114 Computer
Organizational Maintenance
NV-1402-0040

P-3 Synchrophaser/True Airspeed
Computer/Signal Lights Control
Intermediate Maintenance
NV-1715-0322

Polaris Target Card Computer System
Mk 148 Mod 0 Maintenance, Class F 1
NV-1715-0893

Polaris Target Card Computer System
Mk 148 Mod 0 Theory, Class CI
NV-1715-0894

Polaris Target Card Computer System
Peripheral Equipment, Class CI
NV-1715-0977

Programming, Digital Computer CP-
642A & B/USQ-20 (Machine Language
and CS 1 Assembly Language)
NV-1402-0039

Radio Navigation Set AN/BRN-3/3A
Computer Advanced Training
NV-1715-0925

RF-4B AN/ASN-46/56 Navigational
Computer and Inertial Navigation System
Intermediate Maintenance
NV-1715-0228

RF-4B AN/ASN-46/74 Navigation
Computer and Inertial Navigation System
Intermediate Maintenance
NV-1715-0465

S-2D/E AN/ASN-30 Navigational
Computer Display Unit and AN/ASQ-80-
Coordinate Data Set System
Maintenance
NV-1715-0331

SH-3A AN/ASA-13A Navigational
Computer Maintenance
NV-1715-0333

SSBN Navigation Data Assimilation
Computer Mk 2 Mod 4, Stabilization
Data Computer Mk 2 Mod 1
NV-1715-0242

Talos Computer Mk 111 Mod 1
NV-1715-0427

Talos Computer Mk 111 Mod 1, Class C
NV-1715-0149

Tartar Computer Mk 118
NV-1715-0343

Tartar Computer Mk 118 Mod 0
NV-1715-0343

Tartar Mk 152 Computer Complex
NV-1715-0792

Terrier Computer Mark 119 Mod 5
NV-1715-0334

Terrier Computer Mark 119 Mod 5
(Fleet Inputs)
NV-1715-0334

Terrier Computer Mk 100 Mod 2
NV-1715-0398

Terrier Computer Mk 119 Mods 3 and 4
NV-1715-0334

Terrier Mark 152 Computer Complex
NV-1715-0391

TH-2A/B AN/ASA-13A Navigational
Computer Group Intermediate
Maintenance
NV-1715-0356

Verdan Computer Theory and
Maintenance I
NV-1715-0923

Verdan Computer Theory and
Maintenance II
NV-1715-0924

Computing
Geodetic Computing
DD-1601-0006

CONALOG
CONALOG Maintenance Norden
(Enlisted)
NV-1715-0252

CONALOG (Norden) Refresher
Maintenance and Troubleshooting
NV-1715-0293

CONALOG II
CONALOG II Maintenance (SPERRY)
NV-1715-0636

Concrete
BU"C" Concrete
NV-1710-0040

Conditioning
Air Conditioning Refrigerant 11
NV-1730-0006

Refrigerant 11 Air Conditioning
NV-1730-0006

Console
DD963 Centralized Damage Control
Console Operator, Class CI
NV-1601-0015

DD963 Centralized Damage Control
System Console Maintenance, Class CI
NV-1601-0016

Navigation Operational Checkout
Console (NOCC) Mk 1 Mod 1
Advanced Maintenance
NV-1715-0128

Construction
Basic Construction Man
MC-1710-0018

BU"C" Heavy Construction
NV-1710-0034

Builder/Heavy Construction Technician,
Class C
NV-1710-0034

Civil Engineer Corps Officer
Basic—Naval Construction Battalion
Operations Specialty
NV-1408-0015

Construction Drafting
DD-1713-0003

DD-1713-0004

Construction Electrician Cable Splicer
(Class C)
NV-1714-0015

Construction Electrician, Class A
(CE"A"
NV-1714-0008

Construction Electrician, Class B
NV-1714-0010

Construction Electrician, Class J
(CE"J"
NV-1714-0010

Construction Electrician, Power and
Communications Cable Splicing
NV-1714-0015

Construction Foreman
MC-1710-0003

Construction Mechanic/Automatic
Transmissions, Class C
NV-1703-0003

Construction Mechanic/Automatic
Electrical Maintenance, Class C
NV-1703-0001

Construction Mechanic, Class A1
(CM"A"
NV-1710-0035

Construction Mechanic, Class B
(CM"B"
NV-1710-0065

Construction Mechanic, Class J
(CM"J"
NV-1710-0065

Construction Surveying
DD-1601-0008

Planning and Estimating
Construction Group Ratings, Class C
NV-1408-0012

Continuous
Continuous Wave Illuminator (CWI)
Common Core
NV-1715-0163

Terrier Radar Set AN/ASN-66B
Continuous Wave Acquisition and
Tracking (CWAT)
NV-1715-0693

Contract
Civil Engineer Corps Officer
Basic—Contract Administration Specialty
NV-1408-0013
Controls

- A-7B C-8185 Armament Station Control Unit Intermediate Maintenance
- Air Control, Class O
- Air Control Electronics Operator
- Air Defense Control Officer
- Air Support Control Officer
- Command and Control
- F-4B Sylverballer (E-2A) A-5386 Armament Station Control
- F-4C Combat System (Enlisted) Familiarization
- F-4J AN/AWG-10 Missile Control Display and Built-In Test (BIT)
- Intermediate Maintenance
- F-4J AN/AWG-10 Missile Control System
- Fire Control Technician Class C, Gun
- Fire Control System (GFCS) Mk 56
- H-53 Automatic Flight Control System
- Organizational Maintenance
- Submarine Satellite Information Exchange System (SSIXS) Operational Control Center Maintenance
- Underwater Fire Control Group Mk 184 Maintenance

Controller

Air Intercept Controller
- Air Intercept Controller Supervisor
- Basic Naval Tactical Data System (NTDS) Air Intercept Controller
- Carrier Air Traffic Control Center
- Controller Class C 0
- Ground Controlled Approach Controller
- Naval Aviation Observer (Controller), Class O

Controllers

Circuit Breakers and Controllers
- Controllers and Circuit Breakers
- Combined Maintenance
- Controllers Circuit Breakers, Class F-1

Controlman

- Air Controlman, Class A
- Air Controlman, Class B
- Air Controlman (Radar), Class A
- Air Controlman T (Tower), Class A
- Air Controlman W (Early Warning), Class A
- Damage Controlman

Controlmen

- Damage Controlmen Class A HT-A Phase 1

Conventional

- A-4 Conventional Weapons Training
- A-6A Conventional Weapons

Conversion

- 3306/3309 FTB Conversion Training

Convectors

- 60/400 Hz Power Converter
- RA-5C Signal Data Converter Group
- Test Equipment Intermediate Maintenance

Cook

- Advanced Cook
- Basic Specialist Training Cook
- Cook, Basic Specialist Training

Copilot

- S-3A Copilot Avionics
- S-3A Copilot Training

Corpsman

- Advanced Hospital Corpsman
- Basic Hospital Corpsman, Class A
- Hospital Corpsman, Advanced
- Hospital Corpsman (HM)

Correlation

- RF-4B Photographic Film Correlator-
- Processor Set ES-5A Intermediate Maintenance

Correspondence

- National Security Management

Counseling

- Instructor, Class C-1 Administration and Counseling
- Instructor, Class C (Career Information and Counseling)
- Personnelman, Class C (Career Information and Counseling)

Counselor

- Navy Drug Abuse Counselor

Counter-Countermeasures

- Operations Officer Electronic Counter-
- Countermearns (ECCM)

Key Word Index

-徒-8185 Countermeasure Set
- Intermediate Maintenance

- AN/AW-10 and Electronic Counter
- Countermeasures Circuitry
- Intermediate Maintenance

- RA-5C AN/ALO-61 Countermeasure Set
- Shop Maintenance

Countermeasures

- Airborne Early Warning/Electronics
- Countermeasures Evaluator, Class O
- AN/AW-5A Countermeasures Internal Setup
- AN/AW-5A Countermeasures Set
- AN/AW-8/100 Countermeasures Set
- AN/AW-92 Countermeasures Set
- Intermediate Maintenance

- AN/ALO-99 Jamming Transmitters and
- AN/ALO-107 Countermeasures Test
- Station Intermediate Maintenance

- AN/ALO-54 Countermeasures Receiving
- Set Intermediate Maintenance

- AN/SLQ-19 and AN/SLQ-26(V) with
- AN/SLQ-1 Countermeasures Set
- Maintenance

- AN/SP-37/37A Radar Sets, AN/SP-63
- Countermeasures Receiving Group, AN/SP-45/R-43A Radar Set Differences

- AN/SP-62 Countermeasures Receiving
- Group, Class C

- Countermeasures Receiving Set
- AN/WLR-11A

- Countermeasures Receiving Set
- AN/WLR-1C (V) Class F-1

- Countermeasures Set
- AN/S/O-26, Class C-1

- EKA-38 AN/AW-92 Countermeasures
- Set Intermediate Maintenance

- Electronic Technician Class C, A-5
- Electronic Countermeasures Systems
- Intermediate Maintenance
K-30 KEYWORD INDEX

NTDS Data Utilization
P-3 AN/AQA-5 Sonar Data Recording System Maintenance, No. 46
P-3C Digital Data Handling Organizational Maintenance
Polaris/Posidon Navigation Data Aritimilation
Data Processing Technician, Class A Seminar
Data Processing Installation Management
Automatic Data Processing (ADP) Test Set Intermediate-Maintenance
Terrier Telemetering Data Reduction
Tactical Data Systems Maintenance
Officer/Program Officer
Repairing Data Handling
Tactical Air Operations Central (TAOC)
RF-4B AN/ASQ-90 Airborne Data Annotation System Maintenance
Shipboard Tactical Data Systems Maintenance
SSBN Navigation Data Acquisition Computer Mk 2 Mod 4, Stabilization
Data Computer Mk 2 Mod 1
T-1073/A Course Attitude Data Transmitter Intermediate Maintenance (EA-6B)
Naval Tactical Data Systems Digital Repair
Tactical Data Systems Technician, Class A, Phase A
Data Systems Technician, Class A, Phase A-1
Data Systems Technician, Class A (Phase A-2)—Part II, CP-642A/642B/IL5-20(V) Digital Data Computer Maintenance
Data Systems Technician, Class C, Data Display Group Maintenance
Data Systems Technician, Class C, Data Transmission Group, Data Terminal
Data Systems Technician, Class C, MK 11, Mod 2/4 Systems Group Maintenance
Data Systems Technician, Class C, Periphermal Group RD-281(V)/UYK Recorder Reproducer Magnetic Disk File Equipment Maintenance
Data Systems Technician, Class C, Weapon Direction System Mk XI Mod 0/1 Maintenance Training
Data Systems Technician—Data Conversion Group Equipment Maintenance, Class C
Data Systems Technician—Peripheral Equipment Maintenance, Class C
Data Systems Technician—RD-294/UYK Magnetic Tape Unit Maintenance, Class C
Data Systems Technician School, Class A (Phase A-2)—Part I, CP-789
Data Systems Technician, Class A (Phase A-2)—Part III, CP-642A
E-2B Airborne Tactical Data Systems
E-2B Airborne Tactical Data Systems Operator (Naval Flight Officer)
Maritime Tactical Data Systems Fundamentals
Naval Tactical Data Systems Data Transmission Group Maintenance
Naval Tactical Data System Maintenance

