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Office on Educational Credit

Department of Defense, Washington, D.C.

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Postsecondary educational credit recommendations for formal courses offered by the Air Force and the Department of Defense are provided in this first of a three-volume guide. (Other volumes cover courses offered by the Army and by the Coast Guard, Marine Corps, and Navy. See note.) Following brief sections on use of the guide, the formal course exhibits are presented. Each exhibit contains such information as present and former course titles, course number, location where offered, length of course, objectives, description of instruction and subject areas covered, and credit recommendation. Credit recommendations are given in four categories: vocational certificate; lower-division baccalaureate/associate degree; upper-division baccalaureate; and graduate degree. The credit is expressed in semester hours. An appendix includes an outline on the historical development of the guide, defines the evaluation procedures used to prepare the recommendations, and includes definition and guidelines pertaining to categories of educational credit and the semester-hour standard. The concluding two sections are keyword and course number indexes. (JH)

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GUIDE TO THE EVALUATION OF EDUCATIONAL EXPERIENCES IN THE ARMED SERVICES

The 1978 Guide
New Features

The '78 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 The extensive—some said difficult—treatment on how to use the Guide has been replaced by easy-to-follow, step-by-step instructions on how to find and use the exhibits and recommendations.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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of the American Council on Education

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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. PETTASON
President
American Council on Education
How to Find and Use Course Exhibits

This volume contains recommendations for formal courses offered by the Air Force 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 the Appendix. Additional information on 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 Record Center (Military Personnel Records), 9700 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.

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., AR = Army section and DD = Department of Defense 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 course, dates of attendance, location, etc., and is provided by the applicant on the "Request for Course Recommendation" form. When the course exhibit consists of multiple versions, determine which version applies to the applicant's course by considering exhibit dates and course length. (See questions 6, 7, 8, and 12 in Questions and Answers.)
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 13-17 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, N.W.
Washington, DC 20036
ATTN: Military Evaluations
(202) 833-4685
Sample Course Exhibit

**ID Number.** A number assigned by OEC 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 cut-off for this edition of the Guide (1/78).

**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.

**Credit Recommendation.** Given in four categories: vocational certificate, lower-division baccalaureate/associate degree, upper-division baccalaureate, and graduate degree. Expressed in semester hours.

**Evaluation Date.** Date when the credit recommendation was established, month and year; in parentheses following each recommendation.
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 service-wide 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.
QUESTIONS AND ANSWERS

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 a properly completed request form to the OEC Information Service. Send copies of military records if you think they will 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 17 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. 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 1974, 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 the Appendix, 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 is evaluated, a date is provided so that you know when the course 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 comparison 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 17, for information about assessment techniques.)

13
I have looked up several courses for one applicant. It appears that a lot of the recommended credit is in the same subject area. How can I avoid granting too much credit to this person? You may grant credit for any combination of learning experiences. In doing so, however, you must be alert to the possibility of overlapping credit recommendations. If the person is applying for credit for more than one learning experience, the recommendations might cover some of the same learning. In such cases, awarding a simple total of the recommended credits could result in the award of more credit than the learning merits.

Course recommendations will overlap when the individual has participated in several military courses in the same subject area and at the same level. To identify overlapping course recommendations, carefully review the instructional description for each course the applicant completed.

14
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 course reflects learning in several subject fields at different levels of complexity. The learning acquired in a course 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 is the best for you to apply. You will need to read the exhibit and compare 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 program 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.

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 course description 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.

15
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
QUESTIONS AND ANSWERS

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.

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 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. In these cases, you may wish to conduct further assessment. (See question 17 for information about assessment techniques.)

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 Andrew 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.

I am an employer. How will the Guide be useful to me? Employers may find the exhibits helpful in hiring and placing veterans in jobs. The recommendations and descriptions enable you to compare a veteran’s training with the qualifications and requirements for jobs. The recommendations relate learning to postsecondary courses and curricula.

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

AF-0101-0001
DISEASE VECTOR AND PEST CONTROL TECHNOLOGY
Course Number: 3AZR56650.
Location: Sheppard Technical Training Center, Sheppard AFB, TX.
Length: 5 weeks (32 hours).
Exhibit Dates: 10/71-Present.
Objectives: To train enlisted personnel in the basic principles of pest control.
Instruction: Lectures and practical experience in the basic principles of pest control, including the classification and characteristics of pests, mosquito abatement procedures; field ecology; control of flies, fleas, lice, ticks, and mites; formulation, evaluation, and proper use of pesticides; operation and maintenance of insecticide dispersal equipment; and epidemiology of vector-borne diseases.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in entomology (1/74); in the upper-division baccalaureate category, 3 semester hours in entomology (1/74).

AF-0101-0002
ENGINEERING ENTOMOLOGY SPECIALIST
Course Number: ABR56630.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 8/65-Present.
Objectives: To train enlisted personnel in the basic principles of animal and vegetable pest control.
Instruction: Lectures and practical experience in the basic principles of animal and vegetable pest control, including ecology and epidemiology of vector-borne diseases; pesticide classification, safety, dispersal, and disposal; fumigation techniques; sanitation; mosquito control; and control of venomous animals, rodents, and other vertebrates.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in entomology (1/74); in the upper-division baccalaureate category, 3 semester hours in entomology (1/74).

AF-0102-0001
ANIMAL SPECIALIST
Course Number: 5ALY90831.
Location: School of Aerospace Medicine, Brooks AFB, TX.
Length: 8 weeks (259-276 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train enlisted personnel with the skills required in zoosanitary control clinics, working dog programs, and veterinary support of biomedical research.
Instruction: Lectures and laboratory in all facets of animal care, including anatomy and physiology, clinical laboratory procedures, necropsy, animal diseases, pharmacology, sanitation, zoonosis control, clinic management, and military dog care.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in laboratory animal management (2/74); in the upper-division baccalaureate category, 3 semester hours in laboratory animal management (2/74).
AF-0102-0002

COURSE EXHIBITS

ANIMAL TECHNICIAN

(LABORATORY ANIMAL TECHNICIAN)


AF-0102-0003

1. VETERINARY SPECIALIST
   (VETERINARY SPECIALIST PHASE II)

2. VETERINARY SPECIALIST

3. VETERINARY SPECIALIST

4. VETERINARY SPECIALIST
   (APPRENTICE VETERINARY SPECIALIST)

5. APPRENTICE VETERINARY SPECIALIST

AF-0102-0004

VETERINARIAN

(VETERINARY OFFICER BASIC)

Course Number: 5OBY9921; 3OBR9921.

Location: School of Aerospace Medicine, Brooks AFB, TX.

AF-0104-0001

VETERINARY TECHNICIAN


Location: School of Aerospace Medicine, Brooks AFB, TX.

AF-0202-0001

GRAPHICS PREPARATION AND ILLUSTRATION TECHNIQUES

Course Number: 3AZR22351.

Location: 770th Technical School, Sheppard AFB, TX.

AF-0306-0001

MAINTENANCE ANALYSIS TECHNICIAN


Location: School of Applied Aerospace Sciences, Chanute AFB, IL; School of Applied Aerospace Sciences, Chanute AFB, IL; 334th Technical School, Chanute AFB, IL.

Objective: To train enlisted personnel to be maintenance analysis technicians.

Instruction: All Versions: Lectures and laboratory in advanced analytical methods used in data collection assembly and analysis techniques, including communications security, maintenance management, supervision, data presentation, use of TV cameras and video tape recorders, and maintenance and man-hour data analysis.}

AF-0332-0001

SUPPLY SERVICES SUPERVISOR


AF-0406-0001

COMMISSARY OPERATIONS (COMMISSARY OFFICER) (COMMISSARY NCO) (COMMISSARY NCO/C)

AF-0419-0003

ADVANCED AIR TRANSPORTATION PASSENGER

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-0419-0005

SURFACE TRANSPORTATION OFFICER

Course Number: Version 1: OZR6041.2
Version 2: OBS6031; OBS6031.
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX.
Length: Version 1: 3 weeks (90 hours).
Version 2: 6 weeks (300 hours).
Exhibit Dates: Version 1: 1/63-12/68.
Objectives: To train officers for managerial positions in the surface transportation field.
Instruction: Lectures and practical exercises in principles of surface transportation management, including passenger and freight terminal operations, air and railroad transportation, express, parcel post, and water transportation.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0006

FREIGHT TRAFFIC SPECIALIST

Course Number: 3ABR60231.
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX.
Length: 7-9 weeks (180-204 hours).
Exhibit Dates: 12/69-12/73.
Objectives: To teach airmen the procedures for classifying, documenting, and shipping government-sponsored cargo by military and commercial motor vehicles and by rail, express, parcel post, and water carriers.
Instruction: Lectures and practical exercises in introduction to transportation, shipment planning, shipping and receiving procedures, and freight terminal operations.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0007

AIR FREIGHT SPECIALIST

Course Number: 3ABR60531; ABR6032; ABR6032.
Location: Shppard Technical Training School, Shppard AFB, TX.
Length: 7-9 weeks (180 hours).
Exhibit Dates: 7/55-7/68.
Objectives: To provide enlisted personnel with basic knowledge and technical skill in air cargo transportation and handling.
Instruction: Lectures and practical demonstrations in basic air cargo transportation and handling, including air transportation fundamentals, military air command and control systems, materials-handling, vehicle operation, aircraft loading techniques, weight and balance computation, dangerous cargo processing and handling, and planning, documentation, and warehousing of general cargo and mail.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in transportation (12/68).

AF-0419-0008

PAINTER AND HOUSING GOODS SPECIALIST

Course Number: 3ABR60132.

AF-0419-0009

FREIGHT TRAFFIC SPECIALIST

Course Number: ABR60311.
Location: School of Applied Aerospace Sciences, Shppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 11/69-12/73.
Objectives: To provide enlisted personnel with basic training in passenger and household goods transportation.
Instruction: Lectures and practical exercises in passenger and household goods transportation procedures, including planning and procuring commercial transportation for personnel and their dependents, shipment and storage of personal property, basic administrative procedures, and driver training.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0010

TRANSPORTATION OFFICER

(TRANSPORTATION OFFICER)

Course Number: 3OB6041; OBR6041; OBR6021; OBS6021.
Location: Shppard Technical Training Center, Shppard AFB, TX.
Length: 10-16 weeks (270-480 hours).
Exhibit Dates: 8/55-12/73.
Objectives: To train officers in the duties and responsibilities of a transportation officer.
Instruction: Lectures and practical experience in the management of all facets of air and surface transportation, including operation of a commercial transportation office; airlift terminal organization and operation; movement and storage of household goods; personnel transportation; transportation budget, movement of materials by air, water, rail, and pipeline.
Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in transportation management (12/68).

AF-0419-0011

AIR TRANSPORTATION OFFICER

Course Number: OZR6041-

Location: School of Applied Aerospace Sciences, Shppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 11/69-12/73.
Objectives: To provide enlisted personnel with basic training in passenger and household goods transportation.
Instruction: Lectures and practical exercises in passenger and household goods transportation procedures, including planning and procuring commercial transportation for personnel and their dependents, shipment and storage of personal property, basic administrative procedures, and driver training.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0012

1. TRANSPORTATION STAFF OFFICER
2. TRANSPORTATION STAFF OFFICER

(TRANSPORTATION OFFICER)

Course Number: Version 1: 3R60611.
Version 2: 0AB6011.
Location: Air Training Command, Shppard AFB, TX.
Objectives: To train transportation officers in all aspects of advanced transportation management.
Instruction: Lectures and supervised student projects in procedures and techniques of advanced traffic management, military traffic management, air transportation management, vehicle operation and maintenance, transportation fund management, development of transportation systems plans, and programs, data automation and systems analysis, commercial transportation services, packing, packaging, and marking materials; and military and commercial air, motor, rail, water, and pipeline movement.
Credit Recommendation: Version 1: In the upper-division baccalaureate category, 8 semester hours in transportation management (12/68).

AF-0419-0013

TRANSPORTATION OF DANGEROUS MATERIALS (RESERVE)

Course Number: 3AR60000.
Location: School of Applied Aerospace Sciences, Shppard AFB, TX.
Length: 2 weeks (40 hours).
Exhibit Dates: 6/73-12/73.
Objectives: To train airmen to perform duties of air cargo specialists in supplemental training in the handling of dangerous cargo.
Instruction: Lectures and practical exercises in general and technical training in the handling of dangerous cargo.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-0419-0014

ADVANCED AIR TRANSPORTATION CARGO

Course Number: None.
Location: 443d Military Airlift Wing, Sheppard AFB, TX.
Length: 2 weeks (80 hours).
Exhibit Dates: 2/3-12/73.

Objectives: To provide officers with advanced training in air cargo transportation.

Instruction: Lectures in air cargo transportation procedures; aircraft loading, de-loading, and movement; airframe and traffic control procedures; and military air cargo transportation procedures.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0015

ADVANCED AIRCRAFT LOADMASTER (C-5)

Course Number: A60770A-4.
Location: 443d Military Airlift Wing, Sheppard AFB, OK.
Length: 4 weeks (150 hours).
Exhibit Dates: 7/72-12/73.

Objectives: To train enlisted personnel having some experience in air transportation to perform as aircraft loadmasters.

Instruction: Lectures and practical exercises in aircraft loading and unloading, including aircraft loading, de-sizing, and aircraft handling; aircraft loading and unloading; weight and balance calculation; and aircraft loadmaster procedures.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0016

ADVANCED AIRCRAFT LOADMASTER (C-141)

Course Number: A60770A-2.
Location: 443d Military Airlift Wing, Sheppard AFB, OK.
Length: 8 weeks (225 hours).
Exhibit Dates: 2/3-12/73.

Objectives: To train enlisted personnel having some experience in air transportation to perform as aircraft loadmasters.

Instruction: Lectures and practical exercises in air transportation, including aircraft loading, de-loading, and movement; weight and balance calculation; and aircraft loadmaster procedures.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0017

AIR TRANSPORTATION OF DANGEROUS CARGO AND NUCLEAR WEAPONS

TRANSPORTATION OF DANGEROUS CARGO

Course Number: 30ZR6000; 0ZR6000.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).

Exhibit Dates: 3/64-12/73.

Objectives: To provide officers with supplemental training in the air transportation of dangerous cargo, nuclear material, and missiles.

Instruction: Lectures in the transportation of dangerous materials, including preservation, packaging, and aircraft-loading techniques, quantity-distance limitations; emergency procedures; and inspection, use, and maintenance of hoisting equipment.

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

AF-0419-0018

TRANSPORTATION OF DANGEROUS CARGO

Course Number: 30ZR61000-2.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 2 weeks (60 hours).
Exhibit Dates: 6/72-12/73.

Objectives: To train military and civilian personnel in the transportation of dangerous cargo.

Instruction: Lectures on procedures for handling, inspecting, and transporting dangerous cargo, air, land, and sea.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0019

MOTOR VEHICLE MAINTENANCE MANAGEMENT

Course Number: 3AZR60700.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 4 weeks (148 hours).
Exhibit Dates: 7/73-Present.

Objectives: To train enlisted personnel to supervise and manage motor vehicle maintenance activities.

Instruction: Lectures and practical exercises in motor vehicle maintenance management. Course includes administration and supervision techniques, maintenance scheduling, quality and material control, vehicle safety, and parts supply management.

Credit Recommendation: In the lower-division, baccalaureate/associate degree category, 6 semester hours in transportation management (7/74); in the upper-division baccalaureate category, 4 semester hours in transportation management (7/74).

AF-0419-0020

MOTOR TRANSPORTATION SUPERVISOR

Course Number: AA03070.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 2 weeks (72 hours).
Exhibit Dates: 2/3-12/73.

Objectives: To train vehicle operators and dispatchers to manage motor transportation activities.

Instruction: Lectures and practical exercises in the duties of motor transportation activities, including motor pool organization, management, site location, and operation; and supervision of vehicle operation, vehicle dispatching, maintenance and utilization, and accident prevention.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0419-0022

AIR PASSENGER SPECIALIST (RESERVE)

Course Number: 3ARR60551.
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX.
Length: 7-8 weeks (210 hours).
Exhibit Dates: 7/69-12/73.

Objectives: To train airmen as air passenger specialists.

Instruction: Lectures and practical exercises in the duties of air passenger specialists, including scheduling and processing passengers for flight, organization of air terminals, flight schedules, industrial funding and reimbursable traffic procedures, passenger eligibility, acceptance, processing, seating, and passenger baggage-handling equipment operation.

Credit Recommendation: In the lower-division, baccalaureate/associate degree category, 2 semester hours in transportation and air passenger traffic management (7/74); in the upper-division baccalaureate category, 1 semester hour in transportation and air passenger traffic management (7/74).

AF-0419-0023

AIR CARGO SPECIALIST

Course Number: 3ARR6051.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 7-8 weeks (210 hours).
Exhibit Dates: 7/69-12/73.

Objectives: To train airmen as air cargo specialists.

Instruction: Lectures and practical exercises in the duties of air cargo specialists, including air traffic control; organization, processing, documentation and warehousing of general cargo and mail; handling and processing dangerous and classified cargo; operating and maintaining air cargo and mail, weighing and balancing equipment; and computer systems.

Credit Recommendation: In the lower-division, baccalaureate/associate degree category, 6 semester hours in transportation and air cargo traffic management (7/74); in the upper-division baccalaureate category, 4 semester hours in transportation management (7/74).

AF-0419-0024

AIR CARGO SPECIALIST (RESERVE)

Course Number: 3ARR60551.
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX.
Length: 2 weeks (72 hours).
Exhibit Dates: 2/3-12/73.

Objectives: To train airmen as air cargo specialists.

Instruction: Lectures and practical exercises in the duties of air cargo specialists, including scheduling and movement procedures; processing and documentation of general, special, and dangerous cargo and mail; materials handling equipment operation; aircraft load planning; and aircraft loading and unloading.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-0419-0025

**COURSE EXHIBITS**

**AF-0504-0001**

**TECHNICAL WRITER**

**Course Number:** 3AZR752000-2.

**Location:** 3380th Technical School, Keesler AFB, MS.

**Length:** 3 weeks (120 hours).

**Exhibit Dates:** 4/71-12/73.

**Objectives:** To train enlisted personnel as technical writers.

**Instruction:** Lectures and practical exercises in technical writing, including grammar, effective sentence, paragraph, and chapter development; procedures related to Career Development Course production; and practical exercises in Career Development Course research, planning, and writing (including the writing, reviewing, and editing of a simulated or actual Career Development Course publication).

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing (12/68).

**AF-0505-0001**

**TELEVISION PRODUCTION SPECIALIST**

**Course Number:** ATS 72161-1.

**Location:** 3415th Technical School, Lackland AFB, TX.

**Length:** 7 weeks (210 hours).

**Exhibit Dates:** 5/61-12/68.

**Objectives:** To train personnel for assignment in television services.

**Instruction:** Topics include the television system, video and audio switching, staging and principles of lighting, directing concepts, recording processes, practical television production, and the television script.

**Credit Recommendation:** In the upper-division baccalaureate category, 3 semester hours in television production (11/77).

**AF-0602-0001**

**FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS**

**Programs**

- (French)
- (German)
- (Igbo)
- (Italian)
- (Lingala)
- (Portuguese)
- (Rundi)
- (Spanish)
- (Twi)
- (Vietnamese)
- (Yoruba)

**Course Number:** None.

**Location:** School of Language Studies, Arlington, VA.

**Length:** 16 weeks.

**Exhibit Dates:** 1/59-Present.

**Objectives:** The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

**Instruction:** The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reader of current newspapers, periodicals, documentary material, and literature in various professional fields of the language being studied are integral parts of each program.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing (7/74); in the upper-division baccalaureate category, credit in technical writing on the basis of institutional evaluation (12/68).

**AF-0602-0002**

**FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS**

**Programs**

- (Hausa)

**Course Number:** None.

**Location:** School of Language Studies, Arlington, VA.

**Length:** 19 weeks.

**Exhibit Dates:** 1/59-Present.

**Objectives:** The primary objective of the Foreign Service Institute's language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

**Instruction:** The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reader of current newspapers, periodicals, documentary material, and literature in various professional fields of the language being studied are integral parts of each program.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours (7/73). NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credits, officials at receiving institutions should obtain a certified Language Training Report (Form DS-651) from the Registrar of the Foreign Service Institute (Department of State, 1400 Key Boulevard, Arlington, Virginia 22209).

**AF-0602-0003**

**FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS**

**Programs**

- (Arabic)

**Course Number:** None.

**Location:** School of Language Studies, Arlington, VA.

**Length:** 20 weeks.

**Exhibit Dates:** 1/59-Present.

**Objectives:** The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

**Instruction:** The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reader of current newspapers, periodicals, documentary material, and literature in various professional fields of the language being studied are integral parts of each program.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 12 semester hours (7/73). NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credits, officials at receiving institutions should obtain a certified Language Training Report (Form DS-651) from the Registrar of the Foreign Service Institute (Department of State, 1400 Key Boulevard, Arlington, Virginia 22209).

**AF-0602-0004**

**FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS**

**Programs**

- (Dari)
- (Dutch)
- (French)
- (German)
- (Italian)
- (Norwegian)
- (Portuguese)
- (Spanish)
- (Swedish)

**Course Number:** None.

**Location:** School of Language Studies, Arlington, VA.

**Length:** 20 weeks.

**Exhibit Dates:** 1/59-Present.

**Objectives:** The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

**Instruction:** The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reader of current newspapers, periodicals, documentary material, and literature in various professional fields of the language being studied are integral parts of each program.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 12 semester hours (7/73). NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credits, officials at receiving institutions should obtain a certified Language Training Report (Form DS-651) from the Registrar of the Foreign Service Institute (Department of State, 1400 Key Boulevard, Arlington, Virginia 22209).
communicator and reader of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 18 semester hours for each course (7/73). NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Form DS-651) from the Registrar of the Foreign Service Institute (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).

AF-0602-0008
FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS
(SWAHILI)

Course Number: None
Location: School of Language Studies, Arlington, VA.
Length: 32 weeks
Exhibit Dates: 1/59-Present

Objectives: The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

Instruction: The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reader of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 18 semester hours for each course (7/73). NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).

AF-0602-0009
FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS
(DANISH) (GERMAN) (NORWEGIAN)

Course Number: None
Location: School of Language Studies, Arlington, VA.
Length: 32 weeks
Exhibit Dates: 1/59-Present

Objectives: The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

Instruction: The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reader of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 18 semester hours for each course (7/73). NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).

AF-0602-0010
FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS
(AFRICAN)

Course Number: None
Location: School of Language Studies, Arlington, VA.
Length: 24 weeks
Exhibit Dates: 1/59-Present

Objectives: The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

Instruction: The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reader of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 18 semester hours for each course (7/73). NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).

AF-0602-0011
FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS
(Russian)

Course Number: None
Location: School of Language Studies, Arlington, VA.
Length: 24 weeks
Exhibit Dates: 1/59-Present

Objectives: The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

Instruction: The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reader of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 18 semester hours for each course (7/73). NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).
develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reading of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 20 semester hours, for each course (7/73).

NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Form DS-651) from the Registrar of the Foreign Service Institute (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).

**AF-0602-0010**

**FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS**

(RUMANIAN)

Course Number: None.

Location: School of Language Studies, Arlington, VA.

Length: 44 weeks.

Exhibit Dates: 1/59-Present.

Objectives: The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

Instruction: The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reading of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 24 semester hours, for each course (7/73).

NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Form DS-651) from the Registrar of the Foreign Service Institute (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).

**AF-0602-0011**

**FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS**

(ARMENIAN)

(Arabic—Eastern)

(CHINESE—Standard)

(JAPANESE)

Course Number: None.

Location: School of Language Studies, Arlington, VA.

Length: 9 weeks.

Exhibit Dates: 1/59-Present.

Objectives: The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

Instruction: The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reading of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 27 semester hours, for each course (7/73).

NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Form DS-651) from the Registrar of the Foreign Service Institute (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).

**AF-0602-0012**

**FOREIGN SERVICE INSTITUTE LANGUAGE PROGRAMS**

(AMHARIC)

(Arabic)

(Arabic—Western)

(Bengali)

(Chinese—Cantonese)

(Chinese—Mandarin)

(Dari—Afghan Persian)

(Japanese)

(Korean)

(Lao)

(Nepali)

(Filipino/Taiyalong)

Course Number: None.

Location: School of Language Studies, Arlington, VA.

Length: 44 weeks.

Exhibit Dates: 1/59-Present.

Objectives: The primary objective of the Foreign Service Institute language programs of the Department of State is to develop oral-aural proficiencies in languages for foreign affairs personnel assigned overseas.

Instruction: The curriculum is designed to help students acquire language skills to meet general social demands and to further develop the competence to handle professional work-related requirements within special fields; learning to be an effective communicator and reading of current newspapers, periodicals, documentary material and literature in various professional fields of the language being studied are integral parts of each program.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, a maximum of 56 semester hours, for each course (7/73).

NOTE: Credit recommendation is based on an on-site evaluation. Before awarding credit, officials at receiving institutions should obtain a certified Language Training Report (Form DS-651) from the Registrar of the Foreign Service Institute (Department of State; 1400 Key Boulevard; Arlington, Virginia 22209).

**AF-0701-0001**

**INDEPENDENT DUTY DENTAL TECHNICIAN**

Course Number: 3AZR89170.

Location: Sheppard Technical Training Center, Sheppard AFB, TX.

Length: 5 weeks (150 hours).

Exhibit Dates: 8/70-12/73.

Objectives: To train dental assistants to become independent-duty dental technicians.
**AF-0701-0005**  
**DENTAL ASSISTANT (PHASE I)**  
**Course Number:** 3ALR98330  
**Location:** Sheppard Technical Training Center, Sheppard AFB, TX.  
**Length:** 18 weeks (540 hours).  
**Exhibit Dates:** 7/72-12/73.  
**Objectives:** To provide enlisted personnel with auxiliary training in the field of dental assisting.  
**Instruction:** Lectures and practical experience in advanced dental assisting, including postoperative treatment; making impressions; placing and removing suture; irrigating and medicating root canals; constructing and placing temporary crowns and temporary fixed partial dentures; and placing, carving, and finishing temporary and permanent restorations.  
**Credit Recommendation:** In the upper-division baccalaureate category, 3 semester hours in dental assisting, 3 in dental hygiene, all on the basis of institutional evaluation (2/74).  

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**AF-0701-0006**  
**DENTAL ASSISTANT (PHASE II)**  
**Course Number:** 3AR98370.  
**Location:** Sheppard Technical Training Center, Sheppard AFB, TX.  
**Length:** 8 weeks (320 hours).  
**Exhibit Dates:** 11/72-12/73.  
**Objectives:** To provide enlisted personnel with auxiliary training in the field of dental assisting.  
**Instruction:** Lectures and practical experience in advanced dental assisting, including postoperative treatment; making impressions; placing and removing suture; irrigating and medicating root canals; constructing and placing temporary crowns and temporary fixed partial dentures; and placing, carving, and finishing temporary and permanent restorations.  
**Credit Recommendation:** In the upper-division baccalaureate category, 3 semester hours in dental assisting, 2 in dental hygiene, all on the basis of institutional evaluation (2/74).  

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**AF-0701-0008**  
**PREVENTIVE DENTISTRY SPECIALIST**  
**Course Number:** 3ALR98131.  
**Location:** Sheppard Technical Training Center, Sheppard AFB, TX.  
**Length:** Version 1: 1 week (40 hours).  
**Version 2:** 2 weeks (240 hours).  
**Exhibit Dates:** Version 1: 8/72-12/73.  
**Version 2:** 8/72-12/73.  
**Objectives:** To train enlisted personnel as preventive dentistry specialists.  
**Instruction:** All Versions: Lectures and practical exercises in preventive dentistry, including pathology, elementary chairside assisting, clinical procedures, oral hygiene, prophetic procedures, periodontal anatomy and physiology, and communicative skills.  
**Version 1:** Instruction includes radiology.  
**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 5 semester hours in complete denture prosthetics (7/74); in the upper-division baccalaureate category, 5 semester hours in complete denture prosthetics (7/74); in the lower-division baccalaureate/associate degree category, 5 semester hours in complete denture prosthetics (7/74); in the upper-division baccalaureate category, 2 semester hours in dental laboratory technology on the basis of institutional evaluation (12/68).  

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**AF-0701-0011**  
1. **CROWN AND FIXED PARTIAL DENTURE PROSTHETICS**  
2. **CROWN AND BRIDGE DENTAL**  
**Course Number:** Version 1: 3AZR98270-5; AAR98270-2.  
**Version 2:** AAR98270-2.  
**Location:** Version 1: Sheppard Technical Training Center, Sheppard AFB, TX.  
**Version 2:** Medical Service School, Gunter AFB, AL.  
**Length:** Version 1: 7-8 weeks (240-268 hours).  
**Version 2:** 3 weeks (179 hours).  
**Exhibit Dates:** Version 1: 12/61-12/73.  
**Version 2:** 12/61-12/67.  
**Objectives:** To train dental laboratory specialists in the fundamentals of crown and bridge techniques.  
**Instruction:** Lectures and laboratories in the fundamentals of crown and bridge techniques.  
**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 4 semester hours in dental laboratory technology on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in dental laboratory technology on the basis of institutional evaluation (12/68).  