Tactical Data Systems Analyst
Tactical Data Systems Digital Repair
DATC
DATC Machinist’s Mate Maintenance
DD983
DD963 Basic Circuit Concepts for Gas Turbine Controls, Class C1
DD963 Centralized Damage Control Console Operator, Class C1
DD963 Centralized Damage-Control System Console Maintenance, Class C1
DD-963 Facilities Control Quality Monitoring and Message Processing (FCQM) Operators, Class F-1
DD-963 Facilities Control Quality Monitoring Processing Unit Operators
Radio Communications System Maintenance for DD963, Class Ships, Class C-1
SSM Decoating System for DD963 Class Destroyer, Class C1

Deception
Electronic Warfare Technician, Class A (A-3), Decoating System Maintenance

Decision
Defense Economics and Decision Making Off-Campus Graduate Seminar
Naval War College Correspondence Course in Defense Economics and Decision Making

Deck
Prospective Officer of the Deck

DECM
A3B, RA3B, E2AB AN/ALQ-35 DECM System Maintenance
RA-SC AN/ALQ-35 DECM Sensor
RA-SC DECM and DECM Organization Maintenance

Decoders

Deep Sea
Deep Sea Divers
Deep Sea Helium-Oxygen Diving Officers
Medical Deep Sea Diving Technic
Medical Deep Sea Diving Technician
Documentary

Still Documentary Photography Cl

NV-1709-0010

Doppler

A-7 AN/APN-190 Doppler Radar Navigation System Intermediate Maintenance

NV-1715-0200

AN/APM 341 (V) Doppler Test Set Intermediate Maintenance

NV-1715-0360

AN/APM-122 Doppler Navigation System Maintenance

NV-1715-0483

AN/APM-153(V) Doppler Radar Navigation System Intermediate Maintenance

NV-1715-0507

AN/ASA-175 Doppler Radar Navigation System Intermediate Maintenance

NV-1715-0582

S-2D/E AN/APM-122 Doppler Radar Navigation System Intermediate Maintenance

NV-1715-0422

SH-3A AN/APM-139 Doppler Radar Navigation System Intermediate Maintenance

NV-1715-0237

DOS

IBM System 360 Disk Operating System (DOS) Operations

MC-1402-0018

IBM System 360 (DOS) COBOL Programming

MC-1402-0011

Douglas

Douglas Model D-704 and Sargent-Fletcher Model 31-300 Air Refueling Store Systems Organizational Maintenance

NV-1704-0046

Drafting

Cartographic Drafting

DD-1713-0002

Construction-Drafting

DD-1713-0003

DD-1713-0004

Draftsman

Illustrator Drafterian, Class A

NV-1713-0002

DRAI

Mk 9 Mod 4 Dead Reckoning Analyzer Indicator (DRAI) and Mk 6 Mod 4B Dead Reckoning Tracer (DRT), Class C

NV-1715-0344

Drill

Drill Instructor

MC-2204-0001
EA-6B

EA-6A

EA-3B

E-2B

E-2A

E-2

EA-6B Hydraulics and Flight Control Organizational Maintenance

Early Warning

Early Warning

E-2A AN/ALQ-76/86 ECM Systems

ECM

A-6A AN/ALQ-76/86 ECM Systems

E-2B Airborne Tactical Data Systems

E-4M Electrical Systems Organizational Maintenance


E-2B Airborne Tactical Data Systems (ATDS) Operator Training

E-2B Airborne Tactical Data Systems Operator (Naval Flight Officer)

E-2B Aircraft Pilot Training

E-2B and C-2A Environmental Systems Organizational Maintenance

E-2B ATDS Operator (Naval Flight Officer)

E-2B/C-2A Aviation Electrician Organizational Maintenance

E-2B Detection System Organizational Maintenance

E-2B Electronic Systems Organizational Maintenance

E-2B Naval Flight Officer

E-2B OA-8206/ASA-27A Difference Organizational Maintenance

E-2B Weapon System Specialist Organizational Maintenance

E-2B Weapon System Trainer (WST)

E4B

EA-3B

A3B, RA3B, EA3B AN/ALQ-35 DECM System Maintenance

EA-6A

EA-6A AN/ALQ-76/86 ECM Systems Organizational Maintenance

EA-6B

EA-6B Communications, Navigation and Radar System Organizational Maintenance

EA-6B Course Attitude Data Transmitter Intermediate Maintenance

Editor

Newspaper Editor

DD-0504-0003

E-2B Airborne Tactical Data Systems

E-2A Power Plant and Related Systems Organizational Maintenance

E-2A Radio Set AN/ARC-80 Intermediate Maintenance

E-2A Electronic Computing and Communications (SACE) (0A-373/ASA-48) Intermediate Maintenance

E-2A Weapon System Specialist NV-1715-0459

E-2A Weapon System Special, No. 5 NV-1715-0459

E-2B

E-2B Airborne Tactical Data Systems NV-1704-0226

E-2B Airborne Tactical Data Systems (ATDS) Operator Training NV-1715-0777

E-2B Airborne Tactical Data Systems Operator (Naval Flight Officer) NV-1704-0225

E-2B Aircraft Pilot Training NV-1606-0054

E-2B and C-2A Environmental Systems Organizational Maintenance NV-1701-0003

E-2B ATDS Operator (Naval Flight Officer) NV-1704-0225

E-2B/C-2A Aviation Electrician, Organizational Maintenance NV-1704-0224

E-2B Electronic Systems Organizational Maintenance NV-1715-0769

E-2B Electronic Systems Organizational Maintenance NV-1715-0776

E-2B Naval Flight Officer NV-1704-0226

E-2B OA-8206/ASA-27A Difference Organizational Maintenance NV-1715-0508

E-2B Weapon System Specialist Organizational Maintenance NV-1715-0757

E-2B Weapon System Trainer (WST) NV-1704-0232

EA-6A

EA-6A AN/ALQ-76/86 ECM Systems Organizational Maintenance

EA-6B

EA-6B Communications, Navigation and Radar System Organizational Maintenance

EA-6B Course Attitude Data Transmitter Intermediate Maintenance

EA-6B Hydraulics and Flight Control Organizational Maintenance

EA-6B J-52-P-408 Power Plants and Related Systems Organizational Maintenance

T-1073/A Course Attitude Data Transmitter Intermediate Maintenance (EA-6B)

EA-A Engineering Aid, Class A (EA-A) NV-1601-0003

EA-C Planning and Estimating

EA-J

EAM

Electrical Accounting Machines (EAM) MC-1402-0019

Ear

Eye, Ear, Nose and Throat Technician, Class C NV-0709-0009

Early Air Controlman W (Early Warning), Class A NV-1704-0009

Early Warning

Airborne Early Warning, Class O NV-2202-0036

Airborne Early Warning/Electronics Countermeasures Evaluator, Class O NV-1715-0599

East

Defense Language Institute Courses—East Coast Branch DD-0602-0009

EC-130Q

EC-130Q Electrical Systems and Circuits Organizational Maintenance NV-1714-0901

ECCM

Operations Officer Electronic Counter-Countermeasures (ECCM) MC-1715-0067

Echelon

ONTOS (M50)(Fourth and Fifth Echelon) Maintenance

Echo

AN/UQN-4 Echo Sounder Maintenance NV-1715-0425

ECM

EA-6A AN/ALQ-76/86 ECM Systems Organizational Maintenance NV-1715-0198

Economies

Defense Economics and Decision Making Off-Campus Graduate Seminar NV-1511-0006

Naval War College Correspondence Course in Defense Economics and Decision Making NV-1511-0005

Editor

Newspaper Editor DD-0504-0003

Education

Drug Abuse Education Specialist NV-0799-0004

Troop Information and Education Enlisted DD-0504-0005

Troop Information and Education Officer DD-0504-0006

E4 E & H

E, E & H, Class P NV-1715-0565

Egress

F-4B/J Egress and Environmental Control Systems Maintenance NV-1704-0106

F-4B/J Egress and Environmental Control Systems Organizational Maintenance NV-1704-0106

EKA-3B

EKA-3B AN/ALQ-92 Countermeasures Set Intermediate Maintenance NV-1715-0361


Electric

Automatic Electric—Strowger Switching Telephone Systems Maintenance, Class C1 NV-1715-0735

Aviation Support Equipment Mobile Electric Power Plant Intermediate Maintenance NV-1715-0541

Aviation Support Equipment NC-10B Mobile Electric Power Plant Systems Intermediate Maintenance NV-1715-0698

Aviation Support Equipment NC-2A Mobile Electric Power Plant Intermediate Maintenance

Electric Hydraulic Power Drive for 5"/58 Caliber Dual Purpose Single Mount NV-2202-0075

Electric Motor Rewind, Class C NV-1714-0016

Electrical

6L16 Oxygen Generator Electrical Technician NV-1715-0918


A-4M Electrical Systems Organizational Maintenance NV-1704-0102

A-6A Electrical Systems Intermediate Maintenance NV-1704-0108

A-6A Electrical Systems Maintenance NV-1704-0088

A-6A Electrical Systems Organizational Maintenance NV-1704-0100

A-6KA-6D Electrical Power Systems Intermediate Maintenance NV-1704-0097

A-7E Electrical and Instrument Systems Organizational Maintenance NV-1704-0080

A-7 Electrical and Instrument Systems Organizational Maintenance NV-1704-0079

AH-1J Electrical Organizational Maintenance NV-1704-0105

Aviation Support Equipment Technician, Class A (Electrical Specialty)
K-36  KEYWORD INDEX

Submarine Radioman Electricity and Electronics  NV-1715-0316

Electrocardiography
Electrocardiography and Basal Metabolism Technic  NV-0709-0010
Electrocardiography and Basal Metabolism Technician, Class C  NV-0709-0010
Electrocardiography Technician, Class C  NV-0709-0010
Electrocardiography  NV-0709-0010

Electroencephalography
Electroencephalography Technician  NV-0709-0011
Electroencephalography Technician, Class C  NV-0709-0011

Electrolytic
Electrolytic Oxygen Generator 7L16  NV-1601-0002
Electrolytic Oxygen Generator Operators  NV-1601-0008

Electronic
585/594 FBM Electronic Surveillance Measures (ESM) Technician  NV-1715-0882
A-6 Electronic Module Test Console Intermediate Maintenance  NV-1115-0451
Air Control Electronic Operator  NV-2204-0031
AN/APN-120 Electronic Altimeter Intermediate Maintenance  NV-1715-0144
AN/SQS-26 AXR Electronic Maintenance  NV-1715-0300
C-121 Electronic Systems  NV-1704-0179
E-1B Electronic Systems Organizational Maintenance  NV-1715-0498
E-2B Electronic Systems Organizational Maintenance  NV-1715-0776
Electronics Fundamentals  MC-1715-0004
Electronics Technician, Class A—A-2 (Electronic Circuit Applications)  NV-1715-0723
Electronics Surveillance Measures (ESM) Technician SSN 637 Class C-1  NV-1715-0883
Electronics Surveillance Measures (ESM) Technician SSN 688 Class C  NV-1715-0889
Electronic Teletype Repair  MC-1715-0064
Electronic Test Equipment Basic Operator, Class F1  NV-1715-0986
Electronic Test Equipment Operation NV-1715-0986
Electronic Warfare Electronic Support Measures System Maintenance, Class A  NV-1715-0005
Electronic Warfare, Technician, Class A (A-2), Electronic Support Measures System Maintenance  NV-1715-0780
F-4J AN/AWG-10 and Electronic Countermeasures Circuitry Intermediate Maintenance  NV-1715-0780
IQC Electronic Data Processing Maintenance  NV-1715-0581
Miniature Electronic Repair Program, Class F-1  NV-1715-0815
Miniature/Micro miniature Electronic Repair (2M)  NV-1715-0815
Operations Officer Electronic Counter-Countermeasures (ECCM)  NV-1715-0067
QH-50D Weapons System Electronic Intermediate Maintenance  NV-1715-0633
RA-SC AN/APN-120 Electronic Altimeter Intermediate Maintenance  NV-1715-0479
RA-SC Electronic Reconnaissance Line Intermediate Maintenance  NV-1715-0246
Solid State Theory for Electronic Equipment  NV-1715-0103
Technician Electronic Counter-Countermeasures  MC-1715-0001

Electronics
Air Control/Antiaircraft Warfare Electronics Operator  MC-1704-0002
Air Control/Antiaircraft Warfare Electronics Operator  MC-1704-0002
Air Control Electronics Operator  MC-2204-0053
Air Control Electronics Operator, Automated System  MC-1704-0001
Air Traffic Control Electronics Maintenance Officers, Class O  NV-1715-0670
AN/ASQ-17B Integrated Electronics Central Intermediate Maintenance  NV-1715-0515
AN/ASQ-56A Integrated Electronics Central and Related Systems Intermediate Maintenance  NV-1715-0515
Aviation Electronics Fundamentals, Class A  NV-1715-0380
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- NV-1601-0010

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- NV-1715-0221

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- NV-1715-0218

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- NV-1715-0219

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- NV-2202-0028

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- NV-1715-0210

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- NV-1715-0210

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Launcher Technician MK 88 Fire Control Conversion  
NV-1715-0623
Mk 88 Mod 1 Fire Control Technician Conversion (Mk 80 & 84 to Mk 88)  
NV-1715-0585

Mk 9
Mk 9 and Mk 10 5'/38 Caliber Twin Gun Mount Power Drive Maintenance  
NV-1715-0654
Mk 9 Mod 4 Dead Reckoning Analyzer Indicator (DRAI) and Mk 6 Mod 4B Dead Reckoning Tracer (DRT), Class C  
NV-1715-0344
Turret Weapon Direction System Mk 3 (D/Mark 9)  
NV-1715-0649

Mk NC-2
MK-NC-2 Plotter Mod 0 Maintenance, Class C  
NV-1715-0082
MK-NC-2 Plotter Mod 2/2A Maintenance, Class C  
NV-1715-0076
MK-NC-2 Plotter Mod 1A (Spery) Maintenance, Class C  
NV-1715-0075

Mk V
Mk V Atmosphere Analyzers  
NV-1715-0551

Mk XI
Data Systems Technician, Class C, Weapon Direction System Mk XI Mod 0/1 Maintenance Training  
NV-1715-0385

Mk XII
AIMS Mk XII IFF System Maintenance (Electronics Technician, Class C1)  
NV-1715-0812
AIMS Mk XII System Differences Equipment Maintenance, Class C-1  
NV-1715-0813
MK XII IFF Systems, Class C  
NV-1715-0033

Mobile
Aviation Support Equipment Mobile Electric Power Plant Intermediate Maintenance  
NV-1715-0541
Aviation Support Equipment NC-10B Mobile Electric Power Plant Systems Intermediate Maintenance  
NV-1715-0698
Aviation Support Equipment NC-2A, Mobile Electric Power Plant Intermediate Maintenance  
NV-1715-0700
Mobile Communication Central Technician  
MC-1715-0006
Mobile Data Communications Terminal Technician  
MC-1715-0081
Mobile Dial Central Technician  
MC-1715-0085
Mobile Riverine Force Staff Officer Training  
NV-2202-0048

Model 28
Model 28 ASR Teletype Maintenance  
NV-1715-0662

Modular
Naval Modular Automated Communications System (NAVMACS) A0 Maintenance  
NV-1715-0875

Module
A-6A Track Radar and Module Analyzer Test Console Intermediate Maintenance  
NV-1715-0429
A-6 Track Radar Module Analyzer Test Console and Detailed Module Theory (Intermediate Level Maintenance)  
NV-1715-0429
LM2500 Gas Turbine Module Maintenance, Class C1  
NV-1703-0008

Molders
Molders, Class B  
NV-1723-0003
NV-1723-0012

Monitor
E-2A AN/ASM-33A In-Flight Performance Monitor Maintenance  
NV-1715-0471

Morse
Intermediate Morse Code Operator, Class C  
NV-1404-0002
International Morse Code Operator  
NV-1404-0002

Mortarman
Mortarman  
MC-2204-0047

Motion
Fire Control System (FCS) Mk 113 Mod 9 Target Motion Analysis (TMA) Operator/Familiarization  
NV-2202-0099
Motion Picture Cameraman  
NV-1709-0009
Motion Picture Projection System Maintenance, Class C  
NV-1715-0660
Motion Picture School, Class C  
NV-1709-0009

Motor
Advanced Motor Transport  
MC-1703-0002
Electric Motor Rewind, Class C  
NV-1714-0016

Motor Transport Chief  
MC-1703-0003
Motor Transport Maintenance Management  
MC-0419-0002
Motor Transport Officer  
MC-0419-0003
Motor Transport Officer Leadership  
MC-0419-0004
Motor Transport Officer Orientation  
MC-0419-0004
Motor Transport Staff NCO Leadership  
MC-1703-0016
Motor Vehicle Operator  
MC-2101-0001
Motor Vehicle Operators  
MC-2101-0001
Outboard Motors, Motor Maintenance and Overhaul, Class C  
CG-1731-0001

Mount
3'/50 Caliber Rapid Fire Twin Mount Gun Maintenance (Mk 35)  
NV-1715-0655

Mountain
Mountain Leadership Training, Summer  
MC-2204-0007
Mountain Leadership Training, Winter  
MC-2204-0006
Mountain Operations (Military Skiing)  
MC-0803-0004
Mountain Operations (Rock Climbing)  
MC-0803-0005

MTCI
MTCI Polaris Missile Technician Maintenance, Class C  
NV-1715-0574

MTDS
Marine Tactical Data System (MTDS) Technician  
MC-1715-0043
Marine/Tactical Data System (MTDS) Weapons Controller  
MC-2204-0034
Marine Tactical Data System (MTDS) Weapons Controller/Operator  
MC-1715-0021
MTDS Fundamentals  
MC-1715-0017

MTRE
Missile Test and Readiness Equipment (MTRE) Mk 3 Measurement, Display and Simulation Groups Advanced Training  
NV-1715-0908
Missile Test and Readiness Equipment (MTRE) Mk 3 Programmer/Timer Digital Multimeter Advanced Training, Class C1  
NV-1715-0884
MTRE Mk 3 Mods 4 and 5 Measurement, Display and Simulation Groups Advanced Training, Class F1  
NV-1715-0908

Multichannel
Electronics Technician, Class C, AN/FGC-60; AN/FTA-15 Multichannel Voice Frequency Telegraph Terminal Equipment  
NV-1715-0194

Multicoupler
Antenna Multicoupler/AN/JRA-16 Combined Maintenance  
NV-1715-0161
Antenna Series (CU-1441/BRM Multicoupler)  
NV-1715-0132
Multilith
Multilith 1250 Repair

Multimeter
Missile Test and Readiness Equipment (MTRE) Mk 3 Programmer/Timer
Digital Multimeter Advanced Training, Class C

Multimetre
Light Airborne Multipurpose System (LAMPS) Operator
Light Airborne Multipurpose System (LAMPS) Sensor Operator

Music
Field Music
Music, Class A, Basic
Music, Class B, Advanced
Music, Class C, Refresher
Music Intermediate, Class C

National
National Boating Safety
National Security Management
(T)Correspondence Course of the Industrial College of the Armed Forces
National War College

Naval
College of Naval Command and Staff
College of Naval Warfare
Naval Gunfire Officer
Naval Preparatory School
Naval War College Correspondence Course in Defense Economics and Decision Making
Naval War College Correspondence Course in Strategy and Policy
Naval Warfare Course
School of Naval Command and Staff
School of Naval Warfare