**AF-0701-0012**  
**REMOVABLE PARTIAL DENTURE PROSTHETICS**  
**Course Number:** Version 1: 3AZR98270-6; Version 2: AAR98270-6; Version 3: AAR98270-3.  
**Location:** All Versions: School of Health Care Sciences, Sheppard AFB, TX.  
**Version 1:** Medical Service School, Gunter AFB, AL.  
**Length:** Version 1: 3 weeks (138 hours).  
**Version 2:** 6-7 weeks (210-230 hours).  
**Exhibit Dates:** Version 1: 7/73-12/73.  
**Version 2:** 12/61-6/67.  
**Objectives:** To provide enlisted personnel with the skills necessary to cast removable dentures.  
**Instruction:** Lectures and practical experience in the basic principles of casting chrome-cobalt removable dentures, including design and duplication; setting, finishing, polishing, and repairing completed dentures; and preventive maintenance.  
**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in dental laboratory technology on the basis of institutional examination (2/74); in the upper-division baccalaureate category, 2 semester hours in dental laboratory technology on the basis of institutional examination (2/74); in the upper-division baccalaureate category, credit in dental laboratory technology on the basis of institutional evaluation (12/68).  

**AF-0701-0013**  
1. **DENTAL SPECIALIST**  
2. **APPRENTICE DENTAL SPECIALIST**  
**Course Number:** Version 1: 3ABR98130; ABR98130-1.  
**Version 2:** ABR98130.  
**Location:** All Versions: School of Health Care Sciences, Sheppard AFB, TX.  
**Length:** Version 1: 8 weeks (268 hours).  
**Version 2:** 8 weeks (268 hours).  
**Exhibit Dates:** Version 1: 8/72-12/73.  
**Version 2:** 8/72-12/73.  
**Objectives:** To provide enlisted personnel with auxiliary training in the field of dental assisting.  
**Instruction:** Lectures and practical experience in advanced dental assisting, including postoperative treatment; making impressions; placing and removing suture; irrigating and medicating root canals; constructing and placing temporary crowns and temporary fixed partial dentures; and placing, carving, and finishing temporary and permanent restorations.  
**Credit Recommendation:** In the upper-division baccalaureate category, 3 semester hours in dental assisting, 2 in dental hygiene, all on the basis of institutional evaluation (2/74).  

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**Air Force**

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COURSE EXHIBITS

Location: Version 1: Sheppard Technical Training Center, Sheppard AFB, TX. Version 2: School of Aviation Medicine, Gunter AFB, AL.


Objectives: To train enlisted personnel to perform as assistant dental specialists.

Instruction: Lectures and practical experience in dental anatomy, oral pathology, clinical procedures, radiography, dental equipment maintenance, and dental office administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in dental assisting on the basis of institutional evaluation (12/68). In the upper-division baccalaureate category, credit in dental technology on the basis of institutional evaluation (12/68).

AF-0701-0014
DENTAL LABORATORY TECHNICIAN
Course Number: AA99270
Location: School of Aviation Medicine, Gunter AFB, AL.
Length: 12-16 weeks (624-626 hours). Exhibit Dates: 5/52-6/68. Objectives: To train enlisted personnel to perform the duties of a dental laboratory technician.

Instruction: Lectures and practical experience in dental laboratory techniques, including field dental equipment, prosthetic laboratory techniques, dental materials, oral pathology, applied anatomy and physiology, and oral medicine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in dental laboratory technology on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in dental laboratory technology on the basis of institutional evaluation (12/68).

AF-0701-0015
DENTAL Technician
(DENTAL Technician ADVANCED)
Location: Version 1: Sheppard Technical Training Center, Sheppard AFB, TX. Version 2: Medical Service School, Gunter AFB, AL. Version 3: School of Aviation Medicine, Gunter AFB, AL.


Objectives: To train enlisted personnel to assist a dentist.

Instruction: All Versions: Lectures and practical exercises in dental assisting and preventive dentistry. Course includes introduction to dental assisting, elementary chairside sitting and scaling of teeth.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in dental assisting (1/74); in the upper-division baccalaureate category, credit in dental technology on the basis of institutional evaluation (12/68).

AF-0701-0017
CHROME-COBALT DENTAL PROSTHESIS
Course Number: AAU98270-B; DUN9051-1.
Location: School of Aviation Medicine, Gunter AFB, AL.
Length: 2-6 weeks (74-234 hours). Exhibit Dates: 8/54-12/68.

Objectives: To train enlisted personnel in the fundamentals of cast partial denture prosthetics, with emphasis on the use of chrome-cobalt metal.

Instruction: Lectures and laboratories in the fundamentals of cast partial denture prosthetics, including design, duplicating, waxing, investing, casting, and finishing partial dentures in chrome-cobalt metal.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in dental laboratory technology on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in dental laboratory technology on the basis of institutional evaluation (12/68).

AF-0702-0001
CARDIOPULMONARY LABORATORY SPECIALIST
Course Number: 3AL091630.
Location: Malcolm Grow USAF Hospital, Andrews AFB, MD.
Length: 39 weeks (1560 hours).
Exhibit Dates: 7/68-Present.

Objectives: To train medical corporals to function as cardiopulmonary laboratory technicians.

Instruction: Lectures and clinical application in anatomy and physiology, electrocardiography, phonocardiography, stress tests, blood pressure recording, cardiac catheterization, angiography and arteriography, drug reaction studies and procedures; anatomy and physiology of the lungs; inhalation therapy; blood gas analysis; and pulmonary function studies.

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

AF-0702-0003
CLINICAL LABORATORY OFFICER
Course Number: OBR9151.
Location: Medical Service School, Gunter AFB, AL.
Length: 16 weeks (624-640 hours).
Exhibit Dates: 3/55-12/68.

Objectives: To provide the student with the skills necessary to supervise and administer a medical laboratory.

Instruction: Lectures and practical clinical exercises in electrocardiography, bacteriology, chemistry, hematology, histology, parasitology, immunohematology, urinalysis, preventive medicine, veterinary service, and laboratory administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 30 semester hours in clinical laboratory (2/74); in the upper-division baccalaureate category, 6 semester hours in advanced clinical laboratory techniques (12/68).

AF-0702-0004
MEDICAL LABORATORY TECHNICIAN
Course Number: Version 1: SAZY90470.
AF-0702-0005

1. Medical Laboratory Specialist, Phase I

2. Medical Laboratory Specialist, Phase II

3. Medical Laboratory Specialist, Phase III

4. Apprentice Medical Laboratory Specialist

Credit Recommendation: Version 1. In the lower-division baccalaureate/associate degree category, 30 semester hours toward MLT (2/74); in the upper-division baccalaureate/associate degree category, 10 semester hours in medical technology or 10 in biology or chemistry (2/74). Version 2. In the lower-division baccalaureate/associate degree category, 30 semester hours toward MLT (2/74); in the upper-division baccalaureate/associate degree category, 10 semester hours in science for non-science majors or 5 in biology or chemistry for science majors (12/68).

AF-0702-0006

Histopathology/Cytotechnology Specialist

Credit Recommendation: Version 1. In the lower-division baccalaureate/associate degree category, 2 semester hours in medical technology, 6 in microbiology and bacteriology, 6 in hematology, 6 in cytology, and 6 in cytotechnology (2/74). Version 2. In the lower-division baccalaureate/associate degree category, 2 semester hours in medical technology, 6 in microbiology and bacteriology, 6 in hematology, 6 in cytology, and 6 in cytotechnology (2/74).

AF-0703-0001

Medical Service Technician (Vocational Nurse)

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in medical technology, 6 in microbiology and bacteriology, 6 in hematology, 6 in cytology, and 6 in cytotechnology (2/74).
AF-0703-0005
Operating Room Supervisor
- Course Number: 30ZR9736.
- Location: School of Health Care Sciences, Sheppard AFB, TX.
- Length: 22 weeks (837 hours).
- Exhibit Dates: 7/72-12/73.
- Objectives: To train qualified registered nurses to supervise surgical services.

Instruction: Lectures and practical exercises in interpersonal relationships; guidance and job descriptions; performance standards; in-service education; safety; infection control; nursing processes and care evaluation; management principles and organization; budget; disaster planning; collective bargaining; and nursing service evaluation.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in nursing management (2/74).

AF-0703-0006
Nursing Service Management
- Course Number: 30ZR9711-3.
- Location: School of Health Care Sciences, Sheppard AFB, TX.
- Length: 17 weeks (690 hours).
- Exhibit Dates: 7/27-12/73.
- Objectives: To train registered nurses for managerial and supervisory duties in military facilities.

Instruction: Lectures and practical exercises in research, problem-solving techniques; work simplification; data processing; human relations; in-service education; evaluation of nursing care; budget control; disaster planning; and collective bargaining and standards of accreditation.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in nursing management (2/74).

AF-0703-0007
1. Medical Service Fundamentals
2. Medical Helper
3. Basic Medical

AF-0703-0008
Flight Nurse
- Course Number: 50LY9761, 0LY9761, OZY9700.
- Location: School of Aerospace Medicine, Brooks AFB, TX; School of Aviation Medicine, Gunter AFB, AL.
- Length: 5-6 weeks (170-234 hours).
- Exhibit Dates: 9/54-Prent.
- Objectives: To train personnel in the duties and responsibilities necessary to perform patient care during aeromedical evacuation.

Instruction: Lectures and practical exercises in physiological education, aerospace nursing, survival, preventive medicine, and flying safety.

Credit Recommendation: In the upper-division baccalaureate/associate degree category, 2 semester hours in anatomy and physiology, 3 in basic nurse skills, 3 in medical-surgical procedures (7/74).

AF-0703-0009
Pediatrics Nurse Practitioner
- Course Number: OAY9755.
- Location: Wilford Hall Medical Center, Lackland AFB, TX.
- Length: 21 weeks (840 hours).
- Exhibit Dates: 7/71-12/71.
- Objectives: To prepare nurse corps officers to assume an expanded role in providing comprehensive health services to children.

Instruction: Lectures and practical exercises in pediatric physical examinations, newborn care, growth and development, nutrition, immunizations, prematurity, infectious disease, behavioral problems, mental retardation, neurology, allergy, hematology, poisoning, dermatology, and pediatric gynecology.

Credit Recommendation: In the upper-division baccalaureate category, 8 semester hours in clinical practice (6/75).
AF-0703-0010

ENVIRONMENTAL HEALTH NURSING: RESIDENCY
Course Number: SOAY9731.
Location: School of Aerospace Medicine, Brooks AFB, TX.
Length: 36 weeks (1,440 hours).
Exhibit Dates: 07/77-Present.
Objectives: To train nurses to perform as members of environmental health teams.
Instruction: Topics include occupational health, preventive medicine, community health, aerospace physiology and medicine, and flight and missile medicine.
Credit Recommendation: Pending evaluation.

AF-0704-0001

PHYSICAL THERAPY TECHNICIAN
Course Number: 3AZR91370.
Location: School of Health Care Sciences, Sheppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 7/67-12/73.
Objectives: To provide physical therapy assistants with advanced training in physical therapy techniques and clinical management.
Instruction: Lectures include administrative procedures, personnel supervision, advanced anatomy, patient treatment and prognosis, and clinical procedures and therapeutic exercises.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology; 6 in physical therapy; 3 in management (2/74); in the upper-division baccalaureate category, 3 semester hours in elementary anatomy and physiology; 8 in physical therapy; 3 in management (2/74).

AF-0704-0002

PHYSICAL THERAPY SPECIALIST
Course Number: 3ABR91330.
Location: Sheppard Technical Training Center, Sheppard AFB, TX.
Objectives: To train enlisted personnel to assist physical therapists in clinics.
Instruction: Practical exercises in neurological system and musculoskeletal system anatomy, rehabilitation procedures, exercises and other therapeutic procedures, and medical and surgical conditions necessary in treating musculoskeletal and neurological disorders.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in first aid or disaster training, 30 in physical therapy assisting, and credit in nursing on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 3 semester hours in first aid or disaster training, 30 in physical therapy assisting, and credit in nursing on the basis of institutional evaluation (2/74); Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in physical therapy assisting, and credit in nursing on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in anatomy or physiology, and credit in physical therapy on the basis of institutional evaluation (12/68).

AF-0704-0003

PHYSICAL THERAPY (ADVANCED)
Course Number: 50ZV9236.
Location: Lackland Hall Medical Center, Lackland AFB, TX.
Length: 4 weeks (160 hours).
Exhibit Dates: 3/68-12/73.
Objectives: To update knowledge of physical therapists in all areas of responsibility and increase effectiveness in treatment of the severely disabled.
Instruction: Lectures and practical exercises in disease and disability, with special emphasis on extended care, treatment procedures, orthotics and prosthetics, and the organization and administration of physical therapy units and their relationship to other health services.
Credit Recommendation: No credit because of the professional nature of the training (6/75).

AF-0705-0001

RADIOLOGY TECHNICIAN
Location: Version 1: Medical Service School, Sheppard AFB, TX. Version 2: Medical Service School, Gunter AFB, AL. Version 3: School of Aviation Medicine, Gunter AFB, AL.
Objectives: To provide radiology personnel with advanced training in radiologic technology.
Instruction: Lectures and practical exercises in radiographic fundamentals, anatomy and physiology, radiographic techniques, special radiographic positions, special equipment and procedures, radiation protection, and administration.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in physics, 2 in anatomy and physiology (7/74); in the upper-division baccalaureate category, 2 semester hours in physics, 2 in anatomy and physiology (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in physics, 2 in anatomy and physiology (7/74). In the upper-division baccalaureate category, 2 semester hours in anatomy and physiology (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in physics, 2 in anatomy and physiology (7/74). In the upper-division baccalaureate category, credit in anatomy and physiology on the basis of institutional evaluation (12/68).

AF-0706-0001

OPHTHALMOLOGY SURGICAL TECHNICIAN
Course Number: AZAY91270.
Location: School of Aerospace Medicine, Brooks AFB, TX.
Length: 5 weeks (200 hours).
Exhibit Dates: 7/69-Present.
Objectives: To prepare ophthalmology assistants to assume greater responsibility in the care and treatment of ophthalmology patients.
Instruction: Practical application of routine visual testing; fitting and adjusting glasses; administration of eye drops and ointments; emergency care and dressings; preoperative preparation; assisting the ophthalmologist in surgical procedures; and care and maintenance of equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in visual testing, 2 in anatomy and physiology units and their relationship to other health services.

AF-0706-0002

OPTOMETRY SPECIALIST
Course Number: 3ABR91235.
Location: Sheppard Technical Training Center, Sheppard AFB, TX.
Length: 14 weeks (425 hours).
Exhibit Dates: 6/71-12/73.
Objectives: To train airmen as optometry specialists.
Instruction: All Versions: Lectures and practical exercises in radiology, including radiographic fundamentals and procedures.
Version 1: Topics include medical service fundamentals, ophthalmology and radiographic considerations of the upper extremity, control of film quality, and radiographic considerations of the lower extremity.
Version 2: Topics include disease and disability, with special emphasis on extended care, treatment procedures, orthotics and prosthetics, and the organization and administration of physical therapy units and their relationship to other health services.
Credit Recommendation: Version 1: No credit because of the professional nature of the training (6/75).
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COURSE EXHIBITS

Objectives: To train airmen to assist in an ophthalmological clinic or physician's office.

Introduction: Lectures and practical exercises in basic ophthalmic anatomy and physiology; basic niptics, use and maintenance of ophthalmic testing equipment, visual therapy; medical ethics; asepsis, ocular first aid and emergency treatment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in physical science, 4 in chemistry, 4 in biology, 2 in industrial psychology, and additional credit in aviation science on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in physiology and hygiene (5/73).

AF-0707-0001

MILITARY ASPECTS OF SANITARY AND INDUSTRIAL HYGIENE ENGINEERING

Course Number: OBR9121

Location: Medical Service School, Gunter AFB, AL.

Length: 8 weeks (320 hours).

Exhibit Dates: 8/2-12/68.

Objectives: To provide the essential knowledge and skills necessary to perform sanitary and industrial hygiene duties.

Introduction: Aerospac medicine, including aviation medicine training; entomology; principles of medicine and surgery, veterinary training; and radiological health, including disaster medicine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 year in sanitary engineering (7/74); in the upper-division baccalaureate category, 2 semester hours in community sanitation (12/68).

AF-0707-0002

GENERAL PREVENTIVE MEDICINE, RESIDENCY, PHASES II AND III

Course Number: OAY9336

Location: School of Aerospace Medicine, Brooks AFB, TX.

Length: 9 weeks (360 hours).

Exhibit Dates: 9/22-10/6.

Objectives: To prepare medical officers to practice in the specialized field of general preventive medicine.

Introduction: Lectures and practical exercises in aerospace medicine, educational methodology; entomology; environmental medicine; general preventive medicine; global medicine to include epidemiology and infectious diseases; occupational and disaster medicine; and research methodology.

Credit Recommendation: No credit due to the professional nature of the course (6/75).

AF-0707-0003

AIR ENVIRONMENTAL ENGINEERING

Course Number: OBY9121

Location: School of Aerospace Sciences, Brooks AFB, TX.


Objectives: To train biological engineering technicians in aerospace medicine through the application of biological and engineering principles to aviation environments.

Instruction: Lectures on aerodynamics, flight mechanics, vehicle performance, and environmental chemistry and human engineering.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in physical science, 4 in chemistry, 4 in biology, 2 in industrial psychology, and additional credit in aviation science on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 4 semester hours in physical science, 4 in chemistry, 4 in biological science, 2 in industrial psychology, and additional credit in aviation science on the basis of institutional evaluation (2/74).

AF-0707-0004

PREVENTIVE MEDICINE TECHNICIAN

Course Number: All Versions: AAY90770.

Location: School of Aerospace Medicine, Brooks AFB, TX.

Version 1: Medical Service School, Gunter AFB, AL.


Objectives: To train enlisted personnel as preventive medicine technicians.

Instruction: Lectures and practical exercises in preventive medicine, including management of the Aerospace Medicine program; general hygiene; waste water and waste disposal, medical entomology, occupational health, atmospheric sampling and radiological health.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in sanitary bacteriology, 2 in elementary preventive medicine (12/68).

AF-0707-0005

1. PREVENTIVE MEDICINE SPECIALIST
2. PREVENTIVE MEDICINE SPECIALIST
3. APPOINTMENT PREVENTIVE MEDICINE SPECIALIST
4. APPOINTMENT PREVENTIVE MEDICINE SPECIALIST


Location: Version 1: School of Aerospace Medicine, Brooks AFB, TX. Version 2: School of Medical Service School, Gunter AFB, AL. Version 3: School of Aerospace Medicine, Brooks AFB, TX. Version 4: School of Aviation Medicine, Gunter AFB, AL.


Objectives: To train personnel as preventive medicine specialists.

Instruction: All Versions: Lectures and practical exercises in the duties of preventive medicine specialists, including bioenvironmental engineering, disaster medicine, medical entomology, occupational health programs, radiological health programs, and sanitary engineering.

Credit Recommendation: Version 1: Topics include acoustics, basic orientation, disease epidemiology, educational methods, environmental surveys, fundamentals of science, illumination, medical aspects of missile operations, and ventilation. Version 2: Topics include preventive medicine, aircraft accident investigation, medical administration, field training, and military public health. Version 3: Topics include aeromedical evacuation, aeromedical sciences, category 4 medical, bionasal acoustics, basic mathematics and chemistry, industrial hygiene, water supply and swimming pool sanitation, food service, industrial hygiene, and industrial hygiene.

AF-0707-0006

INDUSTRIAL HYGIENE MEASUREMENTS

Course Number: AZ9Y907X0-2.

Location: School of Aerospace Medicine, Brooks AFB, TX.

Length: 2 weeks (61-72 hours).

Exhibit Dates: 7/76-Present.

Objectives: To provide advanced training in the evaluation and control of industrial health and safety hazards.
AF-0707-0007

ENVIRONMENTAL PROTECTION

Course Number: 5AZY070X-01.
Location: School of Aerospace Medicine, Brooks AFB, TX.
Length: 2 weeks (60 hours).
Exhibit Dates: 8/76-Present.
Objectives: To provide technical training in the survey, analysis, and control of environmental pollution.
Instruction: Topics include air and water pollution, solid-waste disposal, and noise pollution.
Credit Recommendation: Pending evaluation.

AF-0707-0008

ENVIRONMENTAL HEALTH SPECIALIST

Course Number: 5ABY0730.
Location: School of Aerospace Medicine, Brooks AFB, TX.
Length: 11 weeks (339 hours).
Exhibit Dates: 9/73-Present.
Objectives: To provide basic instruction in environmental health.
Instruction: Course includes microbiology, environmental engineering, mechanics, sanitation, occupational health, and medical hygiene.
Credit Recommendation: Pending evaluation.

AF-0708-0001

PSYCHIATRIC WARD SPECIALIST

Course Number: Version 1: 3ALR91431.
Version 2: ABR91431-1.
Version 3: ABR90238.
Location: Version 1: Sheppard Technical Training Center, Sheppard AFB, TX.
Version 2: Sheppard Technical Training Center, Sheppard AFB, TX.
Version 3: Medical Service School, Gunter AFB, AL.
Length: Version 1: 6 weeks (180 hours).
Version 2: 14 weeks (420 hours).
Version 3: 16 weeks (615 hours).
Exhibit Dates: Version 1: 7/68-12/73.
Objectives: To train enlisted personnel to assist psychiatrists and psychiatric nurses.
Instruction: Lectures and practical experience in basic concepts of mental health and mental illness, psychiatric team roles, recognition of abnormal behavior, observation and recording techniques, protective measures, and various therapies for psychiatric patients.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in psychiatric nursing, additional credit on the basis of institutional evaluation (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in psychiatric nursing, additional credit on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in psychiatric nursing on the basis of institutional evaluation (12/68).

AF-0709-0001

DIET THERAPY SPECIALIST

Course Number: 3ABR62231-1.
Location: Air Force Medical Service School, Gunter AFB, AL.
Length: 11-13 weeks (338-428 hours).
Exhibit Dates: 9/69-12/73.
Objectives: To train enlisted personnel in food service administration.
Instruction: Lectures and practical exercises in medical food service administration, basic and applied clinical nutrition, diet modifications and revisions, introduction to cooking standard recipes, food production, and services; and food ordering and purchasing.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in food service, hotel-motel management, or diet therapy, 3 in nutrition nursing (2/74); in the upper-division baccalaureate category, 9 semester hours in food service, hotel-motel management, or diet therapy, 3 in nutrition nursing (2/74).

AF-0709-0002

RESCUE AND SURVIVAL TECHNICIAN—MEDICAL

Course Number: ALR9170.
Location: Medical Service School, Sheppard AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/67-12/68.
Objectives: To provide airman with the skills necessary to administer medical assistance to disaster victims.
Instruction: Medical terminology, anatomy and physiology, preventive therapy, drug usage, emergency procedures for shock, hemorrhage, wounds, and infection, poisonous agents, food and water deprivation, disaster medicine.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in paramedical medicine (disaster/emergency services, ambulance, or fire) on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in first aid on the basis of demonstrated skills or institutional evaluation (12/68).

AF-0709-0003

PHARMACY TECHNICIAN

Course Number: Version 1: 3AAR90570-1.
Version 2: AAR90570.
Location: Version 1: School of Health Care Sciences, Sheppard AFB, TX.
Version 2: Medical Service School, Gunter AFB, AL.
Length: Version 1: 10 weeks (300 hours).
Version 2: 16 weeks (584-594 hours).
Exhibit Dates: Version 1: 2/72-12/73.

AF-0709-0004

APPRENTICE AEROMEDICAL EVACUATION SPECIALIST
(APPRENTICE AEROMEDICAL EVACUATION)

Course Number: AB90131.
Location: School of Aviation Medicine, Gunter AFB, AL.
Length: 6-8 weeks (234-312 hours).
Exhibit Dates: 6/55-12/68.
Objectives: To train medical helpers in the basic techniques used in aeromedical evacuations.
Instruction: Lectures and practical exercises in aeronautical sciences, aviation medicine, clinical dentistry, pharmacy, preventive medicine, psychiatry, nursing, surgery, and anatomy and physiology.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in physician assisting on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 15 semester hours in pharmacy assisting, additional credit on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 3 semester hours in pharmaceutical chemistry, 2 in pharmacy laboratory, 1 in pharmaceutical mathematics (12/68).

AF-0709-0005

MEDICAL SERVICE TECHNICIAN—INDEPENDENT DUTY

Course Number: 3AZR90270.
Location: School of Health Care Sciences, Sheppard AFB, TX.
Length: 9 weeks (280 hours).
Exhibit Dates: 5/72-12/73.
Objectives: To train airman to perform as medical technicians in remote or isolated areas.
Instruction: Lectures and clinical application in management of common disorders; emergency procedures; medical observations and diagnoses; military public health; pharmacology; medical laboratory techniques.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in allied health, nursing, and additional credit in physician assisting on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, credit in physician assisting on the basis of institutional evaluation (2/74).
AF-0709-0006

ALLERGY AND IMMUNOLOGY SPECIALIST

Course Number: 5AZY91234.
Location: Wilford Hall USAF Hospital, Lackland AFB, TX.
Length: 2 weeks (60 hours).
Exhibit Dates: 8/69-12/73.

Objectives: To develop the skills and knowledge necessary for medical service specialists to be qualified in the allergy and immunology specialty.

Instruction: Preparation of patient for examination by physician; routine and special testing, including patch testing, interdermal testing, scratch testing, conjunctival testing; collection, interpretation, recording, and performance of pollen-counting technique; preparation of all-ergenic extracts; recognition of symptoms of shock, asthma, and systemic reactions; emergency treatment, immunization, and vaccination administration, including needle and gun techniques; supervision of the preparation and distribution of the allergy hypo-sensitization kits prepared by section.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in operating room techniques (2/74); in the upper-division baccalaureate category, 15 semester hours in operating room techniques (2/74); in the upper-division baccalaureate category, 3 semester hours in anatomy and physiology, and hygiene (12/68).

AF-0709-0007

PARAMEDIC—MEDICAL

Course Number: 3AZR92330.
Location: School of Health Care Sciences, Sheppard AFB, TX.
Length: 4 weeks (126 hours).
Exhibit Dates: 8/72-12/73.

Objectives: To provide paramedics with the knowledge and skills necessary to perform emergency medical procedures under adverse conditions.

Instruction: Medical management of emergency conditions; anatomy and physiology; fracture management and field medicine; injuries/disorders of the body systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in paramedical or emergency service technology, additional credit in paramedical areas on the basis of institutional evaluation (2/74).

AF-0709-0008

PHYSICIAN’S ASSISTANT

Course Number: 3ALR91730.
Location: School of Health Care Sciences, Sheppard AFB, TX.
Length: 46 weeks (1433 hours).
Exhibit Dates: 8/72-12/73.

Objectives: To train noncommissioned officers to be physician assistants.

Instruction: Lectures on examination, diagnosis, and treatment of diseases and injuries; physical diagnostic and laboratory procedures; laboratory, processes, and interpretation of medical findings; and referral procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 60 semester hours in physiology and biology, 15 in medical technology, 8 in anatomy and physiology, 8 in chemistry; and credit in psychology or sociology on the basis of institutional evaluation (2/74).

AF-0709-0009

1. MEDICAL MATERIAL SPECIALIST
2. MEDICAL MATERIAL SPECIALIST
3. APPRENTICE MEDICAL MATERIAL SPECIALIST

Location: Technical Training Center, Sheppard AFB, TX; Medical Service School, Gunter AFB, AL; Separate training in survival. Version 2: 8-12 weeks (330-360 hours).

Objectives: To train airmen to function as medical supply personnel.

Instruction: In the lower-division baccalaureate/associate degree category, 10 semester hours in business management, 1 in first aid (2/74); in the upper-division baccalaureate category, 15 semester hours in business management, 2 in first aid (2/74); in the upper-division baccalaureate category, 3 semester hours in supply management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 10 semester hours in business management, 2 in first aid (2/74); in the upper-division baccalaureate category, 3 semester hours in supply management (12/68).

AF-0709-0010

OPERATING ROOM SPECIALIST

Location: Version 1: Sheppard Technical Training Center, Sheppard AFB, TX; Medical Service School, Sheppard AFB, TX; Medical Service School, Gunter AFB, AL; Version 2: 3/25th Medical School, Lackland AFB, TX.
Length: Version 1: 11-12 weeks (335-398 hours); Version 2: 10-11 weeks (300-315 hours); Version 3: 12 weeks (436 hours).

Objectives: To train medical technicians to function in surgery as operating room technicians.

Instruction: Lectures and practical exercises in aseptic techniques; cleaning and preparation of packs and supplies; sterilization, care, and use of instruments; care and use of equipment; operative procedures; and care of patients.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in operating room techniques (2/74); in the upper-division baccalaureate category, 15 semester hours in operating room techniques (2/74); in the upper-division baccalaureate category, 3 semester hours in anatomy and physiology, and hygiene (12/68).

AF-0709-0011

AEROMEDICAL EVACUATION TECHNICIAN

Course Number: Version 1: 5AZY902X0. Version 2: 5Y902X0. Version 3: 3275th Technical Training Center, Gunter AFB, AL.
Location: Version 1: School of Aerospace Medicine, Brooks AFB, TX; Version 2: School of Aerospace Medicine, Brooks AFB, TX; School of Aviation Medicine, Gunter AFB, AL.

Objectives: To prepare airmen with skills and knowledge necessary to function as members of an aerospace evacuation team.