NAVDA
Naval Data Automated Computer (NAVDA) Advanced Training

SSBN NAVDAC Mk 2 Mod 4, SDC Mk 2 Mod 1

Navigation
A-4E/LTA-4F Communication Navigation Identification (CNI)/Weapons Systems Organizational Maintenance
A-4 Tactical Air Navigation (TACAN) AN/ARN-52(V)
A-6A AN/ASQ-31 Inertial Navigation Organizational Level Maintenance
A-6 AN/ASQ-31 Inertial Navigation System and Test Console Intermediate Maintenance
A-7 AN/APN-190 Doppler Radar Navigation System Intermediate Maintenance
Advanced Navigation Training (Postgraduate Coast Guard Aviator)
Advanced Navigation Training (Student Naval Flight Officer)
Aerial Navigation
Aids to Navigation Mechanician
Aids to Navigation Officer Advanced
Aids to Navigation Officer Basic
Aids to Navigation Officer for Officers
Aids to Navigation School (Short Course for Officers)
Air Navigation
AN/APN-122 Doppler Navigation System Maintenance
AN/APN-130 Radar Navigation Set Intermediate Maintenance
AN/APN-153(V) Doppler Radar Navigation System Intermediate Maintenance
AN/APN-175 Doppler Radar, Navigation System Class C
AN/APN-180 Loran A Navigation System Class C
AN/AR-21D TACAN Navigation Set
AN/AYN-1 Navigation Computer Systems Class C
AN/SPN-40 Radio Navigation Set (Electronics Technician, Class C1)
AN/SPN-18 Radio Satellite Navigation Set Maintenance, Class C
AN/SPN-9A, Radio Navigation Set, Operation and Maintenance

KEYWORD INDEX

AN/ASQ-31 Satellite Radio Navigation System (Electronics Technician, Class C1)
AN/ASQ-31 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation System (Electronics Technician, Class C1)
AVSMR-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Clas
Non-Photographic
Special Photographic Course for Non-Photographic Personnel, Class C

NORP
Marine NORP (Nuclear Weapons Training
Personnel)

Norden
CONALOG Maintenance Norden

CONALOG (Norden) Refresher

Maintenance and Troubleshooting

Norwegian
Norwegian

Nose
Eye, Ear, Nose and Throat Technician, Class C

NORAD
Advanced Naval Parachutist, NP-II Class C

NTDS
Basic Naval Tactical Data System

(NOTDS) Air Intercept Controller

Naval Tactical Data System (NTDS)

Tracker/Supervisor

NTDS Basic Programmer (Operation)

NTDS - Data Collection and Display

(Basic Enlisted)

NTDS Data Utilization

NTDS Evaluator/Supervisor

NTDS Evaluator/Supervisor (USER)

Class O/C

NTDS Intermediate Programmer Course

Programmer, NTDS Operational

(Officer and Enlisted)

Nuclear
Advanced Nuclear Power

Basic Nuclear Power

Clinical Nuclear Medicine Technician

Clinical Nuclear Medicine Technique

CVS/MAUW Shop Nuclear Weapons

Technical

Electronics Technician Communications - Nuclear Field, Class A1

Electronics Technician Radar - Nuclear

Field, Class A1

Marine NORP (Nuclear Weapons Training
Personnel)

Navy Nuclear Weapons Advanced

Maintenance

KEYWORD INDEX

Non-Photographic

NORP

Norden

Norwegian

Nose

NORAD

NTDS

Nuclear

Nurse

OB/GYN Nurse Practitioner

OA-1768A/ASA-13

OA-3731

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76

OA-3731/ASM-76
K-64  KEYWORD INDEX

OA-8206/AŠA-27A
E-2B OA-8206/AŠA-27A Difference
Organizational Maintenance.

OB/GYN
OB/GYN Nurse Clinician
OB/GYN Nurse Practitioner

Obligor
Weapons Direction System (WDS) Mk 7
Mod 3 (6-Year Obligor)

Observation
8th Class Air Observation School

Observer
Aerial Observer
Air Observer
Artillery Scout Observer
Ice Observer, Class C
Naval Aviation Observer (Controller),
Class O
Tactical Aerial Observer

Occupational
Occupational Therapy Technician
Occupational Therapy Technician, Class C
Physical and Occupational Therapy
Technic
Physical and Occupational Therapy
Technician, Class C
Physical and Occupational Therapy
Technician, Phases I and II

Ocean
Air-Ocean Environment Course, Class C
Introduction to Ocean Engineering

Oceanographic
Oceanographic Technician

OCR
Optical Character Recognition (OCR)
Operations
Programming for Optical Character
Recognition (OCR) System

Ocular
Ocular Technician

OE-82B/WSC-1(V)
AN/WSC-3 Satellite Communications Set
and OE-82B/WSC-1(V) Antenna Group

Office
Advanced Office Machine Repair, Class C
Typing and General Office Procedures
(Women)

Officer
Advanced Automotive
Mechanic/Maintenance
Noncommissioned Officer
Officer Candidate
Officer Candidate School
Officer Direct Support Operations, Class C4
Prospective Officer of the Deck
Reserve Officer Candidate (ROC II and
ROC I)
Women Officer Candidate School

Offset
Offset Duplicating Equipment Operator
Offset Printing

Omega
Electronics Technician, AN/SRN-14,
Omega Receiver Maintenance, Class C
Electronics Technician, Class C,
AN/SRN-12 Omega Receiving Set
Maintenance

ONTOS
ONTOS (M50)(Fourth and Fifth
Echelon) Maintenance
ONTOS Vehicle Repairman
Tracked Vehicle Repairman (ONTOS),
Basic

Operating
Disk Operating System Programming
IBM System 360 Disk Operating System
(DOS) Operations
IBM System 360 Operating System (OS)
Operations
Operating Room Technician
Operating Room Technician and
Management
Operating Room Technician, Class C
Operating System Programming
System 360 Operating System—COBOL
Programming Phase
System 360 Operating System—Core
Phase
System 360 Operating System—Operations Phase

Operations
Advanced Operations Techniques
Air Support Operations Officer
Cryptologic Technician Technical Field
Operations, Type One
Cryptologic Technician Technical Field
Operations Type Three

Ordnance
Aviation Ordnance Officers, Class O
Aviation Ordnance Officers
(Management), Class O
CVA/CVS Air Launched Weapons
General Ordinance
Explosive Ordnance Disposal Navy Basic
Explosive Ordnance Disposal—Reserve
Officer Training
Marine NOP (Nuclear Weapons Training
for Nuclear Ordnance Platoon Personnel)

Optician
Optician (General) Technician, Class C
Optician Laboratory Technician, Class C

Optical
Optical Character Recognition (OCR)
Operations
Optical Instrument Repairman
Optical Instrument Repairman
(Advanced)
Optical Instrument Repairman (Basic)
Optical Landing Systems Maintenance,
Class C
Optical Survey Instrument Repair
Programming for Optical Character
Recognition (OCR) System

Opticalmen
Opticalmen, Class A

Cryptologic Technician T, Field
Operations Type One, Class A3, Special
Morse
Cryptologic Technician T, Field
Operations Type Three, Class A3,
AN/FLR-11/15 Operations
IBM System 360 (OS) Advanced
Operations Techniques
Naval Security Group Direct Support
Operations
Officer Direct Support Operations, Class C4
Operations Officer Electronic Counter
Countermeasures (ECCM)
Operations Specialist, Class A1
Reserve Training Officer Direct Support
Operations, Class F1
Special Operations Technici
Special Operations Technici
Tactical Air Operations Central

Naval Security Group Direct Support
Operations

Naval Security Group Direct Support
Operations

Naval Security Group Direct Support
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Naval Security Group Direct Support
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Naval Security Group Direct Support
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Naval Security Group Direct Support
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Naval Security Group Direct Support
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Naval Security Group Direct Support
Operations
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Maintenance, 49
P-3 AN/APX-6 Radar Identification System Intermediate Maintenance, 49
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P-3 AN/AOA-1 Sonar Indicator System Intermediate Maintenance, 49
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P-3 AN/ARC-51A Communication Systems Maintenance, No. 42
P-3 AN/ARC-52 UHF Communications Maintenance, No. 21
P-3 AN/ARC-94 Communications Systems Maintenance, No. 19
P-3 AN/ARN-52 TACAN Maintenance, No. 20
P-3 AN/ASA-16 Display System Intermediate Maintenance, 43
P-3 AN/ASA-16 Indicator Group Organizational Maintenance, 44
P-3 AN/A-42 Navigation Computer Set Intermediate Level Maintenance, No. 16
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P-3 AN/ASQ-10A Magnetic Anomaly Detecting Systems Maintenance, No. 42
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P-3 Electrical System Organizational Maintenance, 48
P-3 Electrical System Intermediate Maintenance, 45
P-3 Flight Engineer’s Operational Maintenance, No. 5
P-3 Flight Engineer System, No. 6
P-3 Flight Engineer, Flight Controls System Maintenance, No. 10
P-3 Hydraulics and Flight Controls System Maintenance, No. 10
P-3 Hydraulics, Flight Control Systems and Structures Organizational Maintenance, 48
P-3 Integrated Electrical System Organizational Maintenance, 49
P-3 Ordnance Systems Organizational Maintenance, 48

Ordnanceman
Aviation Ordnanceman, Class A
Aviation Ordnanceman, Class B
Aviation Ordnanceman (Turrit), Class A
Aviation Ordnanceman (Utility), Class A
Oriëntation
Reserve Cryptologic Technician Naval Security Group Orientation

Orthopedic
Orthopedic Appliance Technician; Class A
Orthopedic Appliance Technician, Class B
Orthopedic Appliance Technician, Class C

OS
IBM System 360 Operating System (OS) Operations
IBM System 360 (OS) Advanced Coding Operations Techniques
IBM System 360 (OS) Advanced Programming Techniques
IBM System 360 Assembler Language
IBM System 360 OS COBOL Language (Entry-level)
IBM System 360 (OS) COBOL Programming
IBM System 360 (OS) Data Management
IBM System 360 (OS) PORTFORTAN IV Language (Entry-level)
IBM System 360 PORTFORTRAN Programming
IBM System 360 OS PLI Programming
IBM System 360 OS System Control

IBM System 360 OS System Control and Data Management
IBM System 360 (OS) Systems Programmer
IBM System 360 OS Systems Operators

OTOLARYNGOLOGY
Otolaryngology Technician

Overboard
Overboard Motors, Motor Maintenance and Overhaul, Class C

OV-10A
OV-10A Flight Control and Hydraulic Systems Organizational Maintenance
OV-10A Flight Control and Hydraulic Systems Intermediate Maintenance
OV-10A T76-G-10/12 Engine Intermediate/Complete Engine Repair Maintenance

Oxygen
6L16 Oxygen Generator Electrical Technician
6L16 Oxygen Generator Technician
Electrolytic Oxygen Generator 7L16
Electrolytic Oxygen Generator Operators
Oxygen Equipment (Class C)
Oxygen Generator Electrical Model 6L16 (Enlisted)
Oxygen Generator (Mechanical)
Oxygen Generator Mechanical Model 6L16 (Enlisted)

P-3
2F8D P-3 Weapon System Follow-on Training
2F87 P-3 Weapon System Follow-on Training
Fundamental Analysis Techniques (P-3)
P-3 Aircraft Familiarization, No. 2
P-3 Aircraft Familiarization for Pilots
P-3 AN/APX-125A Indicator Intermediate Maintenance
P-3 AN/APX-125A Indicator Maintenance, No. 48
P-3 AN/APX-70 Lorain System Intermediate Maintenance