Credit Recommendation: In the lower-division baccalaureate/associate degree category, 28 semester hours in medical administration, on the basis of institutional evaluation (6/75).

AF-0709-0012

AEROMEDICAL TECHNICIAN

Location: Version 1: School of Aerospace Medicine, Brooks AFB, TX; Version 2: School of Aviation Medicine, Gunter AFB, AL.

Objectives: To train aeromedical specialists or aeromedical evacuation specialists to assume supervisory duties in a flight surgeon’s office or to perform air evacuation duties.

Instruction: Lectures and practical exercises in aeronautical sciences, aviation medicine, clinical dentistry, medicine and surgery, preventive medicine, nursing, and medical administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in physician assisting or anatomy on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in first aid and hygiene (12/68).

AF-0709-0013

AIR RESCUE SPECIALIST MEDICAL

Course Number: AB92130B.
the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in pharmaceutical mathematics, 2 in pharmaceutical chemistry, 1 in pharmacology (12/68).

AF-0709-0015

1. MEDICAL SERVICE SPECIALIST
2. MEDICAL SERVICE SPECIALIST
3. APPRENTICE MEDICAL SERVICE SPECIALIST


Location: Version 1: School of Health Care Sciences, Sheppard AFB, TX. Version 2: Medical Service School, Gunter AFB, AL. Medical Service School, Sheppard AFB, TX. Version 4: School of Aviation Medicine, Gunter AFB, AL.


Credit Recommendation: In the upper-division baccalaureate/associate degree category, 30 semester hours in nursing, additional credit on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in pharmacy, 3 in physiology and anatomy, 3 in nursing pharmacology, and additional credit in pharmacy on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in pharmaceutical mathematics, 2 in pharmaceutical chemistry, in pharmacology (12/68).

AF-0709-0016

1. PHYSIOLOGICAL TRAINING SPECIALIST
2. PHYSIOLOGICAL TRAINING SPECIALIST

APPRENTICE PHYSIOLOGICAL TRAINING SPECIALIST

Course Number: All Versions: ABR90237.

Location: Version 1: School of Aerospace Medicine, Brooks AFB, TX. Version 2: School of Aviation Medicine, Gunter AFB, AL.


Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in aviation physiology (2/74).
COURSE EXHIBITS

AF-0709-0020
MEDICAL RECORDS MANAGEMENT
Course Number: 3AZR90670-2.
Location: School of Health Care Sciences, Sheppard AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 8/72-12/73.
Objectives: To train enlisted personnel to manage medical records for hospital registrars offices.
Instruction: Lectures and practical exercises in the management of hospital records. Course includes use of medical terminology, anatomy and physiology; clarification of diseases and operations; collection of statistical data and development of presentations from collected data for use by professional staff; release and use of medical records in legal proceedings; and completion and consistency of medical records.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0709-0021
ORTHOPAEDIC APPLIANCE SPECIALIST
Course Number: ABY91332.
Location: Wilford Hall Hospital, Lackland AFB, TX.
Length: 50 weeks (1960 hours).
Exhibit Dates: 3/67-12/73.
Objectives: To train airmen as orthopedic appliance specialists.
Instruction: Lectures and practical exercises in the duties of orthopedic appliance specialists, including anatomy and physiology, arch supports, back braces, introduction to materials, application of plaster of Paris, lower extremity appliances, leather technique, miscellaneous appliances, shop equipment, shoe modification, and patient relationships.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and physiology, and credit in industrial arts on the basis of institutional evaluation (7/74).

AF-0709-0022
PHYSIOLOGICAL TRAINING SUPERVISOR
Course Number: Version 1: SAAV19170.
Location: All Versions: School of Aerospace Medicine, Brooks AFB, TX. Version 1: 2 School of Aviation Medicine, Gunter AFB, AL.

AF-0709-0023
MEDICAL SERVICE TECHNICIAN
Course Number: Version 1: 3AZR90270.
Location: Version 1: School of Health Care Sciences, Sheppard AFB, TX. Version 2: Medical Service School, Gunter AFB, AL. Version 3: School of Aviation Medicine, Gunter AFB, AL.
Objectives: To train enlisted personnel to supervise medical services in the upper-division baccalaureate/associate degree category, 3 semester hours in physiology, and credit in industrial arts on the basis of institutional evaluation (7/74).

AF-0709-0024
AEROSPACE MEDICINE PRIMARY
Course Number: Version 1: SABY90130.
Location: Version 1: School of Aerospace Medicine, Brooks AFB, TX. Version 2: School of Aerospace Medicine, Brooks AFB, TX. Version 3: School of Aerospace Medicine, Gunter AFB, AL. Version 4: School of Aviation Medicine, Gunter AFB, AL.
Objectives: To train enlisted personnel to the semi-skilled level in the aerospace medicine career specialty.
Instruction: Lectures and practical exercises in aerospace medicine, including anatomy and physiology, aerospace personnel care and treatment, aerospace physiology, military public health and occupational medicine, and disaster casualty control.
Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and physiology, 2 in first aid and hygiene, both on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 2 semester hours in anatomy and physiology, 2 in first aid and hygiene, both on the basis of institutional evaluation (7/74).
AF-0709-0025
COURSE EXHIBITS
AF-0709-0026
BASIC PARARESCUEMAN

Course Number: 92330.
Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 8 weeks (408 hours).

Objectives: To provide training in basic pararescue procedures.

Instruction: Training in recognition and treatment of a full range of medical emergency situations, including shock, chest injuries, ocular injuries, spinal and head injuries, conas, gastric ulcers and poisons, burns, fractures, childbirth, wounds, and infections; jump training to include care and preparation of equipment, day jumps, night jump, scuba jump, and tree jump; and mountain rescue and ground operations to include mountaineering, rope management, rappelling, and mountain navigation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in emergency medical technician (6/75).

AF-0709-0001
GLOBAL MEDICINE

Course Number: 5OZ9Y336.
Location: School of Aerospace Medicine, Brooks AFB, TX.
Length: 2 weeks (78 hours).

Objectives: To inform medical officers of significant disease problems of importance to military operations throughout the world.

Instruction: Lectures on certain diseases (particularly those not normally familiar to American physicians) and their epidemiology; disease management, treatment, and control measures; area studies; drug abuse; combat psychiatry; arthropod and rodent control; burn treatment; surgical care for missile wounds; nutrition and population; and preventive medicine.

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

AF-0709-0002
SENIOR HOSPITAL ADMINISTRATION

Course Number: Not available.
Location: School of Aviation Medicine, Gunter AFB, AL.
Length: 3 weeks (120 hours).

Objectives: To provide medical corps officers with knowledge of trends, ideas, and materials instrumental in functional more effectively as hospital administrators.

Instruction: Lectures and practical exercises in aeroomedical evacuation; organization and functioning of dental services; problems and solutions of medical administration; problems of medical surgery; preventive medical; managerial efficiency methods.

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

AF-0709-0003
REFRESHER COURSE IN HOSPITAL ADMINISTRATION

Course Number: Not available.
Location: School of Aviation Medicine, Gunter AFB, AL.
Length: 3 weeks (120 hours).

Objectives: To further the knowledge of participants in areas of hospital staff relationships, functions of hospital staff agencies, and current trends of medical services.

Instruction: Conferences, lectures, and practical exercises to include preventive medicine, aviation medicine, and forensic medicine, and to acquaint participants with solutions to recurrent problems in the operation of treatment facilities.

Credit Recommendation: No credit because of the professional nature of the course (1/74).

AF-0709-0004
MEDICAL ADMINISTRATIVE SPECIALIST

1. MEDICAL ADMINISTRATIVE SPECIALIST
2. MEDICAL ADMINISTRATIVE SPECIALIST
3. APPRENTICE MEDICAL ADMINISTRATIVE SPECIALIST

Location: Version 1: Sheppard Technical Training Center, Sheppard AFB, TX. Version 2: Medical Service School, Sheppard AFB, TX. Version 3: School of Aviation Medicine, Gunter AFB, AL.

Objectives: To train airmen in the fundamental duties of medical administrative specialists.

Instruction: Lectures and practical exercises in general administration; typing and formats; administrative control of patients and beds; and medical service fundamentals, including field casualty care and medical field exercises.

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

AF-0709-0005
BASIC COURSE IN MEDICAL SERVICE ADMINISTRATION

Course Number: OBR9001.
Location: School of Aviation Medicine, Gunter AFB, AL.
Length: 15 weeks (585-600 hours).

Objectives: To train newly commissioned officers in medical services administration, including the operation of medical care facilities and the supervision of direct support activities.

Instruction: Lectures and practical exercises in management, material and food service, housekeeping, administrative assistance to specialized medical services, and patient care administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in medical administration (2/74); in the upper-division baccalaureate category, 6 semester hours in medical administration (12/68).

AF-0709-0006
SURVIVAL TRAINING AND PERSONAL EQUIPMENT OFFICER

Course Number: OZY9100.
Location: School of Aerospace Medicine, Brooks AFB, TX.
Length: 3 weeks (120 hours).

Objectives: To train personal equipment officers in the basic principles of aerospace physiology and survival.

Instruction: Lectures in the basic principles of aerospace physiology and survival, including the human nervous, respiratory, and circulatory systems; hypoxia, hyperventilation, and hypoglycemia symptoms, effects, and treatment; nose, throat, and paranasal sinus, flight-induced problems and treatment; in-flight sensory illusions, decompression sickness, and noise hazards; aircraft emergency escape procedures and protective helmets, pressure suits, and oxygen equipment operation and maintenance.

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

AF-0709-0007
COMPRESSION CHAMBER TEAM TRAINING

Course Number: 5OZ9Y300-7.
Location: School of Aerospace Medicine, Brooks AFB, TX.
Length: 2 weeks (76-78 hours).

Objectives: To train personnel to operate and maintain compression chambers, to act as observers during chamber operation, and to participate in the treatment of patients by compression therapy.

Instruction: Lectures in hyperbaric physiology and clinical medicine; practical exercises in high-pressure chambers and unit administration.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in physical science (2/74); in the upper-division
AF-0802-0001

1. DISASTER PREPAREDNESS SPECIALIST (REMOTE DUTY)
   (DISASTER PREPAREDNESS SPECIALIST
   (ADDITIONAL DUTY)
   (DISASTER CONTROL SPECIALIST)
2. DISASTER CONTROL SPECIALIST
   (DISASTER PREPAREDNESS SPECIALIST)
3. DISASTER CONTROL INSTRUCTOR

Course Number: Version 1: 3AZR42430.
   Location: 3415th Technical School, Lowry AFB, CO.


Exhibit Dates: Version 1: 10/70-12/73.

Objectives: To train enlisted personnel to be disaster preparedness specialists and disaster control instructors.

Instruction: All Versions: Lectures and practical exercises in disaster preparedness and control operations, individual and collective protection, decontamination and monitoring procedures, and weapons effects.


AF-0802-0002

1. DISASTER PREPAREDNESS SPECIALIST
2. DISASTER CONTROL SPECIALIST
   (DISASTER PREPAREDNESS SPECIALIST)
3. DISASTER CONTROL SPECIALIST

   Location: 3415th Technical School, Lowry AFB, CO.


Objectives: To train enlisted personnel in aspects of disaster preparedness and control.

Instruction: All Versions: Lectures and practical exercises in disaster preparedness, effects of nuclear and nonnuclear weapons and dangerous materials, decontamination and monitoring, and individual and collective protection. Version 2: Includes instruction in the conducting of formal classes in disaster preparedness or control, and in the development of training aids for these classes. Version 3: Includes instruction in the conducting of formal classes in disaster preparedness, or control, and in the development of training aids for these classes.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, credit in the basis of institutional evaluation (5/74). Version 2: In the upper-division baccalaureate category, credit in the instructional methods and projective service on the basis of institutional evaluation (12/68). Version 3: In the upper-division baccalaureate category, credit in instructional methods, speech, and protective service on the basis of institutional evaluation (12/68).

AF-0802-0003

DISASTER PREPAREDNESS

Course Number: 30LR0511-1.
   Location: School of Applied Aerospace Sciences, Lowry AFB, CO.

Length: 9 weeks (270 hours).

Exhibit Dates: 8/73-12/73.

Objectives: To train enlisted personnel and civilians in all aspects of disaster preparedness.

Instruction: Lectures and practical exercises in disaster preparedness, including effects of nuclear and nonnuclear weapons, USAF technical order and supply systems, first aid for chemical agent casualties, NBC detection equipment and associated maintenance, monitoring procedures, decontamination techniques, and operational management of overall disaster preparedness activities and shelter management program.

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

AF-0802-0004

PASSIVE DEFENSE INSTRUCTOR

Course Number: XX46132, AL46172.
   Location: 3415th Technical School, Lowry AFB, CO.

Length: 6-7 weeks (180-210 hours).

Exhibit Dates: 4/55-12/68.

Objectives: To train airmen in defense measures against possible chemical, biological, and radiological warfare.

Instruction: Lectures and practical exercises in defense measures against possible chemical, biological, and radiological warfare, including detection and classification of chemical agents, first aid, outline of basic nuclear physics, radioactive emissions, radiation effects, dosage, monitoring, and biological defense.

Credit Recommendation: In the upper-division baccalaureate category, credit in instructional methods and protective service occupations on the basis of institutional evaluation (12/68).

AF-0802-0005

MUNITIONS MAINTENANCE SPECIALIST

Course Number: 3AZR46150.
   Location: 3415th Technical School, Lowry AFB, CO.

Length: 8 weeks (240 hours).

Exhibit Dates: 10/68-12/73.

Objectives: To train personnel to perform as munitions maintenance specialists.

Instruction: Lectures and practical exercises in munitions maintenance, including aerospace munitions administrative functions, handling and transportation of munitions, munitions supply, storage, maintenance, assembly, and inspection of munitions; munitions maintenance specialist performance, and performance of all munitions maintenance duties in an operational environment.

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

AF-0802-0006

CONVENTIONAL MUNITIONS QUALITY ASSURANCE

Course Number: 3AZR46170.
   Location: School of Applied Aerospace Sciences, Lowry AFB, CO.

Length: 2 weeks (60-72 hours).

Exhibit Dates: 7/71-12/73.

Objectives: To train enlisted personnel to supervise conventional munitions quality assurance.

Instruction: Lectures and practical exercises in conventional munitions quality assurance. Course includes reporting techniques, characteristics and uses of nonnuclear munitions, organizational responsibilities, pertinent publications, reporting and transportation of nonnuclear munitions, inspection and test procedures, explosive area survey procedures, planning procedures for conventional munitions, management and tools, and a quality assurance exercise.

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

AF-0802-0007

MISSILE SAFETY TECHNICIAN

Course Number: ATS24170-2.
   Location: 3415th Technical School, Chanute AFB, IL.

Length: 15 weeks (450 hours).

Exhibit Dates: 6/62-12/68.

Objectives: To train enlisted personnel to perform missile safety surveillance duties at ballistic missile sites.

Instruction: Lectures and practical exercises in missile safety surveillance at ballistic missile sites, including basic mathematics, physics, fluid mechanics, electricity, chemistry, construction practices applicable to construction and operation of missile facilities, propulsion systems principles, industrial safety, industrial hygiene and human factors, and safety management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in industrial safety management (6/74); in the upper-division baccalaureate category, 3 semester hours in industrial safety management (12/68).
AF-0802-0008
BALLISTIC MISSILE SAFETY

Course Number: AZR24130B
Location: 3345th Technical School, Chanute AFB, IL
Length: 4 weeks (120 hours).
Exhibit Dates: 2/63-12/68.

Objectives: To train enlisted personnel as ballistic missile safety surveillance technicians.

Instruction: Lectures and practical exercises in ballistic missile safety surveillance. Topics include: missile terminology, missile structures, construction features, safety associated with missile maintenance and aerospace ground equipment, monitoring of hazardous missile operations, and nuclear safety familiarization.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in safety management (6/74).

AF-0802-0009
AIR LAUNCHED MISSILE SAFETY OFFICER

Course Number: 3OZR1945: OZR1945
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (78-90 hours).

Objectives: To train officers as air launch missile safety officers.

Instruction: Lectures and practical exercises in missile safety, including fundamentals: environmental, explosives, and nuclear safety; aircraft and missile loading hazards; aircraft and missile accident investigation, environmental hazards; missile components, effects of chemical, biological, and nuclear weapons; protection, exposure control, and decontamination; and disaster control operations to include weapons accidents, domestic emergencies, and war operations.

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

AF-0802-0010
AIR LAUNCHED MISSILE SAFETY OFFICER/TECHNICIAN

Course Number: 3OZR1945-4
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (102 hours).
Exhibit Dates: 1/71-12/73.

Objective: To train personnel as missile safety officers or technicians in air-launched missile units.

Instruction: Lectures and practical exercises in missile safety, including operational base safety survey; air-launched missiles accident prevention program and management; human factors; missile mishap reports; air-launched missile systems and environmental hazards; missile components, performance, and capabilities, and hazards associated with ground support equipment, transportation, storage, and electrical and radiation safety.

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

AF-0802-0011
AIR LAUNCHED MISSILE SAFETY TECHNICIAN

Course Number: AAR24170-1
Location: 3415th Technical School, Lowry AFB, CO.
Length: 1-3 weeks (90 hours).
Exhibit Dates: 7/66-12/68.

Objectives: To train enlisted personnel to be air launch missile safety technicians.

Instruction: Lectures and practical exercises in missile safety, including human engineering, first aid, missile explosive hazards, aircraft loading hazards, safety management and supervision, physiology, missile fundamentals, environmental safety, and aircraft and missile accident prevention.

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

AF-0802-0012
AIR LAUNCHED DEFENSE MISSILE SAFETY OFFICER

Course Number: 3OZR1945-1
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 10/68-12/73.

Objectives: To train officers to be missile safety officers.

Instruction: Lectures and practical exercises in missile safety, including human factors, introduction to missile systems, environmental and nuclear hazards, missile accident prevention, human engineering, and equipment and training aids.

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

AF-0802-0013
AIR LAUNCHED STRATEGIC MISSILE SAFETY OFFICER

Course Number: 3OZR1945-2
Location: 3415th Technical School, Lowry AFB, CO.
Length: 2-3 weeks (90 hours).
Exhibit Dates: 10/68-12/73.

Objectives: To train officers as missile safety officers.

Instruction: Lectures and practical exercises in air-launched missile safety, including missile explosive hazards, human engineering, fire protection, equipment and training aids, accident prevention, missile accident reporting and investigation, and environmental hazards.

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

AF-0802-0014
AIR LAUNCHED TACTICAL MISSILE SAFETY OFFICER

Course Number: 3OZR1945-3
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 10/68-12/73.

Objectives: To train officers as tactical missile safety officers.

Instruction: Lectures and practical exercises in air-launched tactical missile safety, including environmental hazards, human engineering, missile explosive hazards, and later safety.

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

AF-0802-0015
PETROLEUM TANK CLEANING SUPERVISOR

Course Number: AXS54670W-1
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 8/61-12/68.

Objectives: To train enlisted personnel to supervise petroleum tank cleaning operations.

Instruction: Lectures and practical exercises in the supervision of petroleum tank cleaning operations. Course includes securing clearance prior to cleaning tanks, tank construction and explosion safety, cleaning techniques, and safety procedures.

Credit Recommendation: In the lower-division baccalaureate category, 2 semester hours in industrial safety (7/74).

AF-0802-0016
1. GENERAL SAFETY SPECIALIST
2. GENERAL SAFETY SPECIALIST

(GROUND SAFETY SPECIALIST)

Course Number: Version 1: 3ALR24130-1
Version 2: 3ALR24130-2
Location: 3415th Technical School, Chanute AFB, IL.
Length: Version 1: 7 weeks (228 hours).
Version 2: 8-10 weeks (258-300 hours).
Exhibit Dates: Version 1: 5/68-12/73.

Objectives: To train Air Force personnel to conduct installation safety programs.

Instruction: Course covers safety education, communication, and human factors; high pressure and explosive safety; industrial hygiene and safety; traffic and off-duty safety; and accident investigation and reporting.


AF-0802-0017
PASSIVE DEFENSE OFFICER (DISASTER PREPAREDNESS OFFICER) (DISASTER CONTROL OFFICER)

Course Number: 3OLR0511; OZR0105-2
Location: 3415th Technical School, Lowry AFB, CO.
Length: 4-6 weeks (120-180 hours).
Exhibit Dates: 1/54-12/73.

Objectives: To train commissioned officers and civilians to perform duties as disaster control officers.

Instruction: Lectures and practical exercises in disaster control fundamentals: effects of chemical, biological, and nuclear weapons; protection, exposure control, and decontamination equipment; and disaster control operations to include weapons accidents, domestic emergencies, and war operations.

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

AF-0802-0018
SURVIVAL INSTRUCTOR TRAINING

Course Number: Version 1: S-VR1-A
Version 2: 140001.

Objectives: To train instructors in survival techniques and equipment, including rescue equipment, water survival, and survival in various environments.

Instruction: Lectures and practical exercises in survival techniques and equipment. Course includes survival equipment, rescue techniques, and survival in various environments.

Credit Recommendation: No credit because of the limited specialized nature of the course (7/74).
COURSE EXHIBITS


Objectives: To qualify selected airmen as instructors in the techniques and procedures of global survival and as rescue and survival specialists.

Instruction: Lectures and practical exercises in the principles and techniques of survival; anatomy, physiology, first aid; global geography, orientation, evasion, and escape; and survival teaching methods.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 2 semester hours in instructional methods, 3 in survival techniques including woodcraft and camp training, winter survival, and recreation (7/74). Version 2: In the upper-division baccalaureate category, 2 semester hours in instructional methods, 3 in survival techniques including woodcraft and camp training, winter survival and recreation (7/54).

AF-0802-0019

SAFETY SUPERVISOR


Length: 3 weeks (90 hours).


Objectives: To provide personnel with knowledge and skills sufficient to become safety supervisors.

Instruction: Lectures and practical exercises in accident prevention, safety reference materials, human factors in accidents, safety surveys, and creating and maintaining interest in safety.

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

AF-0802-0020

1. SURVIVAL TRAINING AND PROTECTIVE EQUIPMENT OFFICER

2. SURVIVAL TRAINING AND PROTECTIVE EQUIPMENT OFFICER (PERSONAL EQUIPMENT AND SURVIVAL TRAINING)

Sustainable Training and Equipment Officer (7/73).

Course Numbers: Version 1: 3OZR1453J; 3OZR1545F; 3OZR2153S. Version 2: 3OZR1515A; OZR1514A; BDS01420-1; SS10420.

Location: 3345th Technical School, Chanute AFB, IL.


Objectives: To train aircraft self-defense techniques, basic judo techniques, and air police and air crew self-defense techniques.

Instruction: Lectures and practical exercises in the duties of instructors of judo and hand-to-hand combat, including learning principles, evaluation, audio-visual aids, lecture and demonstration procedures, basic judo techniques, and air police and air crew self-defense techniques.

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

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

AF-0802-0021

AIR FORCE WEAPONS ACCIDENT PREVENTION AND MANAGEMENT

Course Number: 3QZFR4625X.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 4 weeks (102 hours).

Exhibit Dates: 7/72-12/73.

Objectives: To train personnel as safety officers.

Instruction: Lectures and practical exercises in accident prevention programs and management; human factors in accident prevention, development and coordination of standard operating procedures; missiles, explosives and nuclear safety, mishap investigation and safety inspection.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0802-0022

ARCTIC SURVIVAL TRAINING

Course Number: S-V87-A.

Location: Air Training Command, Eielson AFB, AK.

Length: 9 weeks (63 hours).

Exhibit Dates: 7/67-Present.

Objectives: To train aircraft survival and rescue techniques under arctic conditions.

Instruction: Lectures and practical exercises in arctic survival procedures including arctic clothing, cold environment hazards, shelter, food and water procurement, recovery and vector techniques, and arctic field craft techniques.

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

AF-0802-0023

NUCLEAR EMERGENCY TEAM/NUCLEAR EMERGENCY TEAM OPERATIONS (NET/NETOPS)

Course Number: 3AZR24250-2.

Location: Inter Service Nuclear Weapons School, Kirtland AFB, NM.

Length: 3 weeks (93 hours).

Exhibit Dates: 4/71-Present.

Objectives: To train personnel to serve as members of nuclear emergency teams.

Instruction: Lectures and practical exercises in radiation hazards and effects, basic nuclear physics and mathematics, nuclear devices, explosive hazards, nuclear reactors, biological effects, nuclear weapon firefighting, radiation detection, dosimetry, survey instruments, monitoring equipment, and decontamination.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0802-0024

EXPLOSIVES SAFETY OFFICER/SPECIALIST (EXPLOSIVES SAFETY OFFICER)

Course Number: 3QZFR1965-1.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 4 weeks (108 hours).

Exhibit Dates: 1/67-12/68.

Objectives: To train explosives safety officers.

Instruction: Lectures and practical exercises in identification and use of aerospace munitions; explosive safety standards and requirements; disposal of aerospace munitions; investigating and reporting accidents and incidents; safety education programs; safety in installation planning; and safety training and programs.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0803-0001

COMBATMEASURES INSTRUCTOR TRAINING

Course Number: 140004.

Location: Air Training Command, Fairchild AFB, WA.

Length: 5 weeks (160 hours).

Exhibit Dates: 11/67-12/68.

Objectives: To train officers and airmen as instructors of judo and hand-to-hand combat.

Instruction: Lectures and practical exercises in the duties of instructors of judo and hand-to-hand combat, including learning principles, evaluation, audio-visual aids, lecture and demonstration procedures, basic judo techniques, and air police and air crew self-defense techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in instructional methods in physical education (7/74); in the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-0803-0002

BASIC PARARESCUE TRAINING

Course Number: 923X0-2; 923X0-3.

Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.

Length: 8 weeks (315 hours).

Exhibit Dates: 7/71-Present.

Objectives: To qualify personnel in basic parachuting.

Instruction: Lectures and practical exercises in equipment familiarization, physical training, swimming, elementary medical training, mountain training, familiarization jumps, and day and night jumps with equipment.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-0803-0003

SURVIVAL TRAINING (SURVIVAL TRAINING (SEA))

(ADVANCED SURVIVAL TRAINING)

(USAF COMBAT SURVIVAL TRAINING)

Course Number: S-V80-A; S-V85-A; 140000.

Location: Air Training Command, Fairchild AFB, WA; Air Training Command, Stead AFB, NV.

Length: 2-4 weeks (94-216 hours).

Exhibit Dates: 2/55-Present.

Objectives: To prepare selected flying personnel in the principles, procedures, and equipment necessary to survive in any climate.
Course Number: 3AZB90670. Location: Medical Service School, Sheppard AFB, TX. Length: 3 weeks (90 hours). Exhibit Dates: 8/68-12/73. Objectives: To train enlisted personnel in the supervision of housekeeping personnel in medical treatment facilities.

Instruction: Lectures in organization and management of housekeeping services, maintenance, sanitation, and safety.

Credit: 2 semester hours in industrial hygiene (2/74); in the upper-division baccalaureate category, 2 semester hours in industrial hygiene (12/73); in the upper-division baccalaureate category, 2 semester hours in industrial hygiene (12/74).

AF-1104-0001
STAFF AIRCRAFT PERFORMANCE ENGINEER


Instruction: Lectures and practical exercises in aircraft performance engineering, including applied mathematics (algebra, trigonometric functions, quadratic and linear equations, logarithm, limits, geometry, and basic calculus), aerodynamics and related physical properties, turbojet engines and principles of jet propulsion, engine controls and instruments, flight limits, aircraft performance characteristics (take-off, climb, range, endurance, descent, and approach and landing), fueling, and mission planning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 3 in trigonometry, 3 in calculus, 3 in aerodynamics, 3 in power plants (7/74); in the upper-division baccalaureate category, credit in aerodynamics theory, calculus, and fluid dynamics on the basis of institutional evaluation (12/68).

AF-1107-0001
STAFF AIRCRAFT PERFORMANCE OFFICER


Instruction: Lectures and practical exercises on the functions of staff aircraft performance officers, including algebraic fundamentals; logarithms and trigonometry; differential and integral calculus; aerodynamic fundamentals; mission planning; airplane performance; turbojet engines and flight limits; take-off, approach, and landing; climb and descent; and range and endurance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aerodynamics, 12 in mathematics (6/74); in the upper-division baccalaureate category, credit in aerodynamics theory, calculus, and fluid dynamics on the basis of institutional evaluation (12/68).

AF-1113-0001
GROUND C-E-M MAINTENANCE ANALYSIS TECHNICIAN


Instruction: Lectures and practical exercises in ground C-E-M maintenance analysis, including analysis, interpretation; and summary of data from data collection systems, monitoring and direction of analysis activities, identification of areas for development; charts, tables, graphs, and related visual media for presentation of analysis results, summary preparation, presentation of results, determination of effectiveness and efficiency, and analysis of status and configuration management system reports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in statistical analysis (7/74); in the upper-division baccalaureate category, 2 semester hours in statistical analysis (12/68).

AF-1115-0001
1. MAINTENANCE ANALYSIS SPECIALIST
2. MAINTENANCE ANALYSIS SPECIALIST (AIRCRAFT AND MISSILE MAINTENANCE ANALYSIS SPECIALIST)


Instruction: Lectures and practical demonstrations in basic statistical analysis and maintenance analysis, including frequency distribution, dispersion, points and curves, and landing charts, maintenance documentation, data systems, management concepts, graphic presentations, and data processing for reporting.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in introductory statistics (2/74); in the upper-division baccalaureate category, 2 semester hours in introductory statistics (2/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in introductory statistics (2/74); in the upper-division baccalaureate category, 4 semester hours in statistical analysis (12/68).