Reserve Cryptologic Technician Naval Security Group Orientation
K-66  KEYWORD INDEX

P-3 PB20N Automatic Flight Control System Maintenance, No. 13  NV-1715-0060
P-3 PB-20N Autopilot System Intermediate Maintenance  NV-1715-0642
P-3 Power Generating System and AVO-2 Searchlight Intermediate Maintenance  NV-1715-0659
P-3 PT-396/AS and OA-1768/A/ASA-13 Plotter Group Intermediate Maintenance  NV-1715-0117
P-3 Radar and IFF Systems Organizational Maintenance  NV-1715-0114
P-3 Second Mechanics Systems  NV-1704-0053
P-3 Structures, Hydraulic Power and Flight-Controls Organizational Maintenance  NV-1704-0206
P-3 Synchrophaser/True Airspeed Computer/Signal Lights Control Intermediate Maintenance  NV-1715-0322
P-3 T56-A-10/14 Engine and Related Systems Organizational Maintenance  NV-1704-0609
P-3 T56-A-10W Engine and Related Systems Maintenance, No. 56  NV-1704-0017
P-3 T56-A-14 Engine and Related Systems Maintenance  NV-1704-0019

P3A/B
DIFAR Training for Acoustic Operators P3A/B(D) and PSC  NV-1715-0704
Jezkleb Gram Analysis for A/S P3A/B (DIFAR Retrofit)  NV-1715-0704
P3A/B Communications Navigation (COMM/NAV) Organizational Maintenance  NV-1715-0096
P-3A/B Sensor Station One and Two (Acoustic System Technician) Organizational Maintenance  NV-1715-0506

P3A/B(D)
AASW (Aviation Anti-Submarine Warfare) for First Tour Pilots P3A/B(D)  NV-1715-0270
AASW for Second Tour Pilots, P3A/B(D)  NV-2202-0032
Aviation Anti-Submarine Warfare (AASW) for Naval Flight Officers, P3A/B(D)  NV-1715-0555
Aviation Anti-Submarine Warfare for Second Tour Pilots, P3A/B(D)  NV-2202-0032
Electronic Warfare for Nonacoustic Operator, P3A/B(D)  NV-1715-0020
RADAR/MAD for Nonacoustic Operator P3A/B(D)  NV-1715-0678

P3C
Aviation Anti-Submarine Warfare (AASW) for First Tour Pilots, P3C  NV-1606-0028
Aviation Anti-Submarine Warfare (AASW) for Second Tour Pilots, P3C  NV-2202-0021
Aviation Anti-Submarine Warfare (AASW) Nonacoustic Operator P3C  NV-1715-0696
Aviation Anti-Submarine Warfare (AASW) Sensor Station Three Operator, P3C  NV-1715-0696
First Tour Pilot P-3C Communications Operator  NV-1715-0696
Naval Flight Officer P3C Communications Operator  NV-1704-0213
Nonacoustic Anti-Submarine Operator Transition P3C  NV-1704-0219
P-3C AN/ARX-13 Low Light Level Television Camera Intermediate Maintenance  NV-1715-0679
P-3C CP-901/ASOS-114 Computer Organizational Maintenance  NV-1402-0040
P-3C Digital Data Handling Organizational Maintenance  NV-1715-0330
P3C Integrated Avionics System Technician  NV-1715-0325
P-3C Integrated Electrical Systems Organizational Maintenance  NV-1704-0640
P-3C Sensor Station One and Two (Acoustic System Technician) Organizational Maintenance  NV-1715-0256
P-3C Sensor Station Three (Radar/Display) Integrated System Organizational Maintenance  NV-1704-0640
P-3C Sensor Station Three (Radar/Display Technician) Organizational Maintenance  NV-1715-0640
P3C Tactical Coordinator Positional Training for Naval Flight Officers  NV-1606-0043

Packard
Mine Warfare Packard Diesel Engineer (Class C)  NV-1712-0012

PAIR
Sonar AN/SQQ-23A (PAIR) Organizational Maintenance  NV-1715-0839
Sonar AN/SQQ-23 (PAIR) Operator Basic  NV-1715-0840
Panoramic
RA-SC Panoramic Camera Shop Maintenance  NV-1715-0143

Parachute
Parachute Rigger, Class A  NV-1704-0234
Parachute Rigger (Maintenance), Class A  NV-1704-0234
Parachute Rigger School, Class B  NV-1717-0012
Parachute Rigger (Survival), Class A  NV-1733-0001

Parachutist
Advanced Naval Parachutist, Class C  NV-0803-0002
Advanced Naval Parachutist, NP-I, Class C  NV-0803-0002
Basic Naval Parachutist, Class C  NV-2202-0030
Basic Naval Parachutist Course, NP-I, Class C  NV-2202-0030
Jumpmaster Naval Parachutist, Class C  NV-2202-0030

Pay
Disbursing Clerk (Pay Records Maintenance) Class C  NV-1401-0001

PB20N
P-3 PB20N Automatic Flight Control System Maintenance, No. 13  NV-1715-0600
P-3 PB-20N Autopilot System Intermediate Maintenance  NV-1715-0462

Perforator
Teletypewriter System (Afloat) Maintenance Models TT/70A/UG and AN/UUC-5 TT-252 Typing Perforator  NV-1715-0665

Peripheral
Data Systems Technician, Class C, AN/YUK-5(V) Peripheral Maintenance  NV-1715-0087
Data Systems Technician, Peripheral Equipment Maintenance  NV-1715-0047
MK 152 Computer and Peripheral Equipment/Computer Control  NV-1715-0586
Polaris Target Card Computer System Peripheral Equipment, Class C  NV-1715-0897

Persian
Persian  DD-0602-0001

Personal
Personal Financial Records Clerk  MC-1403-0003
Personal Property Traffic Management  NV-0419-0011

Personnel
Administrative Chief's Personnel Administration  MC-1406-0008
Administrative Officers Personnel Administration  MC-1408-0006
Programmer
NV-1715-0074
E-2A Semi-Automatic Check-Out Equipment (SACE) (OA-3738/ASA-48)
Programmer Maintenance
NV-1715-0348
IBM System 360 (OS) Systems Programmer
mc-1402-0041
Missile Test and Readiness Equipment (MTRE) Mk 3 Programmer/Timer
NV-1715-0884
NTDS Basic Programmer (Operational)
NV-1402-0002
NTDS Intermediate Programmer Course (CS-I)
NV-1402-0004
RA-5C Semi-Automatic Test Equipment, Programmer and System Analyzer
Intermediate Maintenance
NV-1715-0238
RA-5C Semi-Automatic Test Equipment, Programmer, System Analyzer and
Countermeasures Test Bench AN/ULM-1 Intermediate Maintenance
NV-1715-0176
Storage and Retrieval DP Operator and Programmer
NV-1402-0035
Programmers
Instructional Programmers (Class C)
NV-1406-0005
Programming
Advanced Programming Techniques
MC-1402-0024
AN/USQ-20 Basic Programming
NV-1402-0002
AN/USQ-20 Machine Language Programming
NV-1402-0019
AN/UKY-7 CMS-2 (Y) Compiler Language Programming
NV-1402-0046
Basic Programming Concepts, Class C
NV-1402-0021
Basic Programming Orientation for Middle Management
NV-1402-0015
CMS-2 Compiler Language Programming
MC-1402-0017
CMS-2 Programming (P-642 = A&B/USQ-20)
NV-1402-0009
Computer Programming Orientation
NV-1402-0014
Disk Operating System Programming
MC-1402-0004
IBM System 360 Computer System Programming (COBOL Language), Class C
NV-1402-0007
IBM System 360 (OS) COBOL Programming
MC-1402-0011
IBM System 360 (OS) Advanced Programming Techniques
MC-1402-0024
IBM System 360 (OS) COBOL Programming
MC-1402-0013
MC-1402-0036
IBM System 360 OS FORTRAN Programming
MC-1402-0034
IBM System 360 OS PL/I Programming
MC-1402-0035
IBM System 360 OS Programming
MC-1402-0030
IBM System 360 OS Systems Programming
MC-1402-0002
Marine Assembler Language Programming
MC-1402-0040
Operating System Programming
MC-1402-0004
Programming, Digital Computer CP-642A&B/USQ-20 (Machine Language
and CS-I Assembly Language)
NV-1402-0033
Programming for Optical Character Recognition (OCR) System
MC-1402-0016
Programming, NTDS Operational (Officer and Enlisted)
NV-1402-0031
System 360 Operating System—1401 Programming
MC-1402-0009
System 360 Operating System—Assembler Language Programming Phase
MC-1402-0008
System 360 Operating System—COBOL Programming Phase
MC-1402-0007
Systems Programming
MC-1402-0015
UNIVAC 1218/418/490-CP-789/UYK-
5(V) System Programming Course (COBOL Language), Class C
NV-1402-0030
Projection
Motion Picture Projection System Maintenance, Class C
NV-1715-0660
Prop
Basic Prop Flight Instructor
NV-1606-0018
Prospective ME (Prop) Flight Instructor (TS-2A Type Aircraft)
NV-1606-0020
Prospective Officer of the Deck
NV-1722-0008
Prospective Phase I CV (Jet) (TF/AF-9J) Tactical Flight Instructor
NV-1606-0037
Prospective Phase II CV (Jet) (F11A) Tactical Flight Instructor
NV-1606-0041
Prospective Prop Flight Instructor
NV-1606-0020
Prospective TA-4J Flight Instructor
NV-1606-0039
Prospective VA (Prop) Tactical Flight Instructor
NV-1606-0040
Propeller
43D50 Propeller Maintenance Class C
CG-1704-0002
Controllable Pitch Propeller, Class C
NV-1704-0174
Engineers, Class C, Controllable Pitch Propeller
NV-1704-0174
Engineers, Class C, LST 1179 Class
Controllable Pitch Propeller and Propulsion Control System
NV-1710-0023
KC-130F Propeller Intermediate Maintenance
NV-1710-0193
LST 1179/1182 Class Controllable Pitch
Propeller and Propulsion Control System, Class C
NV-1710-0023
T56-A-8/8A Engine and Ae441FN-248 Propeller
NV-1704-0029
T56-A-8/8A Engine and Aeropropulsion
Ae441FN-248 Propeller Intermediate Maintenance
NV-1704-0029
Property
Personal Property Traffic Management
NV-0419-0011
Propulsion
1200 PSI Main Propulsion Assistant
NV-1710-0019
Automated Propulsion System Operator, Class C
NV-1710-0056
Basic Propulsion Engineering, Class A
NV-1715-0174
Engineers, Class C, LST 1179 Class
Controllable Pitch Propeller and Propulsion Control System
NV-1710-0023
LST 1179/1182 Class Controllable Pitch
Propeller and Propulsion Control System, Class C1
NV-1710-0023
LST 1182 Propulsion Technician, Class C1
NV-1703-0007
Propulsion Shaft Components
NV-1710-0057
Prospective
1200 PSI Prospective Flight Officer
NV-1710-0022
Prospective Advanced Navigation Flight Instructor
NV-1606-0038
Prospective ASW Flight Instructor (S-2 Type Aircraft)
NV-1606-0020
Prospective Electronics Material Officer—Pacific Fleet, Class C
NV-1715-0816
Prospective Engineering Officer
NV-1715-0013
Prospective Engineer Officers
NV-1717-0006
Prospective ME (Prop) Flight Instructor (TS-2A Type Aircraft)
NV-1606-0020
Prospective Officer of the Deck
NV-1722-0008
Prospective Phase I CV (Jet) (TF/AF-9J) Tactical Flight Instructor
NV-1606-0037
Prospective Phase II CV (Jet) (F11A) Tactical Flight Instructor
NV-1606-0041
Prospective Prop Flight Instructor
NV-1606-0020
Prospective TA-4J Flight Instructor
NV-1606-0021
Prospective TF/TAF-9J Flight Instructor
NV-1606-0039
Prospective VA (Prop) Tactical Flight Instructor
NV-1606-0040
Prospective
Personal Property Traffic Management
NV-0419-0011
Propulsion
1200 PSI Main Propulsion Assistant
NV-1710-0019
Automated Propulsion System Operator, Class C
NV-1710-0056
Basic Propulsion Engineering, Class A
NV-1715-0174
Engineers, Class C, LST 1179 Class
Controllable Pitch Propeller and Propulsion Control System
NV-1710-0023
LST 1179/1182 Class Controllable Pitch
Propeller and Propulsion Control System, Class C1
NV-1710-0023
LST 1182 Propulsion Technician, Class C1
NV-1703-0007
Propulsion Shaft Components
NV-1710-0057
Prospective
1200 PSI Prospective Flight Officer
NV-1710-0022
Prospective Advanced Navigation Flight Instructor
NV-1606-0038
Prospective ASW Flight Instructor (S-2 Type Aircraft)
NV-1606-0020
Prospective Electronics Material Officer—Pacific Fleet, Class C
NV-1715-0816
Prospective Engineering Officer
NV-1715-0013
Prospective Engineer Officers
NV-1717-0006
Prospective ME (Prop) Flight Instructor (TS-2A Type Aircraft)
NV-1606-0020
Prospective Officer of the Deck
NV-1722-0008
Prospective Phase I CV (Jet) (TF/AF-9J) Tactical Flight Instructor
NV-1606-0037
Prospective Phase II CV (Jet) (F11A) Tactical Flight Instructor
NV-1606-0041
Prospective Prop Flight Instructor
NV-1606-0020
Prospective TA-4J Flight Instructor
NV-1606-0021
Prospective TF/TAF-9J Flight Instructor
NV-1606-0039
Prospective VA (Prop) Tactical Flight Instructor
NV-1606-0040
Prosthetic
Dental Prosthetic Technician School, Class C
NV-0701-0007
Dental Technician, Advanced Prosthetic, Class B
NV-0701-0003
Dental Technician, Maxillofacial Prosthetic
NV-0701-0001
Dental Technician, Maxillofacial Prosthetic, Class C
NV-0701-0001
Dental Technician, Prosthetic, Advanced, Class B
NV-0701-0003
Dental Technician, Prosthetic, Class C
NV-0701-0007
PT-396/ASA
P-3 PT-396/ASA and OA-1768A/ASA-13
Plotter Group Intermediate Maintenance
NV-1715-0174
V-1715-0174
Public
Civil Engineer Corps Officer
Basic—Public Works Management
Specialty
NV-1408-0014
Public Information Enlisted
NV-1408-0014
Public Information Officer
NV-1408-0014

PUFS
Sonar Receiving Set AN/BOG-4/4A (PUFS) Combined Maintenance
NV-1715-0261
Sonar Receiving Set AN/BOG PUFS Maintenance
NV-1715-0261

Pulse
NV-1715-0797

Pump
General Pump Maintenance
NV-1710-0070

Purchase
NAV Purchase
NV-1405-0005

QH-50C
QH-50C Airframe and Related Systems Intermediate Maintenance
NV-1704-0051
QH-50C Target Control System AN/SRQ-4B Intermediate Maintenance
NV-1715-0418
QH-50C Weapons System Intermediate Electronics Maintenance
NV-1715-0568

QH-50D
QH-50D Airframe and Related System Intermediate Maintenance
NV-1704-0052
QH-50D Airframe, Powerplant and Related Systems Organizational Maintenance
NV-1704-0052
QH-50D Operational Telemetry Maintenance
NV-1715-0592
QH-50D Target Control System AN/SRQ-4B Intermediate Maintenance
NV-1715-0417
QH-50D Weapons System Electronic Intermediate Maintenance
NV-1715-0633

Quality
Communications Quality Monitoring System Operator
NV-1715-0690
QH-963 Facilities Control Quality Monitoring and Message Processing (QCM) Operators, Class P-1
NV-1715-0869
QH-963 Facilities Control Quality Monitoring Processing Unit Operators
NV-1715-0869

Quarry
EO/C" Blasting and Quarry Operations
NAV-1710-0064
Equipment Operators/Blasting and Quarry Operations, Class C
NV-1710-0064

Quartermaster
Advanced Submarine Quartermaster School
NV-1708-0003
Basic Quartermaster
NV-1708-0005
Basic Quartermaster, Enlisted
NV-2202-0076
Basic Submarine Quartermaster, Class A
NV-1708-0004

R-1524(P)/WRR
Electronics Technician Class C, R-1524(P)/WRR Countermeasures Receiver Maintenance
NV-1715-0028
RA3B
A3B, RA3B, EA3B AN/ALQ-35 DECM System Maintenance
NV-1715-0525
RA-5C
A-5A RA-5C AN/ASB-12 Line and Shop Maintenance
NV-1715-0521
A-5A RA-5C AN/ASB-12 Verdan and Digital Test Equipment
NV-1402-0044
RA-5C Aircraft Familiarization (Pilot/RAN)
NV-1606-0022
RA-5C Aircraft Familiarization
NV-1606-0022
RA-5C Air Data and Flight Reference Systems
NV-1715-0454
RA-5C Air Data and Flight Reference Systems Organizational Maintenance
NV-1715-0454
RA-5C AN/AAAS-21 Infrared Detecting Set Intermediate Maintenance
NV-1715-0222
RA-5C AN/ALQ-55 DECM System
NV-1715-0687
RA-5C AN/ALQ-61 Countermeasure Set Shop Maintenance
NV-1715-0367
RA-5C AN/ALQ-61 Countermeasures Set Special Support Equipment
NV-1715-0686
RA-5C AN/ALQ-61 Passive Electronics Countermeasures Organizational Maintenance
NV-1715-0366
RA-5C AN/APD-7 Side Looking Radar (SLR) Intermediate Maintenance
NV-1715-0248
RA-5C AN/APN-120 Electronic Alimeter Intermediate Maintenance
NV-1715-0479
RA-5C AN/ASB-12 Bomb Directing Set Intermediate Maintenance
NV-1715-0579
RA-5C AN/ASB-12 Verdan and Digital Test Equipment Intermediate Maintenance
NV-1402-0044
RA-5C AN/ASQ-56A Integrated Electronics Central and Related Systems Intermediate Maintenance
NV-1715-0145
RA-5C AN/AYA-1 Signal Data Converter Group Intermediate Maintenance
NV-1715-0424
RA-5C Armament Intermediate Maintenance
NV-1704-0166
RA-5C Avionics Officers/Supervisors Familiarization
NV-1704-0038
RA-5C CNI and DECM Organizational Maintenance
NV-1704-0075
RA-5C Electrical and Indicating Systems (Intermediate Maintenance)
NV-1704-0099

RA-5C Electrical and Indicating Systems Organizational Maintenance
NV-1704-0069
RA-5C Electronic Reconnaissance Line Maintenance
NV-1715-0246
RA-5C Electronic Reconnaissance Organizational Maintenance
NV-1715-0224
RA-5C Flight Control and Electrical Systems Electronics Intermediate Maintenance
NV-1715-0601
RA-5C Flight Control Intermediate Maintenance
NV-1715-0453
RA-5C Flight Control System Electronics (Intermediate Maintenance)
NV-1715-0732
RA-5C Flight Control System Organizational Maintenance
NV-1715-0455
RA-5C Maintenance Supervisors Familiarization
NV-1717-0005
RA-5C Panoramic Camera Shop Maintenance
NV-1715-0143
RA-5C Photographic Electronics Fundamentals
NV-1715-0152
RA-5C Photo Reconnaissance Line Maintenance
NV-1715-0748
RA-5C Photo Reconnaissance System Organizational Maintenance
NV-1715-0748
RA-5C Photo Systems Electronics
NV-1715-0543
RA-5C Plane Captains Organizational Maintenance
NV-1717-0002
RA-5C Power Plants and Related Systems
NV-1704-0045
RA-5C Power Plants and Related Systems Organizational Maintenance
NV-1704-0045
RA-5C Semi-Automatic Test Equipment Air Data, Flight Reference, and Flight Control Intermediate Maintenance
NV-1715-0542
RA-5C Semi-Automatic Test Equipment Bomb Director
NV-1715-0547
RA-5C Semi-Automatic Test Equipment, Programmer, System Analyzer and Countermeasures Test Bench AN/ULM-1 Intermediate Maintenance
NV-1715-0176
RA-5C Shoehorn Organizational Maintenance
NV-1715-0269
RA-5C Side Looking Radar (SLR) AN/APD-7 (XN-1) Shop Maintenance
NV-1715-0248
RA-5C Signal Data Converter Group Test Equipment Intermediate Maintenance
NV-1715-0032
RA-5C Still Picture Camera Shop Maintenance
NV-1715-0439
RA-5C Structures and Hydraulic Sub-Systems
NV-1704-0041
RA-5C Structures and Hydraulic Sub-Systems Organizational Maintenance
NV-1704-0041
RA-5C Survival and Environmental Systems
RA-5C Survival and Environmental Systems Organizational Maintenance
NV-1704-0040
NV-1704-0040