AF-1115-0003
RELIABILITY/MAINTAINABILITY

Course Number: 3OZ2895U. Location: 3345th Technical School, Chanute AFB, IL. Length: 10 weeks (90 hours). Exhibit Dates: 3/68-12/73. Objectives: To train enlisted personnel in developing, monitoring, and contracting reliability and maintainability of systems and subsystems from drawing board to operation.

Instruction: Lectures in basic statistics, probability functions, non-parametric estimation, mathematical estimation of parameters, stress/strength analysis, and reliability maintainability management.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in quality control or applied statistics (2/74).

AF-1115-0004
1. ADVANCED QUANTITATIVE METHODS IN COST ANALYSIS
2. CHICAGO ADVANCED QUANTITATIVE METHODS IN COST ANALYSIS
3. QUANTITATIVE METHODS IN COST ANALYSIS

and statistics and some experience in cost analysis.

**Instruction:** Lectures in advanced non-linear and multivariate regression analysis, including quadratic equations, logarithms, matrix inversions, linear and curvilinear regression, and net scatter diagrams.

**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in advanced quantitative methods (2/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in advanced quantitative methods (2/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in advanced quantitative methods (2/74); in the upper-division baccalaureate category, 3 semester hours in business statistics or economic statistics (12/68).

**AF-1115-0005**

**BASIC QUANTITATIVE METHODS IN COST ANALYSIS**

**Course Number:** 188.

**Location:** School of Systems and Logistics, Wright-Patterson AFB, OH.

**Length:** 3 weeks (105 hours).

**Exhibit Dates:** 1/72-Present.

**Objectives:** To provide officers with a basic understanding of the quantitative tools and techniques employed in cost estimating and analysis.

**Instruction:** Lectures and applications in algebraic operations, elementary statistical methods, probability, curve and sample theory, interval estimates, linear equations and regression, and variance analysis.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in basic statistics (2/74); in the upper-division baccalaureate category, 3 semester hours in business statistics or economic statistics (12/68).

**AF-1120-0006**

**1. DATA SERVICES SPECIALIST**

2. **STATISTICAL SPECIALIST**

3. **STATISTICAL SPECIALIST**


**Location:** Version 1: 375th Technical School, Sheppard AFB, TX. Version 2: 375th Technical School, Sheppard AFB, TX. Version 3: 3415th Technical School, Lowry AFB, CO.


**Objectives:** To train personnel in the functions and techniques of data services. "Basic" practices and technical exercises in administrative procedures, Air Force reports management systems, functional area concepts and reports, punched card accounting, machine and data processing familiarization, and data services case problems.

**Credit Recommendation:** In the upper-division baccalaureate category, 3 semester hours in statistical methods (12/68).

**AF-1115-0007**

**MANAGEMENT ENGINEERING OFFICER**

**Course Number:** Version 1: 3OBJ7461. Version 2: OBR7431.

**Location:** 3415th Technical School, Lowry AFB, CO.

**Length:** 10 weeks (300 hours).

**Exhibit Dates:** Version 1: 5/68-12/73. Version 2: 5/68-12/73.

**Objectives:** To train officers as management engineers.

**Instruction:** Lectures and practical exercises in the development and application of management methods. Course includes methods, techniques, and procedures used in attaining objectives of the management engineering program; operations, analysis, linear programming, engineering theory, performance-rating, time study, work sampling, operational audit, and "allowance" computation; operational line, linear, and curvilinear correlation and regression analysis; and manpower allocation systems.

**Credit Recommendation:** Version 1: In the upper-division baccalaureate category, 3 semester hours in statistics, 3 in quantitative methods (8/74). Version 2: In the upper-division baccalaureate category, 3 semester hours in statistics, 3 in business organization and management (12/68).

**AF-1205-0001**

**BANDSMAN SUPERVISOR**

**Course Number:** AAX76170.

**Location:** Bandsman School, Boling AFB, Washington, DC.

**Length:** 47-52 weeks (936 hours).

**Exhibit Dates:** 6/58-12/64.

**Objectives:** To provide airmen with advanced training in band conducting.

**Instruction:** Practical exercises in advanced conducting; major and secondary instrumentation; music theory; solfeggio; arranging and analysis; glee club, concert, marching, and dance band performance and conducting; administration and management; and leadership.

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

**AF-1303-0001**

**SPACE SYSTEMS ANALYST**

**Course Number:** 3OBJ2021.

**Location:** 3380th Technical School, Keesler AFB, MS.

**Length:** 7-8 weeks (216-246 hours).

**Exhibit Dates:** 5/68-12/73.

**Objectives:** To provide commissioned officers with training in satellite motion, orbital analysis, data acquisition, and basic tracking concepts.

**Instruction:** Lectures and practical exercises in the analysis of satellite motion and orbits, and in data acquisition and basic tracking concepts. Course includes radar theory and analysis of satellite motion and orbital determination and upper-level college mathematics through numerical analysis and differential equations.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 3 in mathematics (6/74); in the upper-division baccalaureate category, 3 semester hours in applied physics, 2 in mathematical analysis (6/74).

**AF-1304-0001**

**WEATHER OBSERVER**

**Course Number:** 3ABR25231; AB25231; ABZ25230.

**Location:** School of Applied Aerospace Sciences, Chanute AFB, IL: 3345th Technical School, Chanute AFB, IL.

**Length:** 15-22 weeks (426-570 hours).

**Exhibit Dates:** 4/55-12/73.

**Objectives:** To train airmen to perform as weather observers.

**Instruction:** Lectures and practical exercises in weather observation, including introduction to meteorology; observing, recording, and encoding weather elements; plotting weather maps, charts, and diagrams; care and operation of weather instruments; electronic weather equipment; weather radar; data evaluation; noninstrumental observation; and operation of standard weather communications equipment.

**Credit Recommendation:** In the upper-division baccalaureate/associate degree category, 6 semester hours in meteorology or general science (5/74); in the upper-division baccalaureate category, 3 semester hours in meteorology (12/68).

**AF-1304-0002**

**WEATHER FORECASTER**

**WEATHER FORECASTER TECHNICIAN**

**Course Number:** 3AR425330; ALR25330; ALZ25330.

**Location:** 3345th Technical School, Chanute AFB, IL.

**Length:** 32-44 weeks (960-1320 hours).

**Exhibit Dates:** 3/56-12/73.

**Objectives:** To train weather observers and airborne weather operators in meteorological theory and forecasting procedures.

**Instruction:** Lectures and practical exercises in meteorological theory and forecasting procedures, including climatology, mathematics, and physics, weather data analysis, synoptic meteorology, operational weather, advanced weather analysis, and weather equipment and facilities.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 6 semester hours in algebra and trigonometry, 3 in physics, 3 in speech, 9 in meteorology or general science (5/74); in the upper-division baccalaureate category, 17 semester hours in meteorology (12/68).

**AF-1304-0003**

**GROUND WEATHER OBSERVING PROCEDURES**

**Course Number:** XX25251-1A.

**Location:** 3345th Technical School, Chanute AFB, IL.

**Length:** 8 weeks (240 hours).

**Exhibit Dates:** 2/58-12/68.

**Objectives:** To train personnel in observing, recording, and encoding weather phenomena and in plotting weather maps and charts.

**Instruction:** Lectures and practical exercises in ground weather observation.
RAWINSONDE OPERATIONS AND OBSERVATIONS

RAWINSONDE PROCEDURES

Course Number: XX25251-1B
Location: 3345th Technical School, Chanute AFB, IL
Length: 4 weeks (120 hours)

Exhibit Dates: 2/58-12/68

Objectives: To train qualified weather observers, weather forecasters, or operator technicians in rawinsonde procedures.

Instruction: Lectures and practical exercises in rawinsonde procedures, including design, construction, and functions of rawinsonde equipment; operation and maintenance of rawinsonde equipment; rawinsonde preflight procedures; hydrogen generation, recorder, and record evaluation; selection of significant levels on the recorder record; radiosonde charts; coding rawinsonde data; winds aloft computation and evaluation of complete rawinsonde observations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology or general science (5/74); in the upper-division baccalaureate category, 2 semester hours in meteorology (12/68).

AF-1304-0004

RAWINSONDE OPERATION

Course Number: 3AZR25251-1
Location: 3345th Technical School, Chanute AFB, IL
Length: 12 weeks (360 hours)

Exhibit Dates: 1/60-12/73

Objectives: To train weather observers in rawinsonde operation and observations.

Instruction: Lectures and practical exercises in rawinsonde operation and observations, including rawinsonde equipment, recorder, and record evaluation, radiosonde charts and codes, winds aloft observations and calculations, and upper-air observation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology (5/74); in the upper-division baccalaureate category, 3 semester hours in meteorology (12/68).

AF-1304-0005

STAFF METEOROLOGIST

Course Number: 3OZR2516-1
Location: School of Applied Aerospace Sciences, Chanute AFB, IL
Length: 5 weeks (150 hours)

Exhibit Dates: 8/72-12/73

Objectives: To train officers who have technical skills and more than one year of field experience to perform as commanders and staff meteorologists at air weather service detachments.

Instruction: Lectures and practical exercises in the duties of commanders and staff meteorologists, including management and budget; weather forecasting, administration, collection of environmental data, information, use of weather central forecasting products, armed forces communications, use of data from weather reconnaissance and satellite programs, and environmental research and development.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in management, 3 in meteorology (5/74); in the upper-division baccalaureate category, credit in management or meteorology on the basis of institutional evaluation (5/74).

AF-1304-0007

WEATHER SUPERINTENDENT

Course Number: All Versions
Location: 3345th Technical School, Chanute AFB, IL

Duration: Version 1: 10 weeks (300 hours); Version 2: 32-37 weeks (960-1110 hours)


Objectives: To train Air Force weather forecasters and meteorological technicians to supervise the operation and technical activities of a weather station and to prepare and issue weather forecasts.

Instruction: All Versions: Lectures and practical exercises in meteorology and management, or in meteorology, management, mathematics, and physics necessary for weather station operation and forecasting, including radar familiarization, general meteorology, leadership, and weather variables analysis. Version 2: Includes mathematics, algebra review, trigonometry, analytical geometry and advanced calculus, measurement, weather chart analysis, oceanography, statistics, physical meteorology, and physics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in meteorology, 3 in mathematics, 3 in meteorology, 3 in management (5/74); in the upper-division baccalaureate category, credit in advanced weather forecasting techniques on the basis of institutional evaluation (12/68).

AF-1304-0010

TROPICAL WEATHER ANALYSIS AND FORECASTING

(A MODERN WEATHER TECHNIQUES)

Course Number: 3OZR2524-2
Location: 3345th Technical School, Chanute AFB, IL
Length: 6-7 weeks (150-210 hours)

Exhibit Dates: 1/54-12/73

Objectives: To train Air Force weather forecasters in tropical weather analysis and forecasting.

Instruction: Lectures and practical exercises in tropical weather analysis and forecasting, including identification and analysis of tropical weather directly from the wind field, development of tropical forecasting techniques, applicable streamline-isotach techniques of direct kinematic analysis, application of theoretical, climatological and empirical analysis methods; basic principles of tropical weather analysis, climatology of the tropics; characteristics of fluid motion; and satellite data interpretation. Course prior to 1967 was not limited to tropical meteorology.

AF-1304-0008

WEATHER OBSERVER TECHNICIAN

Course Number: 3AAR25271; AA25271
Location: 3345th Technical School, Chanute AFB, IL
Length: 16-25 weeks (480-750 hours)
Exhibit Dates: 4/58-12/73

Objectives: To provide weather observers with advanced training in weather observation.

Instruction: Lectures and practical exercises in elementary general meteorology and map analysis, operation and supervision of surface observing activities, electronic observations and equipment, officer, personnel, and air observations, management for the observer, technician, communications skills, data dissemination, and chart preparation, supply and maintenance of forms and administrative procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic mathematics, 3 in meteorology, 1 in measurement laboratory, 6 in business organization and management (5/74); in the upper-division baccalaureate category, 3 semester hours in meteorology, 3 in business organization and management (12/68).

AF-1304-0009

ADVANCED METEOROLOGICAL APPLICATIONS

Course Number: 3OZR2524-4
Location: School of Applied Aerospace Sciences, Chanute AFB, IL
Length: 4 weeks (120 hours)

Exhibit Dates: 11/72-12/73

Objectives: To train personnel to perform as detachment forecasters.

Instruction: Lectures and practical exercises in advanced meteorological applications, including development of forecast methods, use of computer weather products, findings from environmental research projects, special forecast methods for allied agencies, the latest developments in highly specialized meteorological programs, meteorological physics, air-sea interaction, environmental meteorology, and severe-weather applications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in meteorology or general science (5/74); in the upper-division baccalaureate category, 6 semester hours in meteorology or general science (5/74).

AF-1304-0016
AF-1304-0011

SPACE OBJECT IDENTIFICATION ANALYST

Course Number: 30Z2R2025B

Location: Version 1: School of Applied Aerospace Sciences, Keesler AFB, MS, Version 2: 3380th Technical School, Keesler AFB, MS.

Length: Version 1: 5 weeks (150-160 hours), Version 2: 7 weeks (210 hours).

Objectives: To train officers to perform space object identification analyses.

Instruction: All Versions: Lectures and practical exercises in the duties of space object identification analysts, including radar target analysis, radar sensor systems, mathematics, review, radar cross-section patterns, target processing, orbital mechanics, various targets, orientation determination, stable body techniques, and real body analysis and special techniques.

Version 2: Includes vector analysis, basic electromagnetic field and wave theory, methods of graphical solutions, and complex body/motion analysis.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in physics (5/74); in the upper-division baccalaureate category, credit in physics on the basis of institutional evaluation (12/68).

AF-1306-0012

AN/MMO-2 METEOROLOGICAL STATION MANUAI

Course Number: 3ABR67230.

Location: 3345th Technical School, Chanute AFB, IL.

Length: 5 weeks (132 hours).

Exhibit Dates: 11/71-12/73.

Objectives: To train enlisted personnel to install, operate, adjust, troubleshoot, repair, and perform preventive maintenance on the AN/MMO-2 manual meteorological station.

Instruction: Lectures and practical exercises in the operation, repair, and maintenance of the AN/MMO-2 manual meteorological station; including the AN/TMQ-15 wind-measuring set, the AN/TMQ-14 cloud-height set, and the AN/TMQ-20 temperature-dew point measuring set.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in meteorology (8/74).

AF-1401-0001

ACCOUNTING AND FINANCE SPECIALIST

1. ACCOUNTING AND FINANCE SPECIALIST
2. ACCOUNTING AND FINANCE SPECIALIST
3. ACCOUNTING AND FINANCE SPECIALIST
4. ACCOUNTING AND FINANCE SPECIALIST


Location: 3750th Technical School, Sheppard AFB, TX.


Objectives: To train airmen as accounting and finance specialists.


Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary accounting (12/68).

AF-1401-0004

ACCOUNTANT

Course Number: SS6884.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 3 weeks (90 hours).

Exhibit Dates: 4/58-12/68.

Objectives: To provide officers with a basic knowledge of government accounting procedures.

Instruction: Lectures in basic government accounting procedures, including general and special accounting, procedures, expense accounting, inventory accounting, appropriation accounting, stock fund and nonappropriated funds accounting, and a review of commercial accounting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in government accounting, accounting (2/74); in the upper-division baccalaureate category, 3 semester hours in government accounting (12/68).

AF-1401-0005

GENERAL ACCOUNTING SPECIALIST

Course Number: 3ABR67131.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 11-12 weeks (330 hours).

Exhibit Dates: 1/62-12/73.

Objectives: To provide enlisted personnel with a working knowledge of elementary accounting.

Instruction: Lectures in the basic principles of accounting, including payment vouchers and financial reports, appropriations and funds systems, materiel and commercial services systems, and the stock fund and general ledger systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in elementary accounting (2/74); in the upper-division baccalaureate category, 3 semester hours in elementary accounting (12/68).

AF-1401-0006

DISBURSEMENT ACCOUNTING SPECIALIST

Course Number: 3ABR67133.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 11 weeks (300-330 hours).

Exhibit Dates: 11/62-12/73.

Objectives: To provide enlisted personnel with a basic knowledge of business finance and accounting fundamentals, with emphasis on financial disbursement procedures involving personnel, material, and commercial services.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business finance (2/74); in the upper-division baccalaureate category, 3 semester hours in business finance and accounting (12/68).

AF-1401-0007

ACCOUNTING TECHNICIAN

Course Number: AA67230.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 15 weeks (450 hours).

Objectives: To train enlisted personnel in elementary accounting procedures.

Instruction: Lectures and practical exercises in business finance and accounting fundamentals, with emphasis on financial disbursement procedures involving personnel, material, and commercial services.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in elementary accounting (2/74); in the upper-division baccalaureate category, 3 semester hours in business finance and accounting (12/68).
the upper-division baccalaureate category, 3 semester hours in general accounting, 2 in cost accounting (12/68).

AF-1401-0010
ACCOUNTING AND FINANCE SUPERVISOR
Course Number: AAR67170.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 19 weeks (570 hours).
Exhibit Dates: 11/59-12/68.
Objectives: To provide finance and accounting supervisors with advanced training in accounting and finance.
Instruction: Lectures on accounting and finance activities, appropriation accounting, financial inventory accounting, expense and general ledger systems, stock funds, and civilian and military pay procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in accounting principles (2/74); in the upper-division baccalaureate category, 3 semester hours in cost accounting (2/74).

AF-1401-0011
MEDICAL RESOURCE MANAGEMENT
Course Number: 3AZR67170.
Location: School of Health Care Sciences, Sheppard AFB, TX.
Length: 2 weeks (60 hours).
Exhibit Dates: 8/72-12/73.
Objectives: To train noncommissioned officers and civilian personnel working in the medical resource management office in the operation of medical service accounting, expense accounting, and manpower programs and budgets.
Instruction: Lectures and practical exercises in medical service accounting, cost accounting, budgeting, and report writing.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1401-0012
ACCOUNTING AND FINANCE SUPERVISOR (DISBURSEMENT ACCOUNTING)
Course Number: 3AAR67170-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 11 weeks (330 hours).
Exhibit Dates: 12/67-12/73.
Objectives: To train enlisted personnel in the principles of accounting and finance administration.
Instruction: Lectures and practical application of basic accounting principles and procedures; finance, material, and commercial services; accounting control; and operation of cash disbursement machine.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of accounting (2/74).

AF-1401-0013
AUDITOR
Course Number: OB6781; OB6871.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 15 weeks (450 hours).
Exhibit Dates: 12/55-12/68.

AF-1401-0014
DISBURSING OFFICER
Course Number: OB6771.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 13 weeks (390 hours).
Exhibit Dates: 12/54-12/68.
Objectives: To train officers to manage financial accounts and services.
Instruction: Lectures in the management and operation of financial accounts, and services, including maintenance of pay records; preparation, computation, and processing of vouchers for pay allowances (per diem and mileage); accounting for public funds; finance office administration and control of financial operations; and organization of finance functions and activities.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in disbursing and finance (6/74); in the upper-division baccalaureate category, 4 semester hours in disbursing and finance (12/68).

AF-1401-0015
ACCOUNTING AND FINANCE SUPERVISOR (DISBURSEMENT ACCOUNTING)
Course Number: AAR67170-3.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 10 weeks (300 hours).
Exhibit Dates: 8/67-12/73.
Objectives: To train personnel to supervise the disbursement functions of accounting and finance activities.
Instruction: Lectures on accounting and finance disbursement functions; areas of travel, military pay, civilian pay, and paying and collecting.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in disbursing accounting (12/68).

AF-1401-0016
ACCOUNTING AND FINANCE AUTOMATED MATERIALS SYSTEM
ACCOUNTING AND FINANCE APPLICATIONS OF BASIC SUPPLY COMPUTER (UNIVAC 1050 II)
Course Number: 3AZR67170.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (72-90 hours).
Exhibit Dates: 10/66-12/73.
Objectives: To train enlisted personnel to perform as accounting and finance specialists at base supply installations using UNIVAC 1050 II computers.
1-28

COURSE EXHIBITS

Instruction: Lectures and practical exercises in the duties and skills necessary to perform as accountants and finance specialists or superintendents at base supply installations and to prepare for the UNIVAC 1050-II computers. Course includes material supply, material system and the UNIVAC 1050 II: categorization of inventory, local procurement, issues, turn-ons, and receipt of material; accounting and finance; UNIVAC 1050 II output; adjustments, system failure, and recovery; and practical applications to the materiel system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in procurement accounting (8/74); in the upper-division baccalaureate category, 2 semester hours in procurement accounting (8/74).

AF-1402-0001

HEALTH SERVICES ADMINISTRATION

Course Number: 3OBR69021-1.
Location: School of Health Care Sciences, Sheppard AFB, TX.
Length: 11 weeks (440 hours).
Exhibit Dates: 6/72-12/73.

Instruction: Lectures and practical exercises in the duties and skills necessary to perform as Air Force Health Service administrators.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in health services administration.

AF-1402-0002

AUTOMATED SYSTEMS PROGRAMMING TECHNICIAN (MANAGEMENT SUPPORT SYSTEMS)

Course Number: 3AZR67899-1.
Location: 3750th Technical Training School, Sheppard AFB, TX.
Length: 7 weeks (210 hours).
Exhibit Dates: 9/67-12/73.

Objectives: To train airmen to write computer programs (Assembler and COBOL) utilizing a UNIVAC 1050 II computer.

Instruction: Lectures and practical exercises in the theory and operating principles of computers, symbolic programming, input/output directives, utility programs, subroutines, COBOL programming, and flow charting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 2 semester hours in computer programming (12/68).

AF-1402-0003

COMPUTER SYSTEMS ANALYST

Course Number: 3OZR5135B, 3OZR5135.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 5 weeks (150 hours).
Exhibit Dates: 10/70-12/73.

Objectives: To train officers in the techniques of computer systems analysis and design.

Instruction: Lectures and practical exercises in preparation, analysis, and design steps of a system study; flowcharting techniques; forms of design; development of program specifications; development of system performance specifications; system implementation considerations; and management of system development activities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business systems analysis (2/74); in the upper-division baccalaureate category, 3 semester hours in business systems analysis (2/74).

AF-1402-0004

PHASE II GENERAL ACCOUNTING APPLICATIONS

Course Number: 3AZR67170-10.
Location: Technical Training Center, Sheppard AFB, TX.
Length: 2 weeks (60 hours).
Exhibit Dates: 12/72-12/73.

Objectives: To train personnel with the skills and knowledge necessary to perform as accounting and finance technicians at installations using Phase II computers (Burroughs 3500).

Instruction: Discussions and practical exercises in Phase II accounting applications, data elements, and codes, established records, processing of daily transactions, processing of reject and management notices, remote operation, batch and interface processing, accounting and finance output from the system, and system recovery procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations (2/74); in the upper-division baccalaureate category, 2 semester hours in computer operations (2/74).

AF-1402-0005

SUPPLY SYSTEMS SPECIALIST

Course Number: 3ALR64830-1.
Location: 3750th Technical School, Amarillo AFB, TX.
Length: 6 weeks (180-191 hours).
Exhibit Dates: 1/73-12/75.

Objectives: To train enlisted personnel in the use of the Burroughs 1050-II computer and support equipment as applied to the operation of base-level supply systems.

Instruction: Lectures and practical exercises in the Burroughs 1050-II computer system, including assembly language, hands-on computer training, central processor functions, various numbering systems, and utility and report generator processing.

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

AF-1402-0006

DATA PROCESSING (SAGE)

Course Number: AZR27379-1.
Location: 3330th Technical School, Keesler AFB, MS.
Length: 6-8 weeks (180-240 hours).
Exhibit Dates: 8/60-12/68.

Objectives: To train airmen to perform duties as mapping supervisors, height supervisors, and manual data supervisors in SAGE direction centers.

Instruction: Demonstrations and discussions on SAGE organizational and functional concepts, communications, symbology interpretation, equipment, and procedures.

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

AF-1402-0007

FORTRAN PROGRAMMING

Course Number: 3AZR68750-2.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 10/64-12/73.

Objectives: To train officers, airmen, and civilians in the techniques of programming in FORTRAN.
AF-1402-0008

COMPUTER PROGRAMMING

Course Number: 3AZR68750;
AZR68750.

Location: 3750th Technical School,
Sheppard AFB, TX.

Length: 7 weeks (210 hours).

Exhibit Dates: 4/64-12/73.

Objectives: To train airmen in the principles and techniques of computer programming (COBOL).

Instruction: Lectures and practical exercises in computer programming, including input/output programming, JOVIAL programming, COSMOS (Colorado Springs Maintenance Operations program System) programming and utility programming using COSMOS, and NOCOPS (NORAD Combat Operations Program System).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (12/68).

AF-1402-0009

COMPUTER PROGRAMMING

Course Number: 4QZFO123-4.

Location: 3380th Technical School,
Keesler AFB, MS.

Length: 3 weeks (90 hours).

Exhibit Dates: 10/64-12/73.

Objectives: To train enlisted personnel in the principles and techniques of computer programming (COBOL). Instruction: Lectures and practical exercises in computer programming, including input/output programming, JOVIAL programming, COSMOS (Colorado Springs Maintenance Operations program System) programming and utility programming using COSMOS, and NOCOPS (NORAD Combat Operations Program System).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming (12/68).

AF-1402-0011

COBOL PROGRAMMING

Course Number: 3AZR51151-1.
AZR68750-1.

Location: 3750th Technical School,
Sheppard AFB, TX.

Length: 3 weeks (90 hours).

Exhibit Dates: 10/64-12/73.

Objectives: To train airmen in the principles and techniques of COBOL programming.

Instruction: Lectures and practical exercises in characteristics of Burroughs 3500 computer, and COBOL language and structure, including coding form, divisions, data processing, control cards, declaratives, and programs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer programming (2/74); in the upper-division baccalaureate category, 3 semester hours in computer operations (12/68).

AF-1402-0013

JOVIAL PROGRAMMING

Course Number: 3AZR68750-3.
AZR68750-3.

Location: 3750th Technical School,
Sheppard AFB, TX.

Length: 4 weeks (120 hours).

Exhibit Dates: 10/64-12/73.

Objectives: To train officers, airmen, and civilians in the techniques of programming in a high-level language (JOVIAL).

Instruction: Lectures and practical exercises in coding constants, assignment and exchange statements, decision-making statements, compound statements, modifiers, indexing and subscripts, subroutines, and string arrays.

Credit Recommendation: 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 (12/68).

AF-1402-0014

COMPUTER PRINCIPLES

Course Number: ABR305XX.

Location: 3380th Technical School,
Keesler AFB, MS.

Objectives: To train enlisted personnel in the principles and capabilities of punched card equipment, electronic data processing, and machine language programming.

Instruction: Lectures and practical exercises in automatic data processing, principles and capabilities of unit record equipment, basic components of electronic data processing systems, system concepts of third-generation computers (Burroughs 3500), and COBOL programming.

Credit Recommendation: 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 (12/68).
1-30 COURSE EXHIBITS

equipment, and procedures. Version 1: Instruction includes training on IBM unit record data processing equipment.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in data processing (2/74). Version 2: No credit because of the limited specialized nature of the course (2/74).

AF-1402-0018

STORE AND FORWARD COMMUNICATIONS SYSTEM COMPUTER PROGRAMMER

Course Number: Version 1: 30ZT3024D. Version 2: 30ZT0124-3; 30ZT0123-3.

Location: Sheppard AFB, TX.


Objectives: To train officers, airmen, and civilians as communications system computer programmers.

Instruction: Lectures and practical exercises in the theory of real-time programming systems. (COBOL) programming techniques, and mathematics, basic programming concepts and testing, and alignment of components; and the use of specialized and standard test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in computer programming, 2 in data communications (2/74); in the upper-division baccalaureate category, 5 semester hours in computer programming, 2 in data communications (2/74); in the upper-division baccalaureate category, 5 semester hours in computer programming, 2 in data communications (2/74); in the upper-division baccalaureate category, 5 semester hours in programming (12/68).

AF-1402-0019

COMPETOR

(DATAPROCESSING MACHINE OPERATOR)

Credit Number: 34BR51130; 34BR51130.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 9-11 weeks (270-300 hours).

Exhibit Dates: 5/65-12/73.

Objectives: To train enlisted personnel in the operation of digital computers, punched card accounting machines, and collators.

Instruction: Lectures and exercises in card punch operation, alphanumeric interpretation, sorting, collating, wiring of control panels; computer components; coding systems; flow charting; stored program instructions; programming language; and computer operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in data processing, unit record, or computer operation (2/74); in the upper-division baccalaureate category, 4 semester hours in data processing, unit record, or computer operation (12/68).

AF-1402-0020

AUTOMATIC DIGITAL SWITCHING TECHNICIAN

Course Number: 4ALT29530-1.

Location: School of Applied Aerospace Sciences, Sheppard AFB, TX.

Length: 11 weeks (320 hours).

Exhibit Dates: 9/64-12/68.

Objectives: To train airmen in the principles of operation and the operating characteristics of digital processing and digital switching equipment.

Instruction: Lectures and practical exercises in the AUTODIN system, message, and codes; paper tape reader/punch; card reader/punch; magnetic tape equipment; memory units; system operation; service routines, and examples of operation and the operating characteristics of data processing and digital switching equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in computers or data processing (3/74).