Race
Defense Race Relations Institute
DD-1512-0001
Intercultural Relations—Race Relations Specialist Training
NV-1512-0001

Radar
A3B ASB-7 Radar Stabilization and Auxiliary Subsystems Maintenance (Less CP-209 and AN/APN-122)
NV-1715-0363
A-4C/E AN/APG-53A Radar Maintenance
NV-1715-0280
A-4C/E/F AN/APG-53A Radar Intermediate Maintenance
NV-1715-0280
A-6A AN/APQ-112 Track Radar Test Console and Detailed Radar Intermediate Maintenance
NV-1715-0435
A-6A AN/APQ-92 Search Radar and Module Analyzer Test Bench Intermediate Maintenance
NV-1715-0431
A-6 AN/APQ-112 Track Radar and Associated Test Equipment Intermediate Maintenance
NV-1715-0302
A-6 AN/APQ-92 Radar Antenna/Receiver and Associated Test Set Intermediate Maintenance
NV-1715-0514
A-6 AN/APQ-92 Search Radar and Associated Test Equipment Intermediate Maintenance
NV-1715-0509
A-6 Associated Radar Test Equipment Intermediate Level Maintenance
NV-1715-0406
A-6A Track Radar and Module Analyzer Test Console Intermediate Maintenance
NV-1715-0429
A-6 Pilot Horizontal Display, Direct View Radar Indicator Module and Associated Test Set Intermediate Maintenance
NV-1715-0297
A-6 Search Radar Module Analyzer Test Console
NV-1715-0530
A-6 Track Radar Module Analyzer Test, Console and Detailed Module Theory (Intermediate Level Maintenance)
NV-1715-0429
A-7 AN/APN-190 Doppler Radar Navigation System Intermediate Maintenance
NV-1715-0200
A-7 AN/APQ-116 Radar Set Intermediate Maintenance
NV-1715-0408
A-7E AN/APQ-126 Radar Set Intermediate Maintenance
NV-1715-0260
Airborne Radar Intercept Operator
NV-1715-0635
Air Controlman (Radar), Class A
NV-1704-0010
AN/APD-7 Side Looking Radar Intermediate Maintenance
NV-1715-0248
AN/APN-130 Radar Navigation Set Intermediate Maintenance
NV-1715-0553
AN/APN-153(V) Doppler Radar Navigation System Intermediate Maintenance

AN/APN-154(V) Radar Beacon Intermediate Maintenance
NV-1715-0507
AN/APN-171 Radar Altimeter System Class C
NV-1715-0584
AN/APN-171(V) Radar Altimeter (High Level) Intermediate Maintenance
NV-1715-0359
AN/APN-171(V) Radar Altimeter (Low Level) Intermediate Maintenance
NV-1715-0493
AN/APN-175 Doppler Radar, Navigation (Low Level) Intermediate Maintenance
NV-1715-0027
AN/APN-182(V) Radar Navigational Set Intermediate Maintenance
NV-1715-0583
AN/APN-195 Weather Radar System Class C
NV-1715-0025
AN/APQ-124A Radar Set Intermediate Maintenance
NV-1715-0428
AN/APQ-126 Radar Set Special Support Equipment Intermediate Maintenance
NV-1715-0513
AN/APS-115 Search Radar System Intermediate Maintenance
NV-1715-0516
AN/APS-20E Radar System Maintenance
NV-1715-0484
AN/APS-38B Radar System Maintenance
NV-1715-0485
AN/APS-82 Radar System Intermediate Maintenance
NV-1715-0287
AN/APX-72 Radar Indentification System Intermediate Maintenance
NV-1715-0591
AN/ASB-1A Radar Sub-System Intermediate Maintenance
NV-1715-0226
AN/ASB-7 Radar Sub-System Intermediate Maintenance
NV-1715-0235
AN/BPS-12, 13, 14 Radar System Maintenance
NV-1715-0312
AN/BPS-13 Radar Maintenance
NV-1715-0312
AN/SPA-37/7A Radar Sets, AN/SPA-63 Countermeasures Receiving Group, and AN/SPS-43/43A Radar Sets Differences
NV-1715-0790
AN/SPG-53A Radar Maintenance
NV-1715-0283
AN/SPS-29C Radar Set Maintenance (Electronics Technician, Class C1)
NV-1715-0756
AN/SPS-29E Radar Set Maintenance (Electronics Technician, Class C1)
NV-1715-0749

AN/SPS-39A Radar Set Maintenance
NV-1715-0233
AN/SPS-39 Radar Set
NV-1715-0233
AN/SPS-40B/C/D Radar Set Difference Maintenance
NV-1715-0233
AN/SPS-40B/C/D Radar Set Maintenance
NV-1715-0809
AN/SPS-40B Radar Set Maintenance (Electronics Technician, Class C1)
NV-1715-0809
AN/SPS-37A/37A Radar Set Maintenance (Electronics Technician, Class C1)
NV-1715-0790

AN/SPS-48 Radar Set
NV-1715-0304
AN/SPS-52 Radar Set
NV-1715-0524
AN/SPS-73 Radar Trainer Class C Maintenance
NV-1715-0199
Aviation Electronics Technician R (Radar), Class A
NV-1715-0295
Aviation Radar Repair
MC-1715-0055
Aviation Radar Repair (A)
MC-1715-0055
Aviation Radar Repair (B)
MC-1715-0052
Aviation Radar Repair (C)
MC-1715-0059
Aviation Radar Repair (D)
MC-1715-0054
Aviation Radar Repairman (B)
MC-1715-0052
Aviation Radar Technician
MC-1715-0058

Basic Radar
MC-1715-0061
Bright Radar Indicator Tower Equipment Maintenance, Class C
NV-1715-0286
Carrier Air Traffic Control Center Equipment Maintenance, Radar Set AN/SPN-43, Class C
NV-1715-0236
E-1B AN/APS-82 Radar System Maintenance
NV-1715-0287
E-2A AN/APS-96 Search Radar Intermediate Maintenance
NV-1715-0672
EA-6B Communications, Navigation and Radar System Organizational Maintenance
NV-1715-0311
Electronics School AN/SPS-40 Radar Set Maintenance
NV-1715-0557
Electronics Technician, Class A—A-3 (Radar)
NV-1715-0725
Electronics Technician, Class A (Communications, Radar and Sonar Specialties)
NV-1715-0727
Electronics Technician, Class A, Phase SEIR (Shipboard Equipment Indocmination, Radar)
NV-1715-0638
Electronics Technician, Class A (Radar)
NV-1715-0731
Electronics Technician, Class C, AN/SPS-29 Radar Set
NV-1715-0024
Electronics Technician, Class C, AN/SPS-37, 37A Radar Sets and AN/SPA-63 Countermeasures Receiving Group
NV-1715-0298
Electronics Technician, Class C, AN/SPS-37/A Radar Set and AN/SPA-63 Countermeasures Receiving Group
NV-1715-0298
Electronics Technician Class C, AN/SPS-40A Radar Set Maintenance
NV-1715-0006
Electronics Technician, Class C, AN/SPS-8 Radar Maintenance
NV-1715-0305
Electronics Technician, Class C, Shipboard Equipment Indocmination (Radar)
NV-1715-0638
Electronics Technician Radar Basic
NV-1715-0854
Electronics Technician Radar, Class A
Magnetic Field, Class A

Electronics Technician Radar Equipment

Technician, Class CI

Maintenance, Class C

Fleet Replacement Radar Navigator

Intermediate Maintenance

Ground Controlled Approach Radar Systems, Class CI

Electronics Technician Radar Equipment, Class C

Class C Radarman

Radarman, Class A

Radarman, Class B

Class CI Radarman School (Operational Course)

Airborne Radio Operators

AN/ARC-27 UHF Radio Set Intermediate Maintenance

AN/ARC-52 Radar Set Intermediate Maintenance

RADIAC Instrument Maintenance

RADIAC

Radio

Airborne Radio Communications Operator (ARCO)

Airborne Radio Operator/Loadmaster

Airborne Radio Operators

AN/ARC-27 UHF Radio Set Intermediate Maintenance

AN/ARC-52 Radar Set Intermediate Maintenance

AN/ARC-94 Radio Transceiver Intermediate Maintenance

AN/FRT-83, 84 and 85 Radio Transmitter Maintenance, Class C

ANGRC-27A Radio Equipment Maintenance

AN/SPN-40 Radar Navigation Set (Electronics Technician, Class CI)

AN/SRC-20, AN/SRC-21 Radio Sets Maintenance (Electronics Technician, Class CI)