AF-1402-0021

COMMON DIGITIZER AN/FYQ-40, F & O

Course Number: 2ASR30571-60.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 18 weeks (534 hours).

Exhibit Dates: 5/68-12/73.

Objectives: To train skilled electronics technicians to repair and maintain computerized target acquisition read-out equipment.

Instruction: Lectures and practical exercises in system functions and configurations; block-diagram and circuit analysis; isolation of equipment malfunctions; repair, testing, and alignment of components; and the use of specialized and standard test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in digital logic and switching/microwaves (3/74); in the upper-division baccalaureate category, 2 semester hours as an elective in computers or data processing (3/74).

AF-1402-0022

DIGITAL TECHNIQUES

Course Number: 2ASR30151-4.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 3 weeks (90 hours).

Exhibit Dates: 8/68-12/73.

Objectives: To train enlisted personnel in the principles of digital data processing circuitry.

Instruction: Lectures and practical exercises in digital techniques; review of transistor principles; numbering systems, logic, and Boolean expression; analysis of digital computer circuits; and functional analysis of computers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in computers (3/74); in the upper-division baccalaureate category, 2 semester hours in computers (3/74).

AF-1402-0023

ELECTRONIC DIGITAL COMPUTER REPAIRMAN (DISPLAY EQUIP/465L)

Course Number: ABR30533-4.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 15 weeks (450 hours).

Exhibit Dates: 5/64-12/68.

Objectives: To train enlisted personnel to operate, inspect, and maintain electronic data display equipment.

Instruction: Lectures and practical exercises in electronic digital computer data display central computer equipment, inspection, and maintenance procedures, including electronic and data processing principles, digital techniques, circuit logic, maintenance concepts, test routines, malfunction analysis, components isolation and repair, and use of associated aerospace ground equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1402-0024

F-111A COMPUTER/NAVIGATION TEST STATION TECHNICIAN

Course Number: 3ALR30174-3.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 12 weeks (360 hours).

Exhibit Dates: 5/68-12/73.

Objectives: To train airmen to perform maintenance and shop repair on computer/navigation test stations.

Instruction: Lectures and practical exercises in digital fundamentals, binary and octal numbers, algebra, logic symbols, functions and circuits, signal flow analysis, equipment operation principles.

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

AF-1402-0025

DATA PROCESSING MACHINE OPERATOR (PUNCHED CARD)

Course Number: ATS68530A-1.

Location: 3750th Technical Training Center, Sheppard AFB, TX.

Length: 6 weeks (180 hours).

Exhibit Dates: 3/59-12/68.

Objectives: To train personnel in the operation of electrical accounting machines.

Instruction: Operating principles, capabilities, and limitations of sorts, card-punch machines, collators, and accounting and calculating machines.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in unit record data processing (2/74).

AF-1402-0026

DATA PROCESSING MACHINE OPERATOR (PUNCHED CARD)

(MACHINE ACCOUNTANT)

Course Number: ABR68530A; AB68230A; AB68230.


Length: 11-12 weeks (300-360 hours).

Exhibit Dates: 5/54-12/68.
AF-1402-0027

F/IB-111 AVIONICS AGE MAINTENANCE
TECHNICIAN

Course Number: 3ALR32630.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 36 weeks (1080 hours).

Exhibit Dates: 4/68-12/73.

Objectives: To train enlisted personnel to inspect, test, maintain, and repair the aerospace ground equipment for F/IB-111 aircraft.

Instruction: Lectures and practical exercises in aerospace ground equipment inspection, testing, maintenance, and repair, including digital computer fundamentals and principles of operation, nuclear safety, computer navigational and flight controls test stations operation and maintenance, receiver-transmitter-modulator test stations operation and maintenance, and infrared and Doppler test stations operation and maintenance, with emphasis on troubleshooting and servicing procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in fundamentals of digital computers (4/74); in the upper-division baccalaureate category, credit in digital computer fundamentals on the basis of institutional evaluation (4/74).

AF-1402-0028

GROUND SYSTEMS MAINTENANCE
TECHNICIAN (OA-6943/GRC-137)

Course Number: 5ANK30474-4;
5AZK30474-4.
Location: Security Service School, Goodfellow AFB, TX.
Length: 4 weeks (120 hours).

Exhibit Dates: 3/72-12/73.

Objectives: To train enlisted personnel to maintain the OA-6943/GRC-137 remote console message system.

Instruction: Lectures and practical exercises in the maintenance of the OA-6943/GRC-137 remote console message system, including message format and construction, and the operation, troubleshooting, and block and logic analysis of remote console units.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1402-0029

OPERATION AND MAINTENANCE OF UNIVAC 1218 COMPUTER

Course Number: 3AZR31672H-1.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 10 weeks (300 hours).

Exhibit Dates: 9/72-12/73.

Objectives: To train personnel in the operation of electronic data processing equipment.

Instruction: Lectures and practical exercises in the principles and operation of card punch, reproducing punch, accounting and calculating machines, alphanumeric collators, and data processing equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in unit record data processing (2/74).

AF-1402-0030

SAGE COMPUTER PROGRAMMER

Course Number: 30ZR0123-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 18 weeks (522 hours).

Exhibit Dates: 5/68-12/73.

Objectives: To train officers to perform as SAGE computer programmers.

Instruction: Lectures and practical exercises in the functions of SAGE computer programmers, including computer principles, computer mathematics, programming concepts and compiler language programming techniques, machine language coding, peripheral equipment programming, interpretation of programs, and modification and adoption of existing programs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in computer programming (4/74); in the upper-division baccalaureate category, 3 semester hours in computer programming (12/68).

AF-1402-0031

COMPUTER MAINTENANCE OFFICER

Course Number: 3OLR3061, 30ZR3061.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 12 weeks (360 hours).

Exhibit Dates: 10/71-12/73.

Objectives: To train officers to supervise the maintenance of computers.

Instruction: Lectures and practical exercises in the maintenance of computers, including computer principles, numbering systems, storage principles, basic programming, read/write operations, internal logic of computer, hardware routines, input/output terminal equipment (emphasis on display consoles), and maintenance program development and analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer maintenance, 3 in data processing principles (4/74); in the upper-division baccalaureate category, 3 semester hours in computer maintenance, 3 in data processing principles (4/74).

AF-1402-0032

COMPUTER SYSTEMS PROGRAMMING
OFFICER, SAGE

Course Number: 3AZR5144-1.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 8 weeks (228-254 hours).

Exhibit Dates: 1/71-12/73.

Objectives: To train officers to program the SAGE system computer.

Instruction: Lectures and practical exercises in SAGE system computer programming, including basic assembly programming, fundamentals of radar, air surveillance, weapons, real-time control, operational program analysis, I/O methods and equipment, program documentation and debugging, and functions of utility, simulation, and data reduction programs.

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

AF-1402-0033

HM4118 COMPUTER PROGRAMMER
TACTICAL AND CONTROL SYSTEM

Course Number: 3AZR51151-4.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 12 weeks (360 hours).

Exhibit Dates: 2/73-12/73.

Objectives: To train enlisted personnel who have had training in basic computer programming to operate computers in the tactical air control system.

Instruction: Lectures and practical exercises in the operation of computers in the tactical air control system, including computer system specifications, signal flow analysis, program module function, computer programming, symbolic language, word format and subsystem unit identification, real-time programming, operation of the tactical air control data recording, data reduction, and system software application and assembly.

Credit Recommendation: 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).

AF-1402-0034

AIR FORCE INTEGRATED COMMAND AND
CONTROL SYSTEM COMPUTER PROGRAMMER

Course Number: 3OZR5144-2.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 13 weeks (402 hours).

Exhibit Dates: 3/71-12/73.

Objectives: To train officers and airmen to perform as computer programmers on IBM 1410 equipment.

Instruction: Lectures and practical exercises in computer programming on IBM 1410 equipment, including computer principles, basic programming concepts and techniques, assembler language programming, machine language coding, peripheral equipment programming (magnetic disks, line printers, magnetic tapes, display consoles, and miscellaneous input/output devices), data storage files,
and automated systems program design, in-

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 6 semester hours in computer
programming (4/74), in the upper-
division baccalaureate category, 6 semester hours in computer
programming (4/74).

AF-1402-0035
COMPUTER SYSTEMS PROGRAMMING OFFICER
Course Number: 3OBRS5141.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12 weeks (360 hours).
Exhibit Dates: 9/70-12/73.
Objectives: To train officers to program
computer systems and design automated
systems programs.
Instruction: Lectures and practical exercises
in computer systems programming and
automated systems program design, in-
cluding programming techniques, computer
mathematics, operating principles, flow charting methods and applications, pro-
gram testing and debugging, machine lan-
geuage, assembler language programming, compiler theory and
languages (FORTRAN, COBOL, and JOVI-
AL), on-line and real-time systems, princi-
ple of system analysis and design, and
management and direction of programming activities.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 5 semester hours in computer
programming, 2 in business systems analy-
sis (4/74), in the upper-division baccala-
ureate category, 5 semester hours in com-
puter programming, 2 in business systems analysis (4/74).

AF-1402-0036
1. DATA PROCESSING MACHINE
SUPERVISOR

3. DATA PROCESSING MACHINE
SUPERVISOR (PUNCHED CARD)
(MACHINE ACCOUNTING SUPERVISOR)

4. DATA PROCESSING MACHINE
SUPERVISOR (PUNCH CARD)
(MACHINE ACCOUNTING SUPERVISOR)

Course Number: Version 1: 3AA687570.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (78 hours).
Exhibit Dates: 12/60-12/73.
Objectives: To train enlisted personnel in
computer operations.
Instruction: Lectures in computer
operations, including data organization,
computer and components, programming
logic applications, and COBOL language,
programming techniques and requirements.

Seven-week course includes detailed train-
ing in computer operation, magnetic tape,
and disk applications. Nine-week course in-
cludes basic computer programming and

AF-1402-0037
PROGRAMMING SPECIALIST
Course Number: 3ABR68730.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12 weeks (360 hours).
Exhibit Dates: 11/64-12/73.
Objectives: To train enlisted personnel in
data processing principles and computer
programming in a compiler language.
Instruction: Lectures in data processing
introduction, including data organization,
computer and components, programming
logic applications, and COBOL language,
programming techniques and requirements.

Seven-week course includes detailed train-
ing in computer operation, magnetic tape,
and disk applications. Nine-week course in-
cludes basic computer programming and

AF-1402-0038
MANAGEMENT/SUPERVISION OF A DATA
PROCESSING INSTALLATION (DPI)
Course Number: 3A5R51170.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 2/72-1/73.
Objectives: To train enlisted personnel to
be computer operations supervisors.
Instruction: Lectures, demonstrations,
and practical exercises in data processing
activities organization; data processing in-
stallation evaluation; production control;
security procedures; personnel supervision;
and data processing management, including
equipment operation and maintenance,
storage, supplies, reporting procedures, and
facilities management.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 3 semester hours in data
processing management (4/74); in the upper-
division baccalaureate category, 3 semester hours in data
processing management (4/74).

AF-1402-0039
DATA SYSTEMS ANALYSIS AND DESIGN
(OFFICER)
Course Number: 3OZ65854; OZ65834;
OT65854-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 12/60-12/73.
Objectives: To train officers in data
systems analysis and design.
Instruction: Lectures in data systems
study preparation, initial survey, interview-
ing, systems flowcharting, analysis of
present system resources; decision logic ta-
tables, electronic data processing equipment,
computer programming introduction, opera-
tion, system design characteristics and
design requirements, data system specifica-
tions, and proposed system follow-up.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 2 semester hours in computer
systems (2/74); in the upper-division bac-
calaureate category, 2 semester hours in computer
systems (12/68).

AF-1402-0040
1. COMPUTER SYSTEMS ANALYSIS AND
DESIGN (ENLISTED)
2. DATA SYSTEMS ANALYSIS AND DESIGN
(ENLISTED)

Course Number: Version 1: 3AZR51172.
Version 2: 3A5R68760; 3AZR68760;
ATS65870B-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: Version 1: 5 weeks (150 hours).
Version 2: 4-5 weeks (120-150 hours).
Exhibit Dates: Version 1: 12/71-12/73.
Version 2: 2/61-1/73.
Objectives: To train enlisted personnel in
systems analysis and design techniques.
Instruction: Lectures in data systems
concepts, systems study techniques, system
flowcharting, document analysis, item
analysis, decision logic tables, system
design characteristics, and designing,
presenting, and flowcharting the proposed
system.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 3 semester hours in busi-
ness systems analysis (2/74); in the upper-
division baccalaureate category, 3 semester hours in business
systems analysis (2/74).

Version 1: In the lower-division baccalaureate/associate degree
category, 2 semester hours in computer
systems (2/74); in the upper-
division baccalaureate category, 2 semester hours in computer
systems (12/68).

AF-1402-0041
ADVANCED DATA PROCESSING AUDIT
ANALYSIS
Course Number: 3OZ65874-1.
AF-1402-0042
AUDITING DATA PROCESSING SYSTEMS

**Course Number:** Version 1: 3OZR6784. Version 2: OZR6784.
**Location:** 3750th Technical School, Sheppard AFB, TX.
**Length:** Version 1: 3-4 weeks (90-108 hours). Version 2: 3-4 weeks (90 hours).

**Objectives:** To train auditors to audit and evaluate operational automated data processing systems.

**Instruction:** Lectures and laboratory in automated data processing concepts, flow charting, computer programming techniques, computer processes, computer assisted audit techniques, and automated data processing equipment.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in data processing principles (4/74); in the upper-division baccalaureate category, 2 semester hours in data processing principles (4/74).

AF-1402-0044
AUTOMATED SYSTEMS PROGRAM DESIGNER

**Course Number:** 3OZR5141-1.
**Location:** 3750th Technical School, Sheppard AFB, TX.
**Length:** 12 weeks (360 hours).
**Exhibit Dates:** 9/71-12/73.

**Objectives:** To train officers as computer systems programmers, officers and automated systems programs designers.

**Instruction:** Lectures and practical exercises in the design and programming of business data systems, including fundamentals of computer programming, machine and assembler language programming, compiler theory and higher-level languages using FORTRAN IV and COBOL, computer mathematics, use of magnetic tape files and disk files, and basic JOVIAL procedures.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing, 3 in computer programming—assembly language, 3 in computer programming—FORTRAN, 3 in computer programming—COBOL, 3 in business systems analysis (7/74); in the upper-division baccalaureate category, 3 in computer programming—assembly language, 3 in computer programming—compiler languages (FORTRAN IV and COBOL), 3 in systems analysis (7/74).

AF-1402-0045
STATISTICAL SERVICES OFFICER

**Course Number:** SS6834.
**Location:** 3750th Technical School, Sheppard AFB, TX.
**Length:** 5 weeks (150 hours).
**Exhibit Dates:** 7/58-12/68.

**Objectives:** To train officers to operate electrical accounting machines and to manage data processing systems.

**Instruction:** Lectures and practical exercises in the operation of electrical accounting machines and the management of data processing systems, including principles of punched-card accounting, operation and capabilities of basic data processing machines, IBM 407 accounting machines, and IBM 602A calculating punch machines, computer programs, and electronic data processing machines.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in punched-card data processing equipment (4/74).

AF-1402-0046
COMPUTER SYSTEMS OPERATIONS OFFICER

**Course Number:** 3OBRS5151; 3OBRS6851; OBSRS581.
**Location:** 3750th Technical School, Sheppard AFB, TX.
**Length:** 8-11 weeks (240-330 hours).
**Exhibit Dates:** 9/68-12/73.

**Objectives:** To train officers to manage electronic data processing activities.

**Instruction:** Lectures and practical exercises in the management of electronic data processing activities and punched-card equipment, including data representation, computer components, assembler language programming, compiler languages, data communications, software control, and software associated equipment, data systems analysis, design and implementation, and personnel management.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing, 3 in computer programming—assembly language, 3 in computer programming—FORTRAN, 3 in computer programming—COBOL (7/74); in the upper-division baccalaureate category, 3 semester hours in principles of data processing, 3 in computer programming—assembly language, 3 in computer programming—FORTRAN, 3 in computer programming—COBOL (7/74).
AF-1402-0054
PROGRAMMING CONCEPTS
Course Number: AZR68730.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/63-12/68.
Objectives: To train airmen in the fundamentals of computer programming.
Instruction: Lectures and practical exercises in the fundamentals of computer programming, including data systems concepts, familiarization with computer systems and punched-card accounting machines, components of a computer, data flow, binary coding system, numbering systems, computer storage and input/output media, and basic computer programming.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in data processing (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in data processing (7/74).

AF-1402-0055
OPERATION AND MAINTENANCE OF UNIVAC 1218 COMPUTER
Course Number: AZR31672H-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 10 weeks (300 hours).
Exhibit Dates: 4/67-12/68.
Objectives: To train airmen to operate, program, troubleshoot, and maintain UNIVAC 1218 digital computers.
Instruction: Lectures and practical exercises in operation, programming, troubleshooting, and maintenance of UNIVAC 1218 digital computers, including block diagramming, computer logic, analysis of computer components and circuitry, computer arithmetic section, input/output section, wire-wrapping techniques, and computer memory section analysis.
Credit Recommendation: 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, 3 semester hours in computer operation in the field of computer sciences (12/68).

AF-1402-0056
WEAPONS CONTROLLER/TECHNICIAN, BUIC III
Course Number: JOLR1741E.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS; 3380th Technical School, Keesler AFB, MS.
Length: 3-4 weeks (127 hours).
Exhibit Dates: 2/70-12/73.
Objectives: To train enlisted personnel as weapons controllers employing real-time computer support (BUIC III).
Instruction: Lectures and practical exercises in duties of weapons controllers and use of real-time computer support, including data processing principles, data communications, computer control, and AESOP (advanced electronic support system).
Credit Recommendation: No credit because of the military nature of the course (7/74).

AF-1402-0057
STORE AND FORWARD COMMUNICATIONS SYSTEM COMPUTER PROGRAMMER

Course Number: 30ZR0123-3.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 17 weeks (510 hours).
Exhibit Dates: 9/66-12/73.

Objectives: To train officers to program real-time command and control systems using a compiler language (JOVIAL).

Instruction: Lectures and practical exercises in programming real-time command and control systems using a compiler language (JOVIAL). Topics include introduction to computers and computer systems, logic, binary and octal mathematics, coding schemes, computer elements and system organization, flowcharting, information organization and storage, data manipulation, digital technique/computer logic, digital devices, Boolean algebra, and extensive programming in JOVIAL language. Special considerations in the field of computer science (12/68).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in programming-assembler, and 4 in computer programming—compiler (7/74); in the upper-division baccalaureate category, 5 semester hours in computer science or computer programming (12/68).

AF-1402-0059

1. SUPPLY SYSTEMS SUPERVISOR
2. SUPPLY OPERATION ANALYSIS/DESIGN

Course Number: Version 1: 3AZR64870A. Version 2: 3AZR64870A-1; A2R64870A.
Location: All Versions: 3341st Technical School, Lowry AFB, CO. Version 2: 3320th Technical School, Amarillo AFB, TX.

Objectives: To train enlisted personnel in the duties of supply system specialists.

Instruction: All Versions: Lectures and practical exercises in the duties of supply system specialists. Course includes training in characteristics, functions, and techniques of UNIVAC 1050-II computer systems, internal records, number systems, addressing and storage techniques, error analysis, and correction, utility programs and collective readouts, file management, peripheral devices, memory and arithmetic units, and data reduction techniques.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer programming—compiler (7/74); in the upper-division baccalaureate category, 5 semester hours in computer science or computer programming (12/68).

AF-1402-0060
BASE LEVEL MILITARY PERSONNEL SYSTEM (BLMPS), PHASE II

(BASE LEVEL MILITARY PERSONNEL SYSTEM (BLMPS)/PERSONAL DATA SYSTEM (PDS) WORK CENTER OPERATIONS, PHASE II)

Course Number: 3AZR73270-D.

Objectives: To train enlisted personnel to apply digital computers to flight simulation.

Instruction: Lectures and practical exercises in the application of digital computers to flight simulation. Course includes computer mathematics, flow charting, computer programming fundamentals, input/output devices, memory and arithmetic units, and data reduction techniques.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data processing, 6 in computer programming—compiler (7/74); in the upper-division baccalaureate category, 3 semester hours in introduction to computer science (7/74). In the lower-division baccalaureate category, 3 semester hours in principles of data processing, 3 in computer architecture (7/74). In the upper-division baccalaureate category, 3 semester hours in principles of data processing, 3 in computer science (7/74).
AF-1402-0063

SAGE MAINTENANCE CONTROL TECHNICIAN

Course Number: ATS30571-33
Location: 3380th Technical School
Keesler AFB, MS.
Length: 12 weeks (360 hours).
Exhibit Dates: 2/62-12/68.
Objectives: To train selected enlisted personnel to organize and operate SAGE systems and the AN/FSQ-7 and AN/FSQ-8.

Instruction: Lectures and practical exercises in the organization and operation of SAGE systems and the AN/FSQ-7 and AN/FSQ-8. Course includes general instruction in SAGE systems, basic computer theory, computer instruction and programming, data systems, and maintenance devices and consoles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in computer sciences (8/74).

AF-1402-0064

AUTOMATED SYSTEMS ANALYST

(Management Support Systems)

Course Number: 30ZR0678-2
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 9/67-12/68.
Objectives: To train selected officers to analyze and use data systems.

Instruction: Lectures and practical exercises in the techniques of analysis and use of automated data systems. Course includes techniques for conducting a data systems study, flow charting, data analysis, application of automatic data processing equipment, and systems implementation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in data systems analysis (8/74); in the upper-division baccalaureate degree category, 2 semester hours in computer programming (12/68).

AF-1402-0066

AUTOMATED SYSTEMS ANALYST

(Management Support Systems)

Course Number: 3AZR0679-2
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (150 hours).
Exhibit Dates: 9/67-12/73.
Objectives: To train enlisted personnel as automated systems analysts.

Instruction: Lectures and practical exercises in data systems analysis. Course includes data systems concepts, systems analysis, equipment and communications concepts, computer programming techniques, and systems design and implementation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer systems analysis (8/74); in the upper-division baccalaureate category, 2 semester hours in computer programming and systems analysis (12/68).

AF-1402-0067

CHECKOUT SEQUENCE PROGRAMMING SET, AN/GSM-133 (AGM-69A)

Course Number: 2ASR31672
Location: 3345th Technical School, Chanute AFB, IL.
Length: 6 weeks (180 hours).
Exhibit Dates: 1/69-12/73.
Objectives: To train maintenance personnel to maintain the AN/GSM-133 aircraft missile.

Instruction: Lectures and practical exercises in the maintenance of the AN/GSM-133 aircraft missile. Course includes operating procedures, function analysis, logic diagram analysis, fault isolation, replacement of fault components, and the repair of the missile.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in computer science (8/74).

AF-1403-0001

1. ADMINISTRATIVE SPECIALIST
2. ADMINISTRATIVE SPECIALIST
3. ADMINISTRATIVE CLERK

Course Number: Version 1: 3ABR70230


Objectives: To train airmen in the duties of administrative specialists (clerks).

Instruction: Lectures and practical experience in terminology and abbreviations, code words, sec- tion name control programs, written communications, administrative aids, mail processing, writing, flight records, and typing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in typing and office procedures (3/74); in the upper-division baccalaureate category, credit in typing and office procedures on the basis of institutional evaluation (12/68).

AF-1404-00003

CRYPTOGRAPHIC OPERATOR

Course Number: AL29230.
Location: Air Training Command, Scott AFB, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 1/56-1/59.
Objectives: To train selected personnel to operate cryptographic devices and to encrypt and decipher classified messages.

Instruction: Course covers security and communications, cryptosystems and cryptographic center operation. Student enciphers and deciphers messages, using mechanical or electromechanical devices.

Credit Recommendation: No credit because of the military-specific nature of the course (11/77).

AF-1405-0001

BASE SUPPLY MANAGEMENT

Course Number: 550.
Location: School of Systems and Logistics, Wright-Patterson AFB, OH.
Length: 3 weeks (120 hours).
Exhibit Dates: 1/70-Present.
Objectives: To provide warrant officers and civilian personnel with training in the principles and procedures of resource management.

Instruction: Lectures and workshops in the principles of resource management, including logistic policies and processes, data processing, weapons system acquisition, equipment management, personnel management, maintenance and procurement procedures within supply, organizations, and a logistic management exercise.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in supply management (2/74), in the upper-division...
baccalaureate category, 1 semester hour in supply management (12/68).

AF-1405-0002
DEFENSE DATA MANAGEMENT

Course Number: 380
Location: School of Systems and Logistics, Wright-Patterson AFB, OH.
Length: 4 weeks (160 hours).
Exhibit Dates: 1/70-1/73.
Objectives: To train personnel in the management of data and information systems, including data management policies, and technical manuals and specifications for data users.
Credit Recommendation: No credit because of the limited specialized nature of the course (2/74).

AF-1405-0003
LOGISTICS SPECIALIST

Course Number: 3ALR66130
Location: 3451th Technical School, Lowry AFB, CO.
Length: 6 weeks (180 hours).
Exhibit Dates: 4/57-12/68.
Objectives: To prepare supply officers to manage logistics systems, including national defense policies, and to ensure the efficient use of resources.
Instruction: Lectures, discussions, and workshops in logistics management, including stock control, inventory, and supply planning.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in logistics management (12/68).

AF-1405-0004
AFK SUPPLY MANAGEMENT

Course Number: 3AAB64570-1; 3AZR64570-1
Location: School of Applied Aerospace Sciences, Lowry AFB, CO.
Length: 4-5 weeks (120-150 hours).
Exhibit Dates: 10/55-12/68.
Objectives: To train officers of the Medical Service Corps in supply management, including management and control of medical supply systems.
Instruction: Lectures and practical exercises in supply management, including inventory control, requisitioning, and distribution systems.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (12/68).

AF-1405-0005
STOCK CONTROL TECHNICIAN

Course Number: AA64175
Location: 1450th Technical Training Group, Francis E. Warren AFB, WY.
Length: 5-6 weeks (120-180 hours).
Exhibit Dates: 4/57-12/68.
Objectives: To prepare students to control stock levels, analyze logistical data, and review requests for property issue.
Instruction: Through discussion and application student learn to control stock levels, to compile and apply workload data, to analyze priority and special project requisitions and follow-up, and to monitor allowance tables. Topics also include elements of stock control, supply discipline and procedures, inventory control systems, and technical manuals on data management procedures, stock balance and consumption reporting, and the purpose and use of item comparison statistics.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in survey of logistics (6/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in supply management (12/68).

AF-1405-0006
MEDICAL SUPPLY OFFICER

Course Number: None.
Location: School of Aviation Medicine, Gunter AFB, AL.
Length: 7 weeks (273 hours).
Exhibit Dates: 10/55-12/68.
Objectives: To train medical supply officers in the management of medical supply systems, including medical equipment and supplies.
Instruction: Lectures and practical exercises in medical supply management, including medical equipment and supplies.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in supply management (12/68).

AF-1405-0007
LOGISTICS MANAGEMENT

Course Number: 581.
Location: School of Systems and Logistics, Wright-Patterson AFB, OH.
Length: 4-5 weeks (117-135 hours).
Exhibit Dates: 3/69-6/73.
Objectives: To train personnel to operate and manage accounts and to control nuclear ordnance supplies and equipment.
Instruction: Specialized training in accounting and inventory procedures, security and safety, and requisitioning, shipping, handling, and storage of nuclear and conventional ordnance equipment.
Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

AF-1405-0008
SUPPLY OPERATIONS OFFICER

Length: 8-12 weeks (234-360 hours).
Exhibit Dates: 2/54-12/73.
Objectives: To train officers in supply management practices and procedures.
Instruction: Lectures and practical exercises in materials management and control principles; technical aspects of reference data and inventory record keeping; supply organization; warehousing and carrier systems; cataloging; and supplies and equipment receiving, storage, and distribution procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in supply management (6/74); in the upper-division baccalaureate/associate degree category, 4 semester hours in supply management (12/68).
AF-1405-0010

ORGANIZATIONAL SUPPLY SPECIALIST

Course Number: All Versions


Objectives: To train airmen to perform as organizational support specialists.

Instruction: All Versions: Lectures and practical exercises in organizational support methods, including publications; equipment and supply management; personnel administration; supervision and record keeping.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in supply management (6/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in supply management (6/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in supply management (6/74).

AF-1405-0012

MATERIEL FACILITIES SPECIALIST (WAREHOUSING SPECIALIST)

Course Number: 3ABB46730-1; 3ABB46730; AB64130.


Objectives: To train airmen to perform as materiel facilities specialists.

Instruction: Lectures and practical exercises in supply system familiarization; automatic data processing; storage facilities; storage and materials handling; technical publications; purchasing; procurement and coordinating; and receiving.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in materials management (6/74); in the upper-division baccalaureate/associate degree category, credit in property accounting on the basis of institutional evaluation (12/68).

AF-1405-0014

BASE PROCUREMENT OFFICER

Course Number: 30ZB6531.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 2 weeks (72 hours).

Exhibit Dates: 7/70-12/73.

Objectives: To train commissioned officers to perform as base procurement officers.

Instruction: Lectures and practical exercises in procurement procedures and practices. Course includes organization, nonappropriated funds; purchasing and contracting; accounting and budget preparation; system life cycle, system program documentation; and programming and financial management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in purchasing and contracting (6/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in purchasing management (6/74).

AF-1405-0015

CENTRAL PROCUREMENT OFFICER

Course Number: 30IR631-3.

Location: School of Applied Aerospace Sciences, Lowry AFB, CO; 3415th Technical School, Lowry AFB, CO.

Length: 6-9 weeks (168-270 hours).

Exhibit Dates: 4/70-12/73.

Objectives: To train personnel as systems procurement officers.

Instruction: Lectures and practical exercises in systems procurement, including procurement and production fundamentals, acquisition and coordination; budget preparation and coordination; specialized training in base, central, contract, systems, and research and development procurement; procurement by advertising and negotiation; interdepartmental and coordinated procurement; organization and policy formulation; precontract analysis; and postcontract functions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in purchasing management (6/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in purchasing management (6/74).

AF-1405-0016

SYSTEMS PROCUREMENT OFFICER

Course Number: 30ZB6531-3.

Location: 3415th Technical School, Lowry AFB, CO; School of Applied Aerospace Science, Lowry AFB, CO.

Length: 3 weeks (90-104 hours).

Exhibit Dates: 5/54-12/73.

Objectives: To train commissioned officers in procurement systems and functions.

Instruction: Lectures and practical exercises in procurement systems and operations. Course includes principles of system procurement, system program management, system life cycle, system program documentation, and programming and financial management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in purchasing management (6/74); in the upper-division baccalaureate category, 3 semester hours in purchasing management (6/74).

AF-1405-0019

1. MOTOR VEHICLE MANAGEMENT OFFICER
2. MOTOR VEHICLE MAINTENANCE OFFICER
3. MOTOR VEHICLE MAINTENANCE OFFICER


Location: All Versions: 3345th Technical School, Chanute AFB, IL. Version 1: School of Applied Aerospace Sciences, Chanute AFB, IL.


Objectives: To train officers to perform as motor vehicle management or maintenance officers.

Instruction: All Versions: Lectures and practical exercises in motor vehicle management or maintenance, including personnel administration, supervision, and training; miscellaneous vehicular equip-
ment, and shop procedures, including budgeting. Version 1: Includes motor vehicle operation.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in supply management (7/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in supply management (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in supply management (12/68).

AF-1405-0020

PROCUREMENT SPECIALIST

Course Number: AT65150:1
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 3/59-12/68.

Objectives: To train officers and civilian personnel in procurement procedures. Instruction: Lectures and practical exercises in procurement procedures, including procurement organization and publications, contracts, negotiation, advertising, bonds and securities, construction contracts, registers and reports, and termination procedures.

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

AF-1405-0021

SUPPLY RECORDS SUPERVISOR

Course Number: AA64174
Location: 3450th Technical School, Warren AFB, WY.
Length: 7 weeks (210 hours).
Exhibit Dates: 12/58-12/68.

Objectives: To train enlisted personnel to maintain and control supply records.

Instruction: Lectures and practical exercises in the maintenance and control of supply records. Course includes methods of research in supply procedures, organization, data measurement, personnel management, inventory accounting, procurement, and special supply procedures.

Credit Recommendation: 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 (12/68).

AF-1405-0022

BALLISTIC MISSILE INVENTORY MANAGEMENT AND COMLOGNET PROCEDURES

(BALLISTIC MISSILE INVENTORY MANAGEMENT PROCEDURES AND LOGHALNET OPERATIONS)

Course Number: ADS54550
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 4 weeks (120-160 hours).
Exhibit Dates: 5/59-12/68.

Objectives: To train enlisted personnel to maintain supply records, inventory, stock levels, and inputs to the ballistic missile supply support system.

Instruction: Lectures and practical exercises in the maintenance of supply records and inventory. Course includes processing of supply documents, reporting transactions, inventory control, and training in keypunching, data transcribing, and teletypewriter operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in inventory accounting, procurement, research, supply records. Course includes methods of exercises in the maintenance and control of supply records, inventory, stock levels, and inputs to the ballistic missile supply support system.

AF-1405-0023

FUEL SPECIALIST (MISSILE LIQUID FUEL PROPPELLANT)

(FUEL SPECIALIST (UNCONVENTIONAL FUELS))

Course Number: ALR63130B
Location: 3345th Technical School, Chanute AFB, IL.
Length: 5-7 weeks (162-210 hours).
Exhibit Dates: 3/61-12/68.

Objectives: To train enlisted personnel as apprentice fuel specialists for unconventional fuels.

Instruction: Lectures and practical exercises in the duties of an apprentice fuel specialist. Course includes safety procedures and use of safety equipment, unstable liquid fuels, and high-pressure gases, quality control techniques in storing and transporting, and disposal techniques for contaminated or toxic fuels.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in mechanical systems or materials handling (7/74).

AF-1405-0024

FUEL SUPPLY SPECIALIST, IM-99

Course Number: AT64350B:1
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 12/58-12/68.

Objectives: To train enlisted personnel to receive, store, transfer, and dispose of liquid rocket fuels and oxidizers. Course includes basic missile design, missile power plants, fuel delivery and transfer systems, availability of missile fuel, safety procedures, and hazards characteristics of cryogenic liquids and high-pressure gases.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in mechanical systems (7/74).

AF-1405-0025

FUEL SPECIALIST

Course Number: 3ABR63130
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 8 weeks (216-273 hours).
Exhibit Dates: 6/71-12/73.

Objectives: To train enlisted personnel to receive, store, and issue petroleum products and maintain quality control of these products.

Instruction: Lectures and practical exercises in the receipt, storage, and maintenance of petroleum products. Course includes internal management control documents, use of fuel technical publications, and the design and function of fuel transfer equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in inventory management or mechanical technology (7/74).

AF-1405-0026

LOGISTICS OFFICER

Course Number: 3OBK6521.
Location: 305th Technical School, Lowry AFB, CO.
Length: 8 weeks (240 hours).
Exhibit Dates: 3/69-12/73.

Objectives: To train commissioned officers to manage and control the supply, maintenance, transportation, procurement, and production functions of logistics at a military headquarters.

Instruction: Lectures and practical exercises in the management and control of the supply, maintenance, transportation, procurement, and production functions of logistics at a military headquarters. Course includes planning, programming, budgeting, financial management, and the logistics cycle; implementation, support, employment, and phase-out of weapons systems; logistics at the wholesale and retail level; and quantitative logistics methods.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in logistics management, 2 in quantitative methods in logistics (8/74); in the upper-division baccalaureate category, 3 semester hours in logistics management, 2 in quantitative methods in logistics (8/74).

AF-1405-0027

AMA/DIRECTORATE OF MATERIEL MANAGEMENT

Course Number: 130.
Location: School of Systems and Logistics, Wright-Patterson AFB, OH.
Length: 4 weeks (104-144 hours).
Exhibit Dates: 3/69-Present.

Objectives: To train selected enlisted personnel to manage materiel support functions.

Instruction: Lectures and practical exercises in the management of materiel support functions. Course includes planning and programming cycles, logistics programs management system, materiel utilization and disposition, and materiel management.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours as an elective in logistics (8/74).

AF-1405-0028

MATERIEL CONTROL

Course Number: 3泽431701.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 2/61-12/68.

Objectives: To train selected enlisted personnel in the functions and procedures of materiel control.

Instruction: Lectures and practical exercises in the receipt, storage, and maintenance of petroleum products. Course includes internal management control documents, use of fuel technical publications, and the design and function of fuel transfer equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in inventory management or mechanical technology (7/74).
AF-1405-0029
ADVANCED BASE PROCUREMENT MANAGEMENT
Course Number: 30ZR6534-1; OZR6534-1
Location: 3415th Technical School, Lowry AFB, CO.
Length: 4 weeks (120 hours).
Objectives: To train enlisted personnel and civilians to manage procurement functions on a military base.
Instruction: Lectures and practical exercises in the management of procurement functions on a military base. Course includes office management, policy decisions, human relations, and contract law related to the procurement field.
Credit Recommendation: No credit because of the limited specialized nature of the course (8/74).

AF-1405-0030
1. REDISTRIBUTION AND MARKETING
(REDEMPTION AND MARKETING OFFICER)
2. REDISTRIBUTION AND MARKETING OFFICER
Course Number: Version 1: 3AZR64570-2; 3AZR6170-2; AZR6170-1; OZR6224-2.
Location: All Versions: 334th Technical School, Amarillo AFB, TX. Version 1: 3415th Technical School, Lowry AFB, CO.
Length: Version 1: 4 weeks (120 hours);
Version 2: 5 weeks (90-120 hours).
Exhibit Dates: Version 1: 10/64-12/73.
Version 2: 5/60-9/64.
Objectives: To train enlisted personnel, officers, and civilians to operate and manage a base redistribution and marketing activity.
Instruction: Lectures and practical exercises in the operation and management of a base redistribution and marketing activity. Course includes use of disposal publications; identification and documentation of services excess; identification and segregation of metallic, DoD facilities and equipment program; reclamation and demilitarization, disposal of excess, and accounting and reporting procedures.
Credit Recommendation: No credit because of the limited specialized nature of the course (8/74).

AF-1405-0031
REDISTRIBUTION AND MARKETING SPECIALIST
(DISPOSAL SPECIALIST)
Course Number: AZR61150-1; ATS64750-3; ATS64750-1
Location: 3415th Technical School, Amarillo AFB, TX.
Length: 3-4 weeks (90-120 hours).
Exhibit Dates: 8/58-12/68.
Objectives: To train enlisted personnel, noncommissioned officers, and civilians to perform duties in a basic redistribution and marketing activity.
Instruction: Lectures and practical exercises in the duties of a redistribution and marketing specialist. Course includes receiving, classifying, and segregating property for disposal, preparing and maintaining required forms; documents, and records; preparing property for disposition, metal identification and segregation; and work in all phases of the marketing function, especially preparation and administration of contracts.
Credit Recommendation: No credit because of the limited specialized nature of the course (8/74).

AF-1405-0032
CENTRAL PROCUREMENT OFFICER
Course Number: 30ZR6531-1.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3-4 weeks (90-120 hours).
Exhibit Dates: 6/69-12/73.
Objectives: To train selected enlisted personnel as central procurement officers.
Instruction: Lectures and practical exercises in the duties of a central procurement officer. Course includes government contracting policies and procedures, purchase requests, procurement planning, documentation, procurement sources, evaluation of offers, cost and price analysis, contract award, and modification and termination.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in procurement management (12/68).
AF-1405-0038
BASE PROCUREMENT OFFICER
Course Number: 30BR6531-2
Location: Version 1: School of Applied Aerospace Sciences, Lowry AFB, CO. Version 2: 3415th Technical School, Lowry AFB, CO.

Objectives: To train officers to perform as base procurement officers.

Instruction: All Versions: Lectures and practical exercises in the fundamentals, policies, and procedures of procurement. Version 1: Course includes procurement fundamentals, formal advertising and negotiation, specialized procurement procedures and administration. Version 2: Course includes statutes and publications governing procurement, procurement and production authorities and delegations, programming, budgeting and funding, value engineering, quality assurance, disputes and appeals, formal advertising, and negotiation; procurement management; base procurement organization; for-profit procurement personnel relationship; types of base procurement contracts; and contract administration.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 3 semester hours in procurement or purchasing (8/74). Version 2: In the upper-division baccalaureate category, 5 semester hours in procurement or purchasing (8/74).

AF-1405-0039
LOGISTICS PLANNER
Course Number: 3AZR66000.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 6 weeks (156 hours).
Exhibit Dates: 7/72-12/73.

Objectives: To train enlisted personnel to serve as logistics planners for supply, maintenance, transportation, procurement, and service functions.

Instruction: Lectures and practical exercises in logistics planning for supply, maintenance, transportation, procurement, and service functions. Course includes introduction to logistics planning, programming and budgeting management of war reserve material, and mobility concepts and procedures.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in logistics (8/74).

AF-1405-0040
CHIEF OF SUPPLY MANAGEMENT
Course Number: 1012R6411
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 5/71-12/73.

Objectives: To train selected commissioned officers to perform as supply managers.

Instruction: Lectures and practical exercises in the management of supply functions. Course includes supply management responsibilities, repair cycles, bench stock, materiel families, equipment management, stock control, stock funds, data analysis, fuels and munitions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in supply management (8/74); in the upper-division baccalaureate category, 1 semester hour in supply management (8/74).

AF-1405-0041
SUPPLY INSPECTOR
Course Number: 3AZR64770.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 2 weeks (60 hours).
Exhibit Dates: 7/72-12/73.

Objectives: To train enlisted personnel to serve as base procurement officers.

Instruction: Lectures and practical exercises in supply inspection duties. Course includes identification of property, determination of property condition or status, preparation and processing of inspection reports, resolution of inspection problems, techniques of corrosion control, preservation and packaging methods, storage methods and procedures, and use of inspection tools and publications.

Credit Recommendation: No credit because of the limited specialized nature of the course (8/74).

AF-1405-0042
BASE SUPPLY TRAINER
Course Number: 3AZR64000.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 2 weeks (60 hours).
Exhibit Dates: 7/72-12/73.

Objectives: To train enlisted personnel to serve as instructors in base supply operations.

Instruction: Lectures and practical exercises in instruction techniques needed to instruct personnel in base supply operations. Course includes a study of the use of various instructional equipment, preparation of lesson plans, and an introduction to technical aspects of base supply operations.

Credit Recommendation: No credit because of the limited specialized nature of the course (8/74).

AF-1405-0043
RESEARCH AND DEVELOPMENT PROCUREMENT OFFICER
Course Number: 30BR6531-6/8
Location: School of Applied Aerospace Sciences, Lowry AFB, CO. 3415th Technical School, Lowry AFB, CO.
Length: 6-9 weeks (180-258 hours).
Exhibit Dates: 4/70-12/73.

Objectives: To train selected commissioned officers to perform duties in the procurement of research and development services.

Instruction: Lectures and practical exercises in the procurement of research and development services. Course includes fundamentals of procurement, production, planning, programming and budgeting; processing of purchase requests; evaluation of proposals and work statements; technical coordination; funding; and selection of contracts.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in research and development procurement (8/74); in the upper-division baccalaureate category, 2 semester hours in research and development procurement (8/74).

AF-1405-0044
SUPPLY SYSTEMS MANAGEMENT
Course Number: 30ZR6424-1.
Location: School of Applied Aerospace Sciences, Lowry AFB, CO. 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (75 hours).
Exhibit Dates: 10/68-12/73.

Objectives: To train enlisted personnel, enlisted personnel, and civilians to supervise base-level supply management functions.

Instruction: Lectures and practical exercises in the supervision of base-level supply management functions. Course includes an introduction to the base supply electronic data processing system, management records, processing of supplies and equipment transactions, acquisition and control of stocks, and analysis of supply management supports.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in supply management (8/74).

AF-1405-0045
1. MEDICAL MATERIEL SUPERVISOR (B-3500)
2. MEDICAL MATERIEL SUPERVISOR
3. MEDICAL MATERIEL SUPervisor

Objectives: To train enlisted personnel to perform supervisory and managerial duties in medical matériel services.

Instruction: All Versions: Lectures and practical exercises in the supervision and management of medical matériel services. Version 1: Course includes electronic data processing systems; processing and quality control of computer input and output; inventory control; inventory management; equipment control; and budgetary control. Version 2: Course includes accounting and document control; acquisition and management of medical matériel stocks; administrative practices and procedures; principles of management and personnel; and principles of effectiveness communication.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in in-
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Introduction to computer science, 3 in business administration (7/74); in the upper-division baccalaureate category, 2 semester hours in procurement management (8/74), in the lower-division baccalaureate category, 3 in business administration (7/74). Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in procurement management (8/74), in the upper-division baccalaureate category, 4 semester hours in principles of contract negotiation (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (8/74), in the upper-division baccalaureate category, 2 semester hours in supply management (12/68).

AF-1405-0046

SUPPLY SERVICES OFFICER

Course Number: OB6431.
Location: 3405th Technical School, Lowry AFB, CO.


Objectives: To train personnel as supply officers or to give supply officers advanced training.

Instruction: All Versions: Lectures and practical exercises in supply, including allied supply support, supply services, management, and basic accounting. Version 1: Topics include control of the supply system, analysis of major command management objectives, applied management principles and techniques, analysis of supply management reports and listings, interrelationships between various base support functions and base supply, relationship of base supply to national support, general techniques of internal operation for base support branches and sections, and specific techniques for management of functional areas. Version 2: Topics include control of the supply system, analysis of major command management objectives, applied management principles and techniques, analysis of supply management reports and listings, interrelationships between various base support functions and base supply, relationship of base supply to national support, general techniques of internal operation for base support branches and sections, and specific techniques for management of functional areas. Version 3: Topics include staff study reports and staff visits, supply financial management systems, supply improvement and work measurement programs, control, placement and management of Air Force assets, supply sources, prescribed storage procedures, monetary and item accounting, ground communications and electronics, management techniques, disposition of excesses and electronic data processing, operational plans and programs, budget and funding, weapon and ballistic missile support systems. Version 4: Topics include staff study reports and staff visits, supply financial management systems, supply improvement and work measurement programs, control, placement and management of Air Force assets, supply sources, prescribed storage procedures, monetary and item accounting, ground communications and electronics, management techniques, disposition of excesses and electronic data processing, operational plans and programs, budget and funding, weapon and ballistic missile support systems. Version 5: Topics include publications in supply management, inventory control, and the management process. Version 6: Topics include publications in supply management, inventory control, and the management process.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in supply management (12/68). Version 2: Topics include contract administration and termination.

AF-1405-0047

AMMUNITION OFFICER (MUNITIONS)

(AMMUNITION OFFICER)

Course Number: OBR3251A; OB3251.
Location: 3425th Technical School, Lowry AFB, CO.
Length: 8-12 weeks (240-360 hours).
Exhibit Dates: 10/54-12/68.

Objectives: To train officers as ammunition officers.

Instruction: Lectures and practical exercises in the duties of ammunition officers, including ammunition administration and management, ammunition general familiarization; CW-BW agents, munitions, and protective measures; decontamination; supply, storage, and disposal of ammunition and explosives; and nuclear weapons.

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

AF-1405-0048

PURCHASING AND CONTRACTING OFFICER

(PURCHASING AND CONTRACTING OFFICER)

Course Number: OB6441.
Location: 3450th Technical School, Lowry AFB, CO.

Objectives: To train officers and civilian personnel in purchasing and contracting.

Instruction: All Versions: Lectures and practical exercises in purchasing and contracting. Version 1: Topics include contract administration and termination.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in procurement management (8/74), in the upper-division baccalaureate category, 4 semester hours in principles of contract negotiation (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in procurement management (8/74), in the upper-division baccalaureate category, 6 semester hours in principles of contract negotiation (12/68).
degree category, 1 semester hour in supply management (8/74); in the upper-division baccalaureate category, 1 semester hour in supply management (8/74).

Version 2: To train selected enlisted personnel to perform as procurement officers. Instruction: Lectures and practical exercises in the duties of a procurement officer. Topics include procurement procedures, methods of procurement, types of contracts, contract preparation, and administrative procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in procurement management (8/74); in the upper-division baccalaureate category, 4 semester hours in principles of contract negotiation (12/68).

Version 3: To train commissioned officers to perform as procurement officers. Instruction: Lectures and practical exercises in the duties of a procurement officer. Topics include procurement procedures, methods of procurement, types of contracts, contract preparation, and administrative procedures.

Credit Recommendation: No credit because of the limited specialized nature of the course.

AF-1406-0001
1. PERSONAL AFFAIRS SPECIALIST
2. PERSONAL AFFAIRS SPECIALIST (PERSONAL AFFAIRS)

Credit Recommendation: No credit because of the limited specialized nature of the course.

AF-1406-0002
MANPOWER POLICIES AND PROCEDURES

Credit Recommendation: No credit because of the limited specialized nature of the course.

AF-1405-0055
PROCUREMENT OFFICER

Credit Recommendation: No credit because of the limited specialized nature of the course.

AF-1405-0058
CEM MATERIAL CONTROL PROCEDURES (AFCS)

Credit Recommendation: No credit because of the limited specialized nature of the course.

AF-1406-0001
1. PERSONAL AFFAIRS SPECIALIST
2. PERSONAL AFFAIRS SPECIALIST (PERSONAL AFFAIRS)

Credit Recommendation: No credit because of the limited specialized nature of the course.
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COURSE EXHIBITS

ports, manpower resource utilization, and manpower allocation and accounting systems; and management engineering.

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

AF-1406-0003

RECRUITER

Course Number: 3AZR99120.

Location: School of Applied Aerospace Sciences (ATC), Lackland AFB, TX; 3725th Technical School, Lackland AFB, TX.


Exhibit Dates: Version 1: 9/10-6/73.

Objectives: To train noncommissioned officers in the procedures and techniques of recruiting.

Instruction: Lectures in principles of recruiting, including sales techniques, record keeping, advertising principles and media, recruiting sections, public relations, speech fundamentals and practice speaking, classifying and processing applicants, eligibility requirements, and techniques in questionnaire procedures.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in public relations or marketing (2/74); in the upper-division baccalaureate category, 3 semester hours in public relations or marketing (2/74).

Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in public relations or marketing (2/74); in the upper-division baccalaureate category, 3 semester hours in public relations or marketing (2/74).

AF-1406-0004

1. MANPOWER MANAGEMENT TECHNICIAN

2. MANAGEMENT TECHNICIAN

Course Number: Version 1: AL73330.

Location: All Versions: 3310th Technical School, Lackland AFB, TX. Version 1: 37005; 3725th Technical School, Lackland AFB, TX.


Objectives: To train airmen to perform studies of management methods, organizational structures, and manpower utilization and allocation.

Instruction: All Versions: Lectures and practical exercises in analysis of organization structures, and in utilization of manpower tables, personnel methods, and management techniques. Version 1: Lectures on recruiting—management training and on management engineering techniques.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in manpower management (2/74); in the upper-division baccalaureate category, 3 semester hours in management analysis, and 2 in principles of personnel management (12/68).

Version 2: 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).

AF-1406-0005

PERSONNEL SPECIALIST


Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in salesmanship (6/74); in the upper-division baccalaureate category, 2 semester hours in public relations (6/74).

AF-1406-0007

AIR FORCE RESERVE RECRUITER

Course Number: 3AZR99120-3; 2ASR99120-1.

Location: School of Applied Aerospace Sciences, Lackland AFB, TX.

Length: 4 weeks (120-158 hours).

Exhibit Dates: 2/73-12/73.

Objectives: To train enlisted personnel to perform as Air Force Reserve recruiters.

Instruction: Lectures in Air Force Reserve recruiting. Course includes procurement programs, sales, advertising and publicity, community relations, news media, and speech fundamentals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in salesmanship principles (6/74).

AF-1406-0008

1. PILOT INSTRUCTOR TRAINING (T-33) (PILOT INSTRUCTOR TRAINING (BASIC)) (PILOT INSTRUCTOR TRAINING - SINGLE-ENGINE JET)

2. SINGLE-ENGINE JET

Course Number: Version 1: F111500Q. Version 2: F111500Q; F113500Q; F1120800.

Location: Air Training Command, Randolph AFB, TX; Air Training Command, Craig AFB, AL.


Objectives: To train rated pilots to perform as pilot instructors for undergraduate or single-engine jet.

Instruction: Lectures and practical exercises in pilot instruction procedures, including principles of learning, specific equipment engineering, indoctrination, flight planning, techniques of instructing instrument flying, contract or transition, and formation flying and navigation.

Credit Recommendation: Version 1: In the lower-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68). Version 2: In the lower-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0009

INSTRUMENT PILOT INSTRUCTOR TRAINING

(T-38)

Course Number: 11115008.

Location: Air Training Command, Randolph AFB, TX.

Length: 8-9 weeks (228-308 hours).

Exhibit Dates: 1/54-12/68.

Objectives: To train instrument pilots to perform as pilot instructors for instrument training.

Instruction: Lectures in instrument training procedures, including principles of learning, specific equipment engineering, radio aids to instrument navigation, flight planning, techniques of instructing instrument flying, contract or transition, and formation flying and navigation.

Credit Recommendation: In the lower-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).
AF-1406-0010
PILOT INSTRUCTOR TRAINING (T-38)
Course Number: All Versions: F-VSC-B.
Location: Air Training Command, Randolph AFB, TX.
Length: Version 1: 13 weeks (210 hours).
Exhibit Dates: Version 1: 3/65-12/68.
Objectives: To train pilots as instrument instructors in supersonic fighter-type jet aircraft.
Instruction: Lectures and practical exercises in instrument instruction procedures in supersonic fighter-type jet aircraft, including fundamentals of instruction, flight instruments, navigation aids, computer, weather, and flying and ground training.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in instruction methods (6/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in teaching methods (6/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0013
INTERCEPTOR WEAPONS INSTRUCTOR SCHOOL (F-94C)
Course Number: 112401.
Location: Air Training Command, Randolph AFB, TX.
Length: 10 weeks (312 hours).
Exhibit Dates: 5/4-12/68.
Objectives: To train interceptor pilots to operate and employ interceptor weapons.
Instruction: Lectures and practical exercises in instruction methods for interceptor weapon training. Topics include fighter, interceptor tactics, navigation, and instructions on equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in instructional methods (6/74); in the upper-division baccalaureate/associate degree category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0014
INTERCEPTOR WEAPONS INSTRUCTOR SCHOOL (F-89D)
Course Number: 112402.
Location: Air Training Command, Luke AFB, AZ.
Length: 10 weeks (306-32 hours).
Exhibit Dates: 5/4-12/68.
Objectives: To train pilots as instrument instructors.
Instruction: Lectures and practical exercises in instruction techniques related to training of interceptor weapons. Topics include fighter tactics, formations, weather, navigation, and weapons on specific aircraft.
Credit Recommendation: In the upper-division baccalaureate/associate degree category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0015
PILOT INSTRUCTOR TRAINING (T-28)
Location: Version 1: Air Training Command, Randolph AFB, TX.
Version 2: Air Training Command, Moody AFB, GA.
Objectives: To train rated pilots as instrument instructors in undergraduate training, and in T-28 aircraft.
Instruction: Lectures and practical exercises in instruction methods on the basis of institutional evaluation (12/68).

AF-1406-0016
HELICOPTER PILOT INSTRUCTOR TRAINING (H-19/H-21)
Course Number: F102401.
Location: Air Training Command, Stead AFB, NV.
Length: 5 weeks (138 hours).
Exhibit Dates: 6/61-12/68.
Objectives: To train helicopter pilots as flight instructors in single- and/or tandem-rotor aircraft.
Instruction: Lectures and practical exercises in helicopter pilot instruction. Topics include fundamentals of instruction, psychology of instruction, evaluation, lesson planning, and practice teaching.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in instruction methods (6/74); in the upper-division baccalaureate/associate degree category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0017
FIGHTER WEAPONS INSTRUCTOR
Course Number: G-112400A.
Location: Air Training Command, Luke AFB, AZ.
Length: 12 weeks (517 hours).
Exhibit Dates: 8/55-12/68.
Objectives: To qualify fighter pilots as weapons instructors.
Instruction: Lectures and practical exercises in fighter, weapon systems, and special weapons. Academic training includes harmonization, aural training, film assessment, weapons, ground attack, training equipment, flight techniques, instruction, practice teaching, and special weapons.
Credit Recommendation: In the upper-division baccalaureate/associate degree category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0018
INSTRUMENT PILOT INSTRUCTOR TRAINING (T-38)
Course Number: F-VSC-A.
Location: Air Training Command, Randolph AFB, TX.
Length: 6 weeks (195 hours).
Exhibit Dates: 7/73-Present.
Objectives: To train pilots as instrument flight instructors, instrument flight examiners, and instrument standardization officers.
Instruction: Lectures and practical exercises in instrument pilot instruction.
Course Exibits

Topics include principles of instruction and evaluation, practice teaching, navigational aids, research and development, spatial disorientation, special problem solving, flight instruments, regulations and publications, and weather.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in teacher education (6/74).

AF-1406-0019

Instrument Pilot Instructor Training (T-29)

(USAF Instrument Pilot Instructor Training (Reciprocating))

(USAF Instrument Pilot Instructor Training (Reciprocating Engine))

(USAF Instrument Pilot Instructor, Conventional (B-25))

Course Number: 1-104500F; 1-104100F; 1-121100P; 1-1121100P.

Location: Air Training Command, Randolph AFB, TX; Air Training Command, James Connally AFB, TX; Air Training Command, Moody AFB, GA.

Length: 8-10 weeks (263-329 hours).

Exhibit Dates: 7/54-12/68.

Objectives: To qualify pilots as instrument instructors in specific aircraft.

Instruction: Lectures and practical exercises on instrument pilot instructor training, including flight instruments, navigational aids, methods, and procedures; flight weather; flying training subjects; fundamentals of instruction; practice teaching; computers; regulations and publications; and pilot shorthand.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in teacher education (6/74); in the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0020

Instrument Pilot Instructor Training (T-33)

(USAF Instrument Pilot Instructor Training (Jet))

Course Number: 1-111500Q; 1-112100Q.

Location: Air Training Command, Randolph AFB, TX; Air Training Command, James Connally AFB, TX; Air Training Command, Moody AFB, GA.

Length: 6-10 weeks (208-272 hours).

Exhibit Dates: 7/54-12/68.

Objectives: To qualify pilots as instrument instructors in jet aircraft.

Instruction: Lectures and practical exercises on instrument pilot instructor training, including flight instruments, navigational methods, aids, and procedures; flight weather; flying training subjects; fundamentals of instruction; practice teaching; computers; and regulations and publications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in teaching fundamentals (6/74); in the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0021

Instrument Pilot Instructor Training (T-37)

Course Number: All Versions: F-VSA-A

Version 2: F111507Q

Location: Air Training Command, Randolph AFB, TX; Air Training Command, Perrin AFB, TX; Air Training Command, James Connally AFB, TX; Air Training Command, Williams AFB, AZ.


Version 2: 9-11 weeks (192-224 hours).

Exhibit Dates: Version 1: 2/77-1/73.

Version 2: 2/66-1/73.

Objectives: To train pilots as flight instructors in jet aircraft.

Instruction: Lectures and practical exercises in methods of instruction, grading and testing techniques, aircraft systems, applied aerodynamics, flight planning, flying safety, base management system, and contact, instrument, and formation flying.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in instructional methods (6/75); Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in instructional methods (6/74); in the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0023

Technical Instructor

Course Number: 5AIK75100.

Location: Security Service School, Goodfellow AFB, TX.

Length: Version 1: 16 weeks (480 hours).

Version 2: 12 weeks (372 hours).

Exhibit Dates: Version 1: 4/71-12/73.


Objectives: To train newly assigned instructor personnel to perform classroom instruction.

Instruction: Lectures and practical exercises in instructional methods. Course includes principles of learning, communication skills, instructional aids, evaluation techniques, instructional management, and a wide range of material in the psychology and philosophy of education.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in tests and measurement, 6 in instructional methods (7/74); in the upper-division baccalaureate category, 2 semester hours in instructional methods (7/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in instructional methods (7/74); in the upper-division baccalaureate category, 2 semester hours in instructional methods (12/68).

AF-1406-0024

1. Instructional Systems Materials Development (Instructional Programmer)

2. Instructional Programmer

Course Number: Version 1: 3AZR75100.

Version 2: AZR75100.


Length: 5 weeks (150 hours).

Exhibit Dates: Version 1: 7/11-12/73.

Version 2: 1/65-12/73.

Objectives: To train airmen and officers in instructional systems technology.


Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 10 semester hours in instructional technology with emphasis on programmed instruction (7/74); in the upper-division baccalaureate category, 10 semester hours in instructional technology with emphasis on programmed instruction (7/74); Version 2: In the lower-division baccalaureate/associate degree category, 8 semester hours in instructional technology with emphasis on programmed instruction (7/74); in the upper-division baccalaureate category, 2 semester hours in instructional programming in the field of teacher education (12/68).

AF-1406-0026

Instructor Management Training

Course Number: ATS73371.

Location: 3505th Technical School, Greenville AFB, MS.

Length: 4 weeks (120 hours).

Exhibit Dates: 8/62-12/68.

Objectives: To train airmen as management instructors.

Instruction: Lectures and practical exercises in the instruction of management courses, including speech and communications, motivation, types of training aids, question techniques, interviewing, and counseling, conference methods and techniques, principles of course organization, lesson planning, measurement, and evaluation procedures, and management for supervisors.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in instructional methods on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1406-0027

OTS Instructor Training

Course Number: 3AIR0904-1.

Location: Officer Training School, Lackland AFB, TX.

Length: 3 weeks (80-98 hours).

Exhibit Dates: 6/69-12/73.

Objectives: To train officers as instructors for officer training school.

Instruction: Lectures and practical exercises in the duties of instructors for officer training schools, including psychology of learning, communications, practice teaching using lectures, discussion and demonstration/performance methods, met
sumenment and evaluation procedures, sports refereeing, and school administrative procedures.

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

AF-1406-0028

MULTI-MEDIA TEACHING SYSTEM (DEVELOPMENT)

Course Number: 3AZR75173-1.
Location: Training Center, Lackland AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 9/69–12/73.

Objectives: To train enlisted personnel as traffic safety assistants capable of using multimedia teaching systems.

Instruction: Lectures and practical exercises in preparation of multimedia training materials for traffic safety courses, including curriculum analysis, learning objectives, teaching points and sequencing of teaching points, preparation of visual aids, selection of visual aids, script and audio track preparation, and visual assembly.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in instructional media methodology on the basis of instructional evaluation (7/74); in the upper-division baccalaureate category, 6 semester hours in instructional media methodology on the basis of instructional evaluation (7/74).

AF-1406-0029

INSTRUMENT PILOT INSTRUCTOR (HELICOPTER)

Course Number: F-V5G-G.
Location: Air Training Command, Randolph AFB, TX.
Length: 6 weeks (188–195 hours).
Exhibit Dates: 8/72–Present.

Objectives: To train rated helicopter pilots to perform as instrument flight instructors.

Instruction: Lectures and practical exercises in instrument flight instruction techniques and procedures. Course includes principles of instruction/evaluation, navigational aids, weather, and FAA regulations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in teacher education (7/74).

AF-1406-0030

TECHNICAL INSTRUCTOR

Course Number: Version 1: 3AIR75100-X; 3AIR75100-2; 3AIR75100-4; 3AIR75100-5; 3AIR75100-6. Version 2: 3AIR75100-A; AIR75100-1; AIR75100-2; AIR75100-3; AIR75100-4; AIR75100-6; IT75100-1; IT75100-4; IT75100-5; IT75100-6.
Location: Technical School, Lowry AFB, CO; Technical School, Lackland AFB, TX; Technical School, Amarillo AFB, TX; Technical School, Warren AFB, WY; Technical School, Parks AFB, CA; Technical School, Sheppard AFB, TX; Technical School, Keesler AFB, MS; Technical School, Scott AFB, IL; Technical School, Chanute AFB, IL; Technical School, Randolph AFB, TX.

Objectives: To train enlisted personnel as technical instructors.

Instruction: All Versions: Lectures and practical exercises in instructional methods and techniques, including communication, learning principles, developmental teaching concepts, preparing objectives and lessons, various methods of teaching, instructional aids, counseling, testing procedures, study techniques, and administration and practice teaching. Version 1: Includes programmed instruction.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in observation and methodology, 2 in instructional technology, and 3 in practice teaching (7/74); in the upper-division baccalaureate category, 3 semester hours in observation and methodology, 2 in instructional technology, and 3 in practice teaching (7/74). Version 2: In the upper-division baccalaureate/associate degree category, 2 semester hours in instructional methods (12/68).

AF-1406-0031

PERSONNEL STAFF OFFICER

Course Number: 3OAR7311-1; OAR7311.
Location: Technical School, Keesler AFB, MS; 3320th Technical School, Amarillo AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 9/67–12/73.

Objectives: To train personnel staff officers to manage personnel and to perform personnel functions.

Instruction: Lectures and practical exercises in personnel management. Topics include human relations and management, personnel data processing, planning, and programmed, performance evaluation systems, and military-related personnel subjects.

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

AF-1406-0032

1. MANPOWER ALLOCATION AND ACCOUNTING SYSTEM (MAAS) (MAJCOM MANPOWER PROCEDURES)

2. MAJOR COMMAND (MAJCOM) MANPOWER PROCEDURES

3. MAJOR COMMAND (MAJCOM) MANPOWER PROCEDURES


Objectives: To train enlisted personnel as manpower specialists.

AF-1406-0033

PROFESSIONAL PERSONNEL MANAGEMENT

Course Number: None.
Location: Air University, Maxwell AFB, AL.
Length: 6 weeks (248 hours).
Exhibit Dates: 6/66–12/68.

Objectives: To train senior personnel in advanced management techniques.

Instruction: Lectures and practical exercises in the skills necessary to manage and handle facets of personnel management. Course includes Department of Defense management environment, management processes, human relations, management systems and quantitative methods, and personnel processed.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in personnel management (12/68).

AF-1406-0034

ACADEMIC INSTRUCTOR

Course Number: None.
Location: Air University, Maxwell AFB, AL.

Objectives: To train commissioned officers to improve their effectiveness as academic instructors.

Instruction: Lectures and practical exercises in the improvement of academic instruction techniques. Course includes educational foundations and philosophy, communication techniques, test and measurement, educational methodology, instructional technology, and instructional television.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in communication techniques, 4 in educational methodology, 2 in instructional technology, 2 in tests and measurements, 3 in instructional television (7/74), in the upper-division baccalaureate category, 3 semester hours in instructional methods (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in educational foundations and philosophy, 1 in communication techniques, 1 in tests and measurement, 5 in educational methodology, 2 in instruc-
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COURSE EXHIBITS

tional technology, 3 in instructional television (7/74); in the upper-division baccalaureate category, 3 semester hours in instructional methods (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in educational foundations and philosophy (7/74); in the upper-division baccalaureate category, 3 semester hours in instruction (8/74); in the upper-division baccalaureate category, 3 semester hours in instructional methods (12/68).

AF-1406-0035 MANPOWER MANAGEMENT OFFICER

Course Number: QL7331.
Location: 3310th Technical School, Scott AFB, IL.
Length: 9 weeks (262 hours).
Exhibit Dates: 12/54-12/68.
Objectives: To train selected officers and civilians to perform as manpower managers.
Instruction: Lectures and practical exercises in the duties of a manpower manager.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in manpower management methods (8/74); in the upper-division baccalaureate category, 3 semester hours in manpower management methods (12/68).

AF-1406-0036 PERSONNEL OFFICER

Course Number: Version 1: 30BR7321.
Location: 3310th Technical School, Scott AFB, IL.
Length: 5 weeks (128 hours).
Exhibit Dates: 1/51-7/66.
Objectives: To train selected personnel to perform the duties of a personnel officer.
Instruction: Lectures and practical exercises in the management of recruitment activities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in salesmanship (12/68); in the upper-division baccalaureate category, 1 semester hour in salesmanship (8/74).

AF-1406-0037 USAF RECRUITING OFFICER

Course Number: 3QZ/0902.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 3 weeks (90-118 hours).
Exhibit Dates: 4/73-12/73.
Objectives: To train selected commissioned officers to perform recruiting activities.
Instruction: Lectures and practical exercises in the management of recruiting activities. Course includes salesmanship, sales management, sales training, and sales promotion.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in salesmanship (12/68); in the upper-division baccalaureate category, 1 semester hour in salesmanship (8/74).

AF-1406-0038 AIR NATIONAL GUARD RECRUITER

Course Number: 3AZR9191-20.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 7/73-12/73.
Objectives: To train commissioned and noncommissioned officers to perform the duties of a recruiting officer.
Instruction: Lectures and practical exercises in the management of personnel into the armed services. Course includes speech fundamentals, sales fundamentals, practice selling, community relations, advertising and publicity, eligibility requirements, and processing and classification.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in salesmanship (8/74); in the upper-division baccalaureate category, 1 semester hour in salesmanship (8/74).

AF-1406-0039

1. ATC INSTRUCTOR TRAINING (NAVIGATOR)

AF-1406-0041

ATC INSTRUCTOR TRAINING

Course Number: S-V8D-A.
Location: Air Training Command, Randolph AFB, TX. Length: 3-4 weeks (96-108 hours).

Exhibit Dates: 1/75-Present.

Objectives: To train technically qualified personnel to teach and supervise the instruction of academic and technical subjects.

Instruction: Lectures and practical exercises in course curriculum development; psychology of learning; communications; methods and techniques of instruction; practice teaching; and grading techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in teacher education (6/75); in the upper-division baccalaureate category, 2 semester hours in teacher education (6/75).

AF-1407-0001

CHAPLAIN MANAGEMENT SPECIALIST

Course Number: 3ABRR70130.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 9 weeks (270 hours).

Exhibit Dates: 5/72-12/73.

Objectives: To train enlisted personnel to assist chaplains in religious and administrative duties.

Instruction: Lectures and practical exercises in religious and educational programs and facilities, ecclesiastical equipment, audio-visual aids, chapel receptionist, reports and files, publicity, resource management, and typing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in Typing I on the basis of proficiency evaluation, 3 in office practice and procedures (3/74).

AF-1407-0002

STENOGRAPHIC SPECIALIST

Course Number: 3ALR70430.
Location: 3360th Technical School, Keesler AFB, MS.
Length: 14 weeks (420 hours).

Exhibit Dates: 5/72-12/73.

Objectives: To train airmen as stenographic specialists.

Instruction: Lectures and practical exercises in typing, shorthand, English grammar, proofreading, editing, and report writing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in stenography on the basis of proficiency evaluation, 3 in office practice and procedures (3/74).

AF-1408-0001

DEFENSE COST PRICE ANALYSIS

Course Number: 141.
Location: School of Systems and Logistics, Wright-Patterson AFB, OH.
Length: 2 weeks (69 hours).

Exhibit Dates: 3/73-Present.

Objectives: To train procurement management personnel in the basic principles of cost and price analysis.

Instruction: Lectures in the basic principles of cost and price analysis, including critical path, breaking down critical paths, factors affecting price, negotiation strategy, management policies and procedures, and the weighted-guideline technique of profit analysis.

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

AF-1408-0002

FINANCIAL ADMINISTRATION

Course Number: 30AR6711.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 11 weeks (342 hours).

Exhibit Dates: 7/72-12/73.

Objectives: To train career officers and key civilian personnel for positions in financial administration.

Instruction: Lectures on management theory, planning, programming, and budgeting systems; quantitative analysis techniques; resource management accounting systems; and automated systems.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours in financial administration (2/74).

AF-1408-0003

DEFENSE CONTRACT PRICING TECHNIQUES

Course Number: 142.
Location: School of Systems and Logistics, Maxwell AFB, AL.
Length: 4 weeks (120 hours).

Exhibit Dates: 9/71-Present.

Objectives: To provide selected military and civilian personnel with the analytical tools and techniques required to apply economics and statistics to cost-price problems in procurement.

Instruction: Lectures on quantitative review, cost/volume/profit analysis, cost element analysis; make or buy determinations; profit analysis; contract pricing arrangements.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business economics (12/68).

AF-1408-0004

PROFESSIONAL MILITARY COMPTROLLER

Course Number: None.
Location: Institute for Professional Development, Maxwell AFB, AL.


Objectives: To train officers to serve as comptrollers or resource managers.

Instruction: Lectures, seminars and case studies in economics, finance, managerial accounting, human relations, computer management including theories and concepts relating to research techniques, executive expression, quantitative methods and resource management. Programs include individual research and application of computer techniques in the subject areas of budgeting.

Credit Recommendation: Version 1: In the upper-division baccalaureate category. 19 semester hours in business administration (2/74); in the graduate degree category, 3 semester hours in organizational management, 3 in financial and economic analysis (4/76). Version 2: In the upper-division baccalaureate category, 5 semester hours in business administration (2/74).
AF-1408-0009

1. MANAGEMENT ANALYSIS SPECIALIST
2. MANAGEMENT ANALYSIS SPECIALIST
3. MANAGEMENT ANALYSIS TECHNICAL


School: School of Applied Aerospace Sciences, Sheppard AFB, TX. 3750th Technical School, Sheppard AFB, TX.


Objectives: To provide enlisted personnel with basic training in management analysis. Instruction: Lectures and practical exercises in management concepts and techniques, including program, progress, management, statistical, and financial analysis, and application of analytical methods to decisive areas.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in office machines, 3 in communication skills (2/74); in the upper-division baccalaureate category, 3 semester hours in basic statistics, 2 in applied statistical analysis (2/74). Version 2: In the upper-division baccalaureate category, 2 semester hours in basic statistics, 2 in financial analysis, 2 in applied management analysis (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 1 semester hour in oral/written communication (2/74); in the upper-division baccalaureate category, 1 semester hour in oral/written communication, 5 in financial analysis, 3 in applied management analysis (12/68).

AF-1408-0010

QUANTITATIVE METHODS FOR ADVANCED PROCUREMENT PRICING

Course Number: 144

Location: School of Systems and Logistics, Wright-Patterson AFB, OH.

Length: Version 1: 60 hours. Version 2: 9 weeks (60 hours).

Exhibit Dates: 1/73-Present.

Objectives: To provide experienced procurement officers with advanced training in applied statistical analysis.

Instruction: Lectures in statistical analysis as applied to advanced procurement-pricing techniques, including fundamentals of computer programming, systems analysis, sampling techniques, curvilinear regression and multiple regression analysis, and statistics and mathematics review.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in applied statistics (2/74); in the upper-division baccalaureate category, 1 semester hour in applied statistics (2/74).

AF-1408-0011

DEFENSE WEAPONS SYSTEMS MANAGEMENT

Course Number: None.

Location: Air Force Institute of Technology, Wright-Patterson AFB, OH.

Length: 10 weeks (250 hours).

Exhibit Dates: 1/64-12/73.

Objectives: To provide senior military and civilian personnel with knowledge of the concepts, principles, and practices involved in the design, engineering, acquisition, and support of major weapon systems.

Instruction: Lectures on the functions of national defense weapon systems; planning for system design, selection, and acquisition; contract definition and procurement policies, and management of acquisition and support, including design control, engineering, testing, production, logistics and support services, contract administration, and cost management and control.

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

AF-1408-0012

MANAGEMENT ENGINEERING SPECIALIST


Objectives: To train enlisted personnel as management engineering specialists.

Instruction: Lectures in mathematics, statistics, abstract processing, queuing theory, motion study and time study, work sampling and simplification procedures, human relations, and correlation and regression analysis.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 5 semester hours in industrial management (2/74); in the upper-division baccalaureate category, 5 semester hours in industrial management (2/74). Version 2: In the lower-division baccalaureate/associate degree category, 5 semester hour in statistics (2/74); in the upper-division baccalaureate category, 3 semester hours in statistics (12/68).

AF-1408-0013

MAINTENANCE MANAGEMENT AND INFORMATION SYSTEMS

Course Number: 210.

Location: School of Systems and Logistics, Wright-Patterson AFB, OH.

Length: 3 weeks (104-120 hours).

Exhibit Dates: 4/69-Present.

Objectives: To provide maintenance managers with supplementary training in maintenance management and information systems.

Instruction: Lectures and practical exercises in maintenance management and information systems, including maintenance policies and requirements, management concepts and research procedures, maintenance management information systems, financial management systems, data processing and computer logic, and quantity theory.

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 (12/68).

AF-1408-0014

PRODUCTION MANAGEMENT II (ADVANCED PRODUCTION MANAGEMENT)

Course Number: 279.

Location: School of Systems and Logistics, Wright-Patterson AFB, OH.

Length: 3 weeks (157 hours).

Exhibit Dates: 12/69-Present.

Objectives: To provide production personnel with advanced training in defense production management.

Instruction: Lectures and seminars in the principles of production management, production technology, procurement, problem and decision analysis techniques, and analysis of current management policy.

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

AF-1408-0015

STATISTICAL SERVICES SUPERVISOR


Objectives: To train airmen in the organization, management, and supervision of statistical services activities.

Instruction: Lectures and practical exercises in an introduction to statistical services, methods of statistical analysis and presentation, personnel reporting, and material and operations control.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in business organization/statistical analysis (12/54).

AF-1408-0016

ADVANCED COST AND ECONOMIC ANALYSIS

Course Number: 191.

Location: School of Systems and Logistics, Wright-Patterson AFB, OH.

Length: 4-7 weeks (117-120 hours).

Exhibit Dates: 3/69-Present.

Objectives: To provide experienced cost analysts with specialized training in advanced economic analysis.

Instruction: Lectures and practical exercises in mathematics and statistics, use of regression and regression models, aircraft systems cost estimation, sensitivity analysis, problems of airlift and sealift, and cost effectiveness techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in cost analysis (2/74); in the upper-division baccalaureate category, 2 semester hours in cost analysis (12/68).

AF-1408-0017

BUDGET SPECIALIST


Exhibit Dates: 12/53-1/55.

Objectives: To provide enlisted personnel with training in budgeting techniques and procedures.

Instruction: Lectures and seminars in budgeting theory, motion study and time study, work sampling and simplification procedures, human relations, and correlation and regression analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in budgeting theory, motion study and time study, work sampling and simplification procedures, human relations, and correlation and regression analysis (12/68).

Exhibit Dates: 3/69-Present.
All Versions: 3750th Technical School, Sheppard AFB, TX.


Objectives: To train airmen in budgeting, financial planning, and financial management for Air Force personnel.

Instruction: Lectures and practical exercises in the fundamentals of Air Force budgeting, principles and procedures of budget administration, developing estimates of requirements, and preparation of operating budgets and financial plans.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in disbursing and financial administration (2/74); in the upper-division baccalaureate category, 3 semester hours in budgeting and financial administration (2/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in disbursing and financial administration (2/74); in the upper-division baccalaureate category, 4 semester hours in finance and budget planning (12/68).

AF-1408-0018
DISBURSING SUPERVISOR
Course Number: AA81170.
Location: 3415th Technical Training Center, Lowry AFB, CO.
Length: 13 weeks (390 hours).
Exhibit Dates: 3/31-12/68.
Objectives: To train enlisted personnel to supervise disbursing activities.
Instruction: Lectures in the duties of a disbursing supervisor. Course includes introduction to disbursing, military pay, travel allowances, commercial accounts, accounting for public funds, and financial office management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in funds disbursement (2/74); in the upper-division baccalaureate category, 4 semester hours in finance and budget planning (12/68).

AF-1408-0019
DISBURSING CLERK
Course Number: AB81130.
Location: 3415th Technical Training Group, Lowry AFB, CO.
Length: 10 weeks (300 hours).
Exhibit Dates: 3/54-12/68.
Objectives: To train enlisted personnel in disbursing and accounting procedures.
Instruction: Lectures in the duties of a disbursing clerk. Course includes introduction to disbursing, military pay, travel allowances, commercial accounts, accounting for public funds, and financial office management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in disbursing (2/74); in the upper-division baccalaureate category, 3 semester hours in general business practice (12/68).

AF-1408-0020
HEATING PLANT MANAGEMENT AND SUPERVISION
Course Number: AANS4770-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 4 weeks (108 hours).
Exhibit Dates: 3/67-12/68.

Objectives: To provide skills for the supervision and management of a heating plant.
Instruction: Principles and procedures employed in heating plant supervision and management are taught, including operation and maintenance of common combustion equipment, heating plant management and combustion principles, boiler water sampling, testing, treatment, scale and corrosion control in steam and high-temperature hot water heating plants and systems, and organizational control, including workload evaluation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in heating plant supervision and management (11/77).

PHASE II SYSTEMS MANAGEMENT
Course Number: 302015.
Location: School of Applied Aerospace Sciences, Wright-Patterson AFB, TX.
Length: 2 weeks (60 hours).
Exhibit Dates: 2/55-12/68.

Objectives: To prepare qualified data processing installation managers and machine room supervisors as B 3500 computer operations systems managers.
Instruction: Lectures and practical exercises in B 3500 data processing installation concepts, B 3500 system, B 3500 leaders and utilities, on-line systems management, and management problems.
COURSE EXHIBITS.

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

AF-1408-0028
ADVANCED PERSONNEL OFFICER
Course Number: OAT7311.
Location: 3345th Technical School, Scott AFB, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 10/54-12/68.

Objectives: To provide officers with advanced training in personnel administration.

Instruction: Lectures on human relations, oral and written communications, personnel management, including evaluation, training, separations, promotions, classifications, interviewing, and counseling.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1408-0032
MAINTENANCE SCHEDULING SPECIALIST
Course Number: All Versions: ALR43330.
Location: Chanute AFB, IL.
Length: Version 1: 8 weeks (240 hours).
Version 2: 8-10 weeks (240-288 hours).
Exhibit Dates: Version 1: 5/70-12/73.

Objectives: To train airmen in the maintenance management functions of planning, scheduling, and control.

Instruction: Lectures and practical exercises in maintenance control mathematics; data systems; forecasting; operational support requirements and projecting capabilities; shop scheduling; controlling workload requirements; aerospace vehicle and equipment status reporting; and maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management (2/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in maintenance management (2/74); in the upper-division baccalaureate category, 6 semester hours in maintenance management (12/68).

AF-1408-0038
CONTRACT ADMINISTRATION
Course Number: Version 1: 3AZR65170-1.
Version 2: 3AZR65170-2.
Location: Version 1: Chanute AFB; Version 2: Chanute AFB.

Objectives: To provide procurement personnel with advanced training in the principles and practices of government contracting and contract administration.

Instruction: Lectures on principles of government contracting, basic for administration, contract administration procedures, contract cost principles and procedures, and tools of administration.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of contracting (2/74); in the upper-division baccalaureate category, 3 semester hours in principles of contracting (2/74).
Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of contracting (2/74); in the upper-division baccalaureate category, 2 semester hours in principles of contracting (12/68). Version 3: In the lower-division/associate degree category, 3 semester hours in principles of contracting (2/74); in the upper-division baccalaureate category, 3 semester hours in principles of contracting (12/68).

AF-1408-0034
PROCUREMENT SUPERVISOR
Course Number: Version 1: 3AZR65170-1.
Version 2: 3AZR65170-2.
Location: Version 1: Chanute AFB; Version 2: Chanute AFB.

Objectives: To train first-line supervisors and technicians to conduct and supervise procurement operations.

Instruction: Lectures and practical exercises in contract administration, advertising, personnel planning and scheduling, and technical procurement performance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in procurement policies (2/74); in the upper-division baccalaureate category, 3 semester hours in procurement policies (12/68).

AF-1408-0035
WORK CONTROL SPECIALIST
Course Number: ALR55630.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 5 weeks (150 hours).
Exhibit Dates: 8/65-12/68.

Objectives: To train enlisted personnel to perform as work control specialists.

Instruction: Lectures and practical exercises in supervision and management of work control centers; planning and scheduling procedures; publications and forms; preventive maintenance; service calls; and planning of annual maintenance and repair programs.

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

AF-1408-0036
WORKLOAD CONTROL
Course Number: AZR43217.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 5/62-12/68.

Objectives: To train airmen and civilians in the functions and procedures of workload control and maintenance.

Instruction: Lectures and practical exercises in maintenance management, workload processing and control, utilization of maintenance reports, dispatching of equipment.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1408-0037
CONTRACT MANAGEMENT
Course Number: 3OZR6531-2.
AF-1408-0042

**CONTRACT LAW**

Course Number: 3AZR65170-5.
Location: 54th Technical School, Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/69-12/73.

Objectives: To provide procurement personnel with advanced training in legal principles related to government contracts.

Instruction: Lectures on contract law, labor law, law of agencies, governmental procurement, methods and procedures, disputes and remedies, and terminations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in business law/contracts (2/74); in the upper-division baccalaureate category, 2 semester hours in business law/contracts (2/74).

AF-1408-0043

**MEDICAL ADMINISTRATIVE SUPERVISOR**

Course Number: Version 1: 3AAR90670-1.

Location: Version 1: 9th Technical Training Center, Sheppard AFB, TX. Version 2: Medical Service School, Sheppard AFB, TX. Version 3: Medical Service School, Gunter AFB, AL. Version 4: School of Aviation Medicine, Gunter AFB, AL.


Objectives: To provide airman with supervisory-level training in medical administration.

Instruction: Lectures on planning and scheduling of administrative work in medical services activities, supervision of medical administrative personnel, conducting on-the-job training for medical administrative personnel, and the performance of technical, medical administrative functions.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in medical administration (2/74); in the upper-division baccalaureate category, 2 semester hours in medical administration (12/68).

AF-1408-0044

**WEATHER CHIEF OBSERVER**

Course Number: 3AZR25271.


Length: 4-5 weeks (120–148 hours).
Exhibit Dates: 3/67-12/73.

Objectives: To train enlisted personnel to manage and administrate chapel facilities and resources.

Instruction: Lectures in chapel facilities management and administration, including written communications, records management, facilities scheduling and control, personnel supervision, problem-solving techniques, facilities and grounds maintenance, and financial planning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in office management (6/74).

AF-1408-0045

**PROGRAMS AND WORK CONTROL TECHNICIAN (BEAMS)**

Course Number: 2A5R55570.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 2 weeks (81 hours).
Exhibit Dates: 2/73-12/73.

Objectives: To train personnel to perform as programs and work control technicians.

Instruction: Lectures and practical exercises in programs and work control, including base computer automated management system, remote-device operating procedures, BEAMS labor subsystem file maintenance, BEAMS work control subsystem file maintenance, BEAMS cost-accounting subsystem files, and BEAMS total programing subsystem file maintenance.

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

AF-1408-0046

**CHAPEL MANAGEMENT TECHNICIAN (CHAPEL SERVICES SUPERVISOR)**

Course Number: 3AZR70170.


Length: 4-5 weeks (120–148 hours).
Exhibit Dates: 3/67-12/73.

Objectives: To train enlisted personnel to manage and administrate chapel facilities and resources.

Instruction: Lectures in chapel facilities management and administration, including written communications, records management, facilities scheduling and control, personnel supervision, problem-solving techniques, facilities and grounds maintenance, and financial planning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in office management (6/74).
AF-1408-0047

COMMUNICATIONS-ELECTRONICS PROGRAMMING (STAFF OFFICER)

Location: 3380th Technical School, Keesler AFB, MS.

Length: 2 weeks (60 hours).

Exhibit Dates: 9/69-12/73.

Objectives: To train enlisted personnel in communications-electronics programming.

Instruction: Lectures in the understanding and use of communications-electronics programming. Course includes national and military planning, command process of planning, budgetary and military construction programs, manpower and defense communication agency, and communications-electronics implementation plans and exercises.

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

AF-1408-0048

COMMUNICATIONS-ELECTRONICS STAFF OFFICER (COMMUNICATIONS-ELECTRONICS OFFICER)

Course Number: OAR3011; OA3011.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 25-34 weeks (870-1292 hours).

Exhibit Dates: 1/56-12/68.

Objectives: To train officers to operate and monitor communications-electronics programs and to formulate policies and procedures.

Instruction: Lectures and seminars in radioelectronics, staff management, wire and multiplexing systems, automatic data systems, supply and maintenance techniques, tactical and electronic warfare, equipment, project management, communications, leadership, logistics management, communications techniques, and human relations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in management principles, effective communication, logistics management, and management Informational systems. Version 3: Instruction includes weapons and armament systems development, employment, control, and support.

Credit Recommendation: Version 1. In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of management (6/74); in the upper-division baccalaureate category, 2 semester hours in principles of management (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles of management (6/74). Version 3: No credit because of the military nature of the course (12/68).

AF-1408-0050

COMMUNICATIONS-ELECTRONICS PROGRAMMING MANAGEMENT

Course Number: 3AZR70270.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 7 weeks (192-210 hours).

Exhibit Dates: 7/70-12/73.

Objectives: To train officers, civilians, and noncommissioned officers in communications-electronics programming, planning, and budgeting.

Instruction: Lectures and practical exercises in communications-electronics programs management, including planning and programming, manpower, and budgeting; construction planning; wire communications program; standard requirements; and other lower-division baccalaureate/associate degree category, 2 semester hours in principles of management (6/74). Credit Recommendation: No credit because of the military nature of the course (12/68).

AF-1408-0051

CONTRACT MANAGEMENT OFFICER

Course Number: 3OSR6531-4.

Location: 3415th Technical School, Lowry AFB, CO; 3415th Technical School, Lowry AFB, CO.

Length: 6-9 weeks (180-270 hours).

Exhibit Dates: 4/70-Present.

Objectives: To train officers to perform as contract managers.

Instruction: Lectures and practical exercises in contract management. Course includes fundamentals of procurement and production, contract administrative responsibilities, development of contracting, quality assurance procedures; production planning, evaluation of work statements, contractor's proposals in support of system procurements, and industrial procurement planning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in contract management or purchasing (6/74); in the upper-division baccalaureate category, 2 semester hours in contract management or purchasing (6/74).

AF-1408-0052

CONTRACT MANAGEMENT OFFICER

Course Number: 3OZ6R6531-2.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 3 weeks (90 hours).

Exhibit Dates: 7/70-12/73.

Objectives: To train personnel to serve as contract managers.

Instruction: Lectures and practical exercises in contract management. Course includes introduction to contract management, plant office contract management mission and organization, contract administration, development engineering, quality assurance, production and property administration, systems procurement support and negotiation, contract control system, and measurement and test critique.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in contract management (6/74); in the upper-division baccalaureate category, 1 semester hour in contract management (6/74).

AF-1408-0055

PUBLICATIONS FUNCTIONS (SUPERVISOR)

Course Number: 3AZR70270.

Location: 3380th Technical School, Keesler AFB, MS; 3320th Technical School, Keesler AFB, MS.

Length: 3 weeks (90 hours).

Exhibit Dates: 11/62-12/73.

Objectives: To train noncommissioned officers and civilian service personnel to supervise publications operations, including filing, reproduction, distribution, and training of subordinates.

Instruction: Lectures and practical exercises in the supervision of publications operations. Course includes Air Force publications, publications preparation, reproduction, distribution, filing, control, management of reproduction, local printing, publications functions supervision, and subordinate training.

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

AF-1408-0056

DISBURSING OFFICER

Course Number: S56774.

Location: 3750th Technical School, Shoppard AFB, TX.

Length: 3 weeks (90-hours).

Exhibit Dates: 4/58-12/68.

Objectives: To train officers qualified as accountants as disbursing officers, and to familiarize them with the operation and functions of finance offices.

Instruction: Lectures and practical exercises in duties of disbursing officers and in the operations and functions of finance offices, including finance activities relating to military pay and allowances, travel allowances, commercial accounts, disbursements and collections, and local procurement procedures and payments.

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

AF-1408-0057

PROCUREMENT AND PRODUCTION OFFICER FUNDAMENTALS

Course Number: 3OOR6500.
AF-1408-0061  
**BUDGET OFFICER**

*Course Number:* All Versions: 30BB6731; Version 2: OAR6731; OA6731.  
*Location:* 3750th Technical School, Sheppard AFB, TX.  
*Duration:* Length: Version 1: 10 weeks (300 hours); Version 2: 10-11 weeks (300-330 hours).  
*Objectives:* To train officers as management analysis officers.

**Instruction:** All Versions: Lectures and practical exercises in the duties of budget officers, including introduction to Air Force budgeting and budget formulation.

*Version 1:* Topics include Air Force financial planning systems; developing estimates of requirements; preparation of the budget for operations; Air Force financial management; development of financial plans; and administration.  
*Version 2:* Topics include preparation of wing/base budgets.

**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in budgeting and financial management (8/74); in the upper-division baccalaureate category, 3 semester hours in budgeting and financial management (8/74); in the upper-division baccalaureate category, 6 semester hours in finance and disbursing (198-308 hours).  
**Version 2:** In the lower-division baccalaureate/associate degree category, 3 semester hours in budgeting and financial management (8/74); in the upper-division baccalaureate category, 6 semester hours in finance and disbursing (12/68).

AF-1408-0062  
**FINANCE SUPERVISOR**

*Course Number:* SS67170-2.  
*Location:* 3750th Technical School, Sheppard AFB, TX.  
*Duration:* Length: 5 weeks (150 hours).  
*Objectives:* To train airmen and civilian personnel in the operation of Air Force finance activities.

**Instruction:** Lectures and practical exercises on Air Force finance activities, including introduction, finance procedures, military pay; allowances, travel allowances, commercial accounts, and disbursing.

*Credit Recommendation:* In the upper-division baccalaureate category, 3 semester hours in finance and disbursing (12/68).

AF-1408-0063  
**MANAGEMENT ANALYSIS OFFICER**

*Course Number:* Version 1: 30BB6921; Version 2: 30BB6921; Version 3: OAR6891; Version 4: OAR6891; OA6891; OA6741; Version 5: OAR6891; OA6891; OAR6891; OA6741.  
*Location:* Version 1: 3750th Technical School, Sheppard AFB, TX; Version 2: 3750th Technical School, Sheppard AFB, TX; Version 3: 3750th Technical School, Sheppard AFB, TX; Version 4: 3750th Technical School, Sheppard AFB, TX; Version 5: 3750th Technical School, Lowry AFB, CO.  
*Duration:* Length: Version 1: 9 weeks (270 hours); Version 2: 10 weeks (300 hours); Version 3: 6 weeks (180 hours); Version 4: 10-11 weeks (300-330 hours); Version 5: 10-11 weeks (300-330 hours).

**Objectives:** To train officers as management analysis officers.

**Instruction:** All Versions: Lectures and practical exercises in applied management analysis.  
*Version 1:* Topics include introduction to analysis, descriptive statistics, inferential statistics, research methods, data analysis, forecasting techniques, trend analysis, program analysis, and financial analysis.  
*Version 2:* Topics include preparation for analysis, introduction to data analysis, and analytical techniques of management science.  
*Version 3:* Topics include preparation for analysis, introduction to data analysis, and analytical techniques of management science.  
*Version 4:* Topics include preparation for analysis, source data and analytical processes, and managerial accounting.  
*Version 5:* Topics include preparation for analysis, source data and analytical processes, and managerial accounting.

**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 6 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 6 semester hours in principles of management (8/74).  
*Version 2:* In the lower-division baccalaureate/associate degree category, 6 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 6 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 6 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 5 semester hours in applied management analysis, 4 in management control systems (12/68).  
*Version 3:* In the lower-division baccalaureate/associate degree category, 6 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 1 semester hour in oral and written communication, 5 in financial analysis, 2 in managerial statistics, 3 in management control systems (12/68).  
*Version 4:* In the lower-division baccalaureate/associate degree category, 6 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 1 semester hour in oral and written communication, 5 in financial analysis, 2 in managerial statistics, 3 in management control systems (12/68).  
*Version 5:* In the lower-division baccalaureate/associate degree category, 6 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 1 semester hour in oral and written communication, 5 in financial analysis, 3 in applied management analysis (12/68).
AF-1408-0064

SPECIAL SERVICES OFFICER

Course Number: 3OBR7341.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 4 weeks (138 hours).
Exhibit Dates: 6/73-12/73.

Objectives: To train officers to perform functions of special services officers.

Instruction: Lectures and practical exercises in the functions and duties of special services personnel. Course includes management of special services activities, budgeting, control of funds, and training methods.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management (8/74); in the upper-division baccalaureate category, 1 semester hour in principles of management (8/74).

AF-1408-0065

FINANCE SUPERVISOR

Course Number: AA67170.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 13 weeks (390 hours).
Exhibit Dates: 2/55-12/68.

Objectives: To train personnel as finance supervisors.

Instruction: Lectures and practical exercises in the duties of finance supervisors, including finance office management, military pay, travel allowances, commercial accounts, accounting for public funds, and finance office administration.

Credit Recommendation: In the upper-division baccalaureate category, 4 semester hours as an elective in disbursing and finance (12/68).

AF-1408-0066

ADMINISTRATIVE SUPERVISOR

Course Number: AA70270.
Location: 345th Technical School, Warner AFB, WY.
Length: 6-8 weeks (180-240 hours).
Exhibit Dates: 6/54-12/68.

Objectives: To train enlisted personnel for administrative positions.

Instruction: Lectures and practical exercises in publications, correspondence, directives, postal activities, and administration.

Credit Recommendation: No credit because of the limited specialized nature of the course (8/74).

AF-1408-0067

ADMINISTRATION MANAGEMENT/EXECUTIVE SUPPORT ADMINISTRATION MANAGEMEN(T AND EXECUTIVE SUPPORT OFFICER)

Course Number: 3OBR7300.
Location: 330th Technical School, Keesler AFB, MS; School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 7 weeks (210-254 hours).
Exhibit Dates: 1/72-12/73.

Objectives: To train commissioned officer to manage executive support functions.

Instruction: Lectures and practical exercises in the management of executive support functions. Course includes administrative policies and procedures, communication, resources management, personnel management, human relations, and performance rating systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of management (8/74); in the upper-division baccalaureate category, 3 semester hours in principles of management (8/74).

AF-1408-0068

HEALTH SERVICES ADMINISTRATION

Course Number: 3OAR0025.
Location: School of Health Care Sciences, Sheppard AFB, TX.
Length: 20 weeks (600 hours).
Exhibit Dates: 1/72-12/73.

Objectives: To train selected career Medical Service Corps officers for administrative/management positions in all areas of health services administration.

Instruction: Lectures and practical exercises in management skills and techniques, economics and statistics, behavioral sciences, and principles of health services and hospital administration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills (6/75); in the upper-division baccalaureate category, 1 semester hour in health economics, 1 in government, 4 in management principles, 3 in behavioral sciences, 2 in statistics, 10 in hospital administration (6/75).

AF-1408-0069

PROCUREMENT SPECIALIST

Course Number: 3ABR65130-1; ABR65130; ABR65130-1.
Location: 3415th Technical School, Lowry AFB, CO; 3320th Technical School, Amarillo AFB, TX.
Length: 7-8 weeks (210 hours).
Exhibit Dates: 7/61-12/73.

Objectives: To train airmen in the duties of procurement personnel.

Instruction: Lectures and practical exercises in procurement terminology, publications, and organization. Specific topics include purchase requisitions, contract negotiation and administration, and bid procedures.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in procurement or purchasing (12/68).

AF-1409-0001

MORSE OPERATOR, PREPARATORY

INTERCEPT OPERATOR, PREPARATORY

NON-MORSE INTERCEPT OPERATOR, PREPARATORY

Course Number: AAR29222.
Location: 330th Technical School, Keesler AFB, MS.
Length: 13-14 weeks (36-39 hours).
Exhibit Dates: 6/62-12/73.

Objectives: To train enlisted personnel in the operation of Morse Code equipment.

Instruction: Practical exercises in typing, transcribing Morse code, electronic principles, radio operation, and recorders.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in typing (3/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).

AF-1409-0002

CHAPLAIN SERVICES SPECIALIST

Location: Version 1: 3320th Technical School, Amarillo AFB, TX; Version 2: 3320th Technical School, Amarillo AFB, TX; Version 3: 3320th Technical School, Lackland AFB, TX; Version 4: 3450th Technical School, Warrent AFB, WY.

Objectives: To train enlisted personnel as chaplain services specialists.

Instruction: Lectures and practical exercises in administration, records management, chaplain fund accounting, written communications, and typing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in typing (3/74); in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).

AF-1409-0003

CLASSIFICATION SPECIALIST

Course Number: AB73230.
Location: 3310th Technical School, Scott AFB, IL.
Length: 11 weeks (330 hours).
Exhibit Dates: 8/55-12/68.

Objectives: To train airmen in the proper classification and maintenance of associated Air Force personnel records.

Instruction: Lectures and practical experience in classification fundamentals, typing, airmen records and procedures, personnel accounting, and interviewing procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in typing (3/74); in the upper-division baccalaureate category, 2 semester hours in personnel classification, and credit in typing on the basis of institutional evaluation (12/68).

AF-1409-0004

COMMUNICATIONS CENTER SPECIALIST


Objectives: To train airmen to be automobiles communications center specialists.

Instruction: Lectures and practical exercises in teletypewriter communications
security practices; tonn-tape relay and cryptographic equipment operation; and narrative and data message processing, transmitting, and receiving procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in typing (6/74), in the upper-division baccalaureate category, credit in typing on the basis of institutional evaluation (12/68).

AF-1511-0001
1. AIR COMMAND AND STAFF COLLEGE
2. AIR COMMAND AND STAFF COLLEGE
3. COMMAND AND STAFF COLLEGE
(COMMAND AND STAFF SCHOOL)
4. COMMAND AND STAFF COURSE

Course Number: None.
Location: Air University, Maxwell AFB, AL.


Objectives: To train officers in the factors affecting national behavior and policy formation, in military management processes, and in military subjects, including employment of aerospace power.

Instruction: Lectures, seminars, readings, and student research in the factors affecting national behavior and policy formation, in military management processes, and in military subjects, including employment of aerospace power.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 30 semester hours (to be apportioned by the receiving institution) in the areas of international relations, political science, economics, management, and research (8/74), in the graduate degree category, 3 semester hours in international relations, 3 in economic management, 6 in research, 3 in international relations electives, 3 in management electives. NOTE: Credit recommendation is based on an on-site evaluation. Credit granted for thesis should be contingent on the graduate school's evaluation of the research paper. Version 2: In the upper-division baccalaureate category, 6 semester hours in business organization and management, 2 in political science, 3 in international relations, and credit in written and oral communication on the basis of institutional examination (8/74); in the graduate degree category, 0-6 semester hours in public administration or in the field of thesis (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Credit granted for thesis should be contingent on the graduate school's evaluation of the research paper. Version 3: In the upper-division baccalaureate category, 6 semester hours in business organization and management, 3 in political science and international relations (12/68).

AF-1511-0002
AIR COMMAND AND STAFF NONRESIDENT SEMINAR PROGRAM

Course Number: None.
Location: Air Command and Staff College, Maxwell AFB, AL.

Length: 104 weeks.

Exhibit Dates: 8/70-Present.

Objectives: To train officers in national and international factors influencing U.S. security policy and free world stability, and in the factors influencing the development and use of military forces in the support of national security policy.

Instruction: Seminars, readings, and student research in national and international factors influencing U.S. security policy and free world stability, and in the factors influencing the development and use of military forces in the support of national security policy.

Credit Recommendation: In the upper-division baccalaureate category, 24 semester hours in the areas of social science and personnel management (8/74); in the graduate degree category, for students who have completed the program with a rating of Outstanding or Excellent, 4 semester hours in international relations, 2 in personnel management (8/74). NOTE: Credit recommendation is based on an on-site evaluation. It is suggested that an institution delay awarding credit until the student has completed the program with a rating of Outstanding or Excellent, 4 semester hours in international relations, 2 in personnel management. NOTE: Credit recommendation is based on an on-site evaluation. It is suggested that an institution delay awarding credit until the student has successfully completed one semester of graduate work. This course is offered at various locations under the administration of the Air University, Maxwell AFB. Distribution of course materials and the transcript service are handled by the Extension Course Institute (ECI).

AF-1511-0003
AIR COMMAND AND STAFF CORRESPONDENCE PROGRAM

Course Number: None.
Location: Air Command and Staff College, Maxwell AFB, AL.

Length: 104 weeks.

Exhibit Dates: 8/70-Present.

Objectives: To train officers in factors affecting the national behavior and policy formation, in military management processes, and in military subjects, including employment of aerospace power.

Instruction: Individualized readings and student research in factors affecting national behavior and policy formation, in military management processes, and in military subjects including employment of aerospace power. The correspondence program is based on the resident course (AF-1511-0001) and is divided into four course blocks: Military Environment, Command and Management, and Military Employment, Part I and Part II.

Credit Recommendation: In the upper-division baccalaureate category, 15 semester hours in social sciences and personnel management (8/74), in the graduate degree category, for students who have completed the program with a rating of Satisfactory, 3 semester hours in international relations (8/74). NOTE: Credit recommendation is based on an on-site evaluation. It is suggested that an institution delay awarding credit until the student has successfully completed one semester of graduate work. This course is offered at various locations under the administration of the Air University, Maxwell AFB. Distribution of course materials and the transcript service are handled by the Extension Course Institute (ECI).

AF-1511-0004
AIR WAR COLLEGE NONRESIDENT SEMINAR PROGRAM

Course Number: None.
Location: Air War College, Maxwell AFB, AL.

Length: 104 weeks.

Exhibit Dates: 8/70-Present.

Objectives: To train officers in the principles of military strategy and national security policy for development and employment of aerospace power.

Instruction: Seminars, readings, and student research in principles of military strategy and national security policy for development and employment of aerospace power, including nature of national power and its application in the nation/state system; changing nature of U.S. society and its interrelationship with national security; current and potential threats to U.S. security; determinants of U.S. national security policy; formulation and implementation of the policies; allocation and management of defense resources; military management and decision-making; impact of science and technology on weapon systems, military concepts, doctrine, and strategy; causes, nature, and purposes of armed conflict; U.S. military concepts and strategy, and processes by which they are formulated and implemented; role of deterrence, arms control, and other strategies for achieving and maintaining international order and stability; development and evaluation of aerospace concepts for national security; and evaluation of present and potential strategies, capabilities, and vulnerabilities of the U.S., its allies, and potentially hostile countries.

Credit Recommendation: In the upper-division baccalaureate category, 24 semester hours in the areas of political science, international relations and government, and personnel management (8/74); in the graduate degree category, for students who have completed the program with a rating of Outstanding or Excellent, 4 semester hours in international relations, 2 in personnel management. NOTE: Credit recommendation is based on an on-site evaluation. It is suggested that an institution delay awarding credit until the student has successfully completed one semester of graduate work. This course is offered at various locations under the administration of the Air War College, Maxwell AFB. Distribution of course materials and the transcript service are handled by the Extension Course Institute (ECI).

AF-1511-0005
AIR WAR COLLEGE CORRESPONDENCE PROGRAM

Course Number: None.
Location: Air War College, Maxwell AFB, AL.

Length: 104 weeks.

Exhibit Dates: 8/70-Present.

Objectives: To train senior officers in principles of military strategy and national security policy for development and employment of aerospace power.
COURSE EXHIBITS

Instruction: Seminars and individualized readings and student research in principles of military strategy for national security policy for development and employment of aerospace power, including nature of national power and its application in the nation-state systems; changing nature of U.S. society and its interrelationships with national security; current and potential threats to U.S. security; determinants of U.S. national security policy, formulation and implementation of the policies; allocation and management of defense resources; military management and decision-making; impact of science and technology on weaponry systems, military concepts, doctrine, and strategy; causes, nature, and purposes of armed conflict; U.S. military concepts and strategies, and processes by which they are formulated and implemented; role of deterrence, arms control, and other strategies for achieving and maintaining international order and stability; development and evaluation of aerospace concepts for national security; and evaluation of present and potential strategic capabilities, and vulnerabilities of the U.S. and other potential hostile countries.

Credit Recommendation: In the upper-division baccalaureate category, 24 semester hours in the areas of political science, international relations and government, and personnel management (8/74); in the graduate degree category, for students who have completed the program with a rating of Outstanding or Excellent, 4 semester hours in international relations; 2 in personnel management (8/74). NOTE: Credit recommendation is based on an on-site evaluation. It is suggested that an institution delay awarding credit until the student has successfully completed one semester of graduate work. This course is offered at various locations under the administration of Air War College, Maxwell Air Force Base. Distribution of course materials and the transcript service is handled by the Extension Course Institute (ECI).

AF-1511-0006

1. AIR WAR COLLEGE
2. AIR WAR COLLEGE
3. AIR WAR COLLEGE
4. AIR WAR COLLEGE

(AF-1511-0006)

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in international relations; 6 in management, 2 in research training; an additional 3 semester hours of graduate credit may be granted for completion of any two of the following elective courses: History of Military Thought, The Soviet Union, Communist China, Politics and Government of Emerging Nations, Economics of National Defense, Human Relations in Administration, and Quantitative Analysis (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Credit granted for research papers should be contingent upon the graduate school's evaluation of the thesis. Recommendations are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. Version 2: In the upper-division baccalaureate category, 6 semester hours in political science (including international relations), 9 in business organization and management (planning and decision-making), 4 in social science survey; and credit in oral and written communications on the basis of institutional evaluation (8/74); in the graduate degree category, 6 semester hours in a one-year M.A. program in the field of international relations or in the field of thesis research (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Credit granted for thesis should be contingent upon the graduate school's evaluation of the research paper for an indication of the extent and depth of the student's reading, seminar, and research work during the course of instruction. Version 3: In the upper-division baccalaureate category, 6 semester hours in social science survey, 6 in political science (including international relations), 3 in recent history, 3 in economics, 3 in business organization and management (planning and leadership), and credit in oral and written communication on the basis of institutional evaluation (12/68). Version 4: In the upper-division baccalaureate category, 6 semester hours in social science survey, 6 in political science (including international relations), 3 in recent history, 3 in economics, 3 in business organization and management (planning and leadership) (12/68).

AF-1512-0001

PILOT INSTRUCTOR TRAINING, PRIMARY (T-34/T-28)

Course Number: F112103P-1.
Location: Air Training Command, Craig AFB, AL.
Length: 4 weeks (160 hours).

Instruction: Lectures, readings, and student research and discussion in military strategy; The nature of national security policy for the development and employment of aerospace power.

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 3 semester hours to be distributed by the receiving institution in the areas of international relations, political science, economics, management, and research (6/74); in the graduate degree category, 6 semester hours in international relations, 6 in management, 0-4 in research training; additionally, 2 semester hours of graduate credit may be granted for completion of any two of the following elective courses: History of Military Thought, The Soviet Union, Communist China, Politics and Government of Emerging Nations, Economics of National Defense, Human Relations in Administration, and Quantitative Analysis (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Credit granted for research papers should be contingent upon the graduate school's evaluation of the thesis. Recommendations are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. Version 2: In the upper-division baccalaureate category, 6 semester hours in political science (including international relations), 9 in business organization and management (planning and decision-making), 4 in social science survey; and credit in oral and written communications on the basis of institutional evaluation (8/74); in the graduate degree category, 6 semester hours in a one-year M.A. program in the field of international relations or in the field of thesis research (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Credit granted for thesis should be contingent upon the graduate school's evaluation of the research paper for an indication of the extent and depth of the student's reading, seminar, and research work during the course of instruction. Version 3: In the upper-division baccalaureate category, 6 semester hours in social science survey, 6 in political science (including international relations), 3 in recent history, 3 in economics, 3 in business organization and management (planning and leadership), and credit in oral and written communication on the basis of institutional evaluation (12/68). Version 4: In the upper-division baccalaureate category, 6 semester hours in social science survey, 6 in political science (including international relations), 3 in recent history, 3 in economics, 3 in business organization and management (planning and leadership) (12/68).

AF-1512-0002

MILITARY TRAINING INSTRUCTOR

Objectives: To train selected enlisted personnel to perform as military training instructors with minimum on-the-job training.

Instruction: All Versions: Lectures and practical exercises in the principles, methods, and techniques of instruction; identification of trainee emotion, mental and drug problems; evaluation procedures; and drill and ceremony. Version 2: Topics include counseling techniques.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in educational psychology and 3 in instructional methods (7/74); in the upper-division baccalaureate category, 3 semester hours in educational psychology and 3 in instructional methods (7/74). Version 2: In the upper-division baccalaureate category, 2 semester hours in instructional methods (7/74); in the upper-division baccalaureate category, 2 semester hours in instructional methods (12/68). Version 3: In the lower-division baccalaureate category, 2 semester hours in instructional methods (12/68).

AF-1512-0003

DRUG EDUCATION AND COUNSELING

Course Number: 302R0038.
Location: Lackland Technical Training Center, Lackland AFB, TX.
Length: 4 weeks (160 hours).
Exhibit Dates: 1: 4/12-7/12. Objectives: To train selected officers and enlisted personnel to perform drug education and counseling duties at military installations.

Instruction: Lectures and practical exercises in drug education and counseling duties. Topics include history and scope of drug use; approaches to counseling and treatment; military policies and directives; program and community resources and constructive alternatives; educational and rehabilitative program models; local program development; communciation techniques; program and resource evaluation; and follow-up training.

Credit Recommendation: In the lower-division baccalaureate category, 3 semester hours in psychology or group dynamics, 2 in introduction to
drug and alcohol abuse, and 3 in drug abuse program development and evaluation (8/74) for the upper-division baccalaureate category; 3 semester hours in psychology or an equivalent course, 2 in introduction to drug and alcohol abuse, and 3 in drug abuse program development and evaluation (8/74).

AF-1513-0001

HUMAN RELATIONS ADVISOR

Course Number: 205R(0009)
Location: Lackland Technical Training Center, Lackland AFB, TX.
Length: 2 weeks (60 hours).
Exhibit Dates: 5/72-12/73.
Objectives: To train officers and airmen as human relations advisors.

Instruction: Lectures and practical exercises in the duties of installation human relations advisors, including development, conduct, and evaluation of human relations programs; coordination with military and civic agencies, professional growth, social action, and the dynamics of group processes.

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

AF-1601-0001

PRODUCTION CONTROL

Course Number: ALR45130; AL45130, AL80270.
Location: 3345th Technical School, Chanute AFB, IL.
Length: Version 1: 12 weeks (360 hours).
Version 2: 14 weeks (420 hours).
Exhibit Dates: Version 1: 2/58-12/68.
Version 2: 1/58.
Objectives: To train personnel in the production control functions of aircraft maintenance, motor vehicle maintenance, ground equipment maintenance, installation engineering maintenance, and depot maintenance.

Instruction: Discussions and practical exercises in production control theory, functions, and mathematics; estimating theory and techniques; maintenance production analysis, and scheduling theory and techniques.

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

AF-1513-0002

SENIOR CHAPLAIN

Course Number: None.
Location: Chaplain School, Maxwell AFB, AL.
Length: 3 weeks (99 hours).
Exhibit Dates: 1/74-Present.
Objectives: To assist senior chaplains in developing awareness and obtaining skills to perform the duties of Senior Pastoral Care.

Instruction: Lectures and practical exercises in communication, human relations, professional growth, social action, and the pastoral role.

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

AF-1513-0003

CHAPLAIN ORIENTATION

Course Number: None.
Location: Chaplain School, Maxwell AFB, AL.
Length: 5 weeks (171 hours).
Exhibit Dates: 11/73-Present.
Objectives: To introduce chaplains to the Air Force for the purpose of assisting their transition from civilian to military status.

Instruction: Lectures and practical exercises in the administration of the Air Force Chaplain Program and pastoral care.

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

AF-1513-0004

ADVANCED CHAPLAIN

Course Number: None.
Location: Chaplain School, Maxwell AFB, AL.
Length: 3 weeks (109 hours).

Exhibit Dates: 7/73-Present.
Objectives: To prepare mid-grade chaplains for increased leadership and responsibility.

Instruction: Lectures and practical exercises in chaplain program management, team building, and leadership.

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

AF-1601-0002

LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST/TECHNICIAN (SM-65F)

Course Number: ATS54670D-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 12 weeks (360 hours).
Exhibit Dates: 6/61-9/64.
Objectives: To train enlisted personnel to operate, maintain, and troubleshoot the cryogenic fluid unit.

Instruction: Lectures and practical exercises in air processing equipment operation and maintenance, air compressor and storage tank operation and maintenance, continuous liquid/gaseous oxygen-nitrogen defrost procedures.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 5 semester hours in industrial or mechanical technology (6/74).

AF-1601-0003

CRYOGENIC FLUIDS PRODUCTION SPECIALIST (25-TON PLANT)

Course Number: ABR54430Y.
Location: 3345th Technical School, Chanute AFB, IL.
Version 2: 19 weeks (540 hours).
Exhibit Dates: Version 1: 10/64-12/66.
Version 2: 12/61-9/64.
Objectives: To train enlisted personnel to operate, maintain, and troubleshoot the cryogenic fluid unit.

Instruction