AN/SRN-18 Radio Satellite Navigation Set Maintenance, Class C

KEYWORD INDEX
AN/SRN-9A, Radio Navigation Set, Operation and Maintenance  
AN/SRN-9 Satellite Radio Navigation Set Maintenance (Electronics Technician, Class C)  
AN/URT-23 Radio Transmitter With AN/URA-38 Antenna Coupler Maintenance (Electronics Technician, Class C)  
AN/WRC-1 Radio Set Maintenance (Electronics Technician, Class C)  
AN/WRT-2 Radio Transmitter Maintenance (Electronics Technician, Class C)  
Aviation Radio Repair  
Basic Airborne Radio Communications Operator  
Basic Radio  
Cryptologic Technician T, Field Operations Type Two, Class A3, International Commercial Radio (ICR) Non-Morse  
E-1B ARC-97 Radio Repeater System Maintenance  
E-2A AN/ARC-80 Radio Set Intermediate Maintenance  
E-2A Radio Set Intermediate Maintenance  
Electronics Technician AN/URN-20 Radio Set Class C Maintenance  
Electronics Technician, Class C, AN/SRN-9 Radio Navigation Set  
Electronics Technician (Class C) AN/URC-58, AN/VRC-46 Radio Sets Maintenance  
Electronics Technician, Radio Sets AN/URC-9, AN/SRC-21, AN/SRC-20 with Antenna Coupler Group AN/SRA-33 (Class A and C)  
Field Radio Operator  
Ground Radio Repair  
Ground Radio Technician  
Polaris/Poseidon Radio Navigation Set AN/BRN-3 Receiver Advanced Training, Class F1  
Polaris/Poseidon Radio Navigation Set AN/BRN-3 Receiver Advanced Training, Class F1  
Radio Aids/Unit (Device 1-D-5), Class C  
Radio and Television Production Specialist  
Radio Chief  
Radio Communications System Maintenance for DD963 Class Ships, Class C-1  
Radio Direction Finder AN/BRD-6 Combined Maintenance  
Radio Direction Finder AN/BRD-6 Operational Maintenance  
Radio Equipment Submarine Maintenance  
Radio Fundamentals  
Radio Operator  
Radio Relay Repair  
Radio Technician  
Radio Telegraph Operator  
Radio Transceiver AN/URC-58 Maintenance  
Radio Transceiver AN/WRC-1 Family Equipment  
Radio Transmitting Set AN/URT-23 (V) Maintenance (Enlisted)  
Special Ground Radio Repair  
Radioactive  
Radioactive Isotope Technician  
Radioactive Isotope Technician, Class C  
Radio beacon  
Radio beacon Operation  
Radiographic  
Radiographic Safety Officer  
Radiography  
Aircraft Maintenance Radiography School, Class C  
Radiological  
Submarine Tender Radiological Controls  
Submarine Tender Radiological Controls (Enlisted)  
Radioman  
Radioman Radioman  
Radioman Class A  
Radioman, Class B  
Submarine Radioman Electricity and Electronics  
Radionemen  
Class B, Radiomen  
Radiosonde  
Radiosonde Set Operator, Class C  
Rawin-Radiosonde Set Operator, Class C  
Rapid  
3"/50 Caliber Rapid Fire Gun Mount Maintenance  
5"/54 Rapid Fire Gun and Mount Mk 42 Mod 7 and 8, Class C1  
Gun Maintenance 5"/54 Caliber Rapid Fire Mk 42  
Rawin  
Rawin-Radiosonde Set Operator, Class C  
Rawin Set Operator, Class C  
RD-281(V)/UYK  
Data Systems Technician, Class C, Peripheral Group RD-281(V)/UYK Recorder Reproducer Magnetic Disk File Equipment Maintenance  
RD-294/UYK  
Data Systems Technician RD-294/UYK Magnetic Tape Unit Maintenance, Class C  
RD-358  
RD-358 Magnetic Tape Subsystem Accelerated  
Receicer  
AN/ALM-108 Receiver Test Console  
AN/ALQ-99, Receivers Intermediate Maintenance  
AN/ARC-131 Receiver Transmitter Intermediate Maintenance  
AN/ARN-52(V) TACAN Receiver Intermediate Maintenance  
AN/AWG-10 Receiver, Intermediate Maintenance  
AN/SPN-29 Receiver  
AN/SPN-30 Receiver  
AN/UPN-12 Loran Receiver Set Maintenance (Electronics Technician, Class C1)  
Communications Receiver Site Systems Maintenance, Class C1  
Electronics Technician, AN/SRN-14, Omega Receiver Maintenance, Class C  
Electronics Technician Class C, R-1524(P)/WWR Countermeasures Receiver Maintenance  
Electronics Technician, Class C, Wideband Synthesized Independent Sideband Receiver  
F-4J AN/AWG-10 Receiver Intermediate Maintenance  
K-74 KEYWORD INDEX

3"/50 Caliber Rapid Fire Gun Mount Maintenance
5"/54 Rapid Fire Gun and Mount Mk 42 Mod 7 and 8, Class C1
Gun Maintenance 5"/54 Caliber Rapid Fire Mk 42
Rawin
Rawin-Radiosonde Set Operator, Class C
Rawin Set Operator, Class C
RD-281(V)/UYK
Data Systems Technician, Class C, Peripheral Group RD-281(V)/UYK Recorder Reproducer Magnetic Disk File Equipment Maintenance
RD-294/UYK
Data Systems Technician RD-294/UYK Magnetic Tape Unit Maintenance, Class C
RD-358
RD-358 Magnetic Tape Subsystem Accelerated
Receicer
AN/ALM-108 Receiver Test Console
AN/ALQ-99, Receivers Intermediate Maintenance
AN/ARC-131 Receiver Transmitter Intermediate Maintenance
AN/ARN-52(V) TACAN Receiver Intermediate Maintenance
AN/AWG-10 Receiver, Intermediate Maintenance
AN/SPN-29 Receiver
AN/SPN-30 Receiver
AN/UPN-12 Loran Receiver Set Maintenance (Electronics Technician, Class C1)
Communications Receiver Site Systems Maintenance, Class C1
Electronics Technician, AN/SRN-14, Omega Receiver Maintenance, Class C
Electronics Technician Class C, R-1524(P)/WWR Countermeasures Receiver Maintenance
Electronics Technician, Class C, Wideband Synthesized Independent Sideband Receiver
F-4J AN/AWG-10 Receiver Intermediate Maintenance
Polaris/Posidon Radio Navigation Set
AN/BRN-3 Receiver Advanced Training, Class F1

RT-541/ASQ Receiver/Transmitter and
KY-309/ASQ Pulse Decoder and RT-
474/ASQ-19 Receiver/Transmitter and
KY-312/ASQ-19 Pulse Decoder
Intermediate Maintenance

S-2E AN/ARC-94 HF Receiver
Transmitter System Maintenance

Satellite Receiver AN/WBN-5 Combined
Maintenance, Class C-1

Receivers
AN/ALM-109 Test Console and
AN/ALQ-99 Tracking Receivers and
Control Modulators Intermediate
Maintenance

Receiving
AN/ALR-54 Countermeasures Receiving
Set Intermediate Maintenance

Countermeasures Receiving Set
AN/WLR-11A

Countermeasures Receiving Set
AN/WLR-1C (IV) Class F-1

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NV-1704-0175

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A-6A OA-6672/ASA-48 Universal Encoder Test Console Intermediate Maintenance

A-6A Track Radar and Module Analyzer Test Console Intermediate Maintenance

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- UH-2A/B
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- UH-2C
  - UH-2C Automatic Stabilization Equipment Intermediate Maintenance
  - UH-2C Electrical System Organizational Maintenance
  - UH-2C Power Plants, Fuel, Transmissions and Related Systems Organizational Maintenance

**TT-253/UG**
Teletypewriter Reperforator TT-253/UGC
- Turret Repairman
- TV
  - Closed Circuit TV Maintenance, Class CI
- Typewriter
  - Ships Inertial Navigation System (SINS) Mk 2 Mod 6 Selectric Typewriter, Class F1
  - SINS Mk 2 Mod 6 Selectric Typewriter Advanced Maintenance
- Typing
  - Typing and General Office Procedures (Women)
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- Typing
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  - Intermediate Maintenance
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  - Ukrainian
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  - Basic Underwater Demolition/Seal Training
  - Mark 105 Underwater Fire Control System (UFCS) Mod 28
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  - Underwater Demolition Training (Officer)
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UNREP

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The following columns cross-reference military course numbers to ID numbers for the courses listed in the course exhibit section. Readers who desire to trace courses for which they only have military course numbers as references may find the applicable courses by referring to the cross-reference list.

Each ID number begins with prefix initials which identify a specific branch of the Armed Services. The following prefixes are used:

AF—Air Force  
AR—Army  
CG—Coast Guard  
DD—Department of Defense  
MC—Marine Corps  
NV—Navy

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REQUEST FOR COURSE RECOMMENDATION

The applicant for credit must fill out one form for each service school course completed. The institutional official is responsible for verifying from official military records that the student completed the entire course, and for submitting the form to the Office on Educational Credit, American Council on Education, One Dupont Circle, Washington, DC 20036, ATTN: Military Evaluations. Please Print.

1. Exact course title (do not abbreviate) __________________________

2. Service branch offering the course:  
   - Air Force  
   - Army  
   - Coast Guard  
   - Marine Corps  
   - Department of Defense  
   - Navy

3. Name of service school attended: __________________________

4. Location (installation, state): __________________________

5. Length of course (in weeks): __________________________

6. Dates of attendance:  
   - From: ______/_____/______  
   - To: ______/_____/______

7. Official military course number: __________________________

8. MOS/AFSC/NEC: __________________________

9. Course was designed for:  
   - Warrant Officers  
   - Officer Candidates  
   - Enlisted Personnel  
   - Aviation Cadets  
   - Commissioned Officers  
   - Noncommissioned Officers

10. Rank or rating upon completion of the course: __________________________

11. Please give some indication of subjects studied in course:

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**REQUEST FOR NAVY GENERAL RATE/RATING EXHIBITS**

Officials should use this form only for requesting exhibits that contain the phrase, "Pending evaluation." As general rates and ratings are evaluated, they will be listed in the *OEC Newsletter*. When you want to obtain the recommendation for a newly-evaluated general rate or rating, identify the exhibit you are requesting by using the complete *OEC I.D. number* (e.g., NER-BT-001), and the title of the general rate or rating. Include the applicant's name if you would like the name mentioned in the OEC reply. Please check the form for accuracy before forwarding it to OEC. Submit the form to the Office on Educational Credit, American Council on Education, One Dupont Circle, Washington, DC 20036, attention Occupational Assessment Programs.

<table>
<thead>
<tr>
<th>OEC I.D. Number</th>
<th>General Rate or Rating Title Please print; do not abbreviate.</th>
<th>Name of Applicant</th>
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**Signature of Official**

**Name of Official**

**Title**

**Institution or Organization**

**Street**

**City** | **State** | **Zip/Code**

**Area Code** | **Number** | **Ext.**

Please retain file copies of any recommendations received from the OEC Information Service.
The American Council on Education, founded in 1918 and composed of institutions of higher education and national and regional education associations, is the nation's major coordinating body for postsecondary education. Through voluntary and cooperative action, the Council provides comprehensive leadership for improving educational standards, policies, and procedures.

The Office on Educational Credit is the Council's division concerned with credit and credentialing policies and practices in postsecondary education. The role of the office and its policy-making and advisory arm, the Commission on Educational Credit, is to give attention to educational credit and credentialing policies for postsecondary education; to foster high standards and sound practices for the evaluation and recognition of extra-institutional learning, to foster and operate programs to establish and publish credit equivalencies for extra-institutional learning, and to advise postsecondary education institutions on how these credit equivalencies can be used in placing students in academic programs and in credentialing educational accomplishment; to assist postsecondary education institutions in providing people with due recognition for competency, knowledge, and skills, wherever and however obtained; and to provide people with an alternative means of demonstrating high-school-graduation competencies. OEC makes credit recommendations for testing programs such as the College-Level Examination Program (CLEP) and administers the General Educational Development (GED) Testing Program. OEC also makes credit recommendations for formal courses offered by the military and other noncollegiate sponsors such as business, industry, government agencies, voluntary and professional associations, and labor unions; for Army military occupational specialties (MOS's) and Navy ratings; and for home study courses accredited by the National Home Study Council. In a new study for the U.S. Department of Labor, the Office will determine whether credit recommendations can be made for apprenticeship programs registered with the Bureau of Apprenticeship and Training. The office's Task Force on Educational Credit and Credentials has developed recommendations for improving the credit and credentialing system. The Final Report of the Task Force and a companion volume, Credentialing Educational Accomplishment, will be published in early 1978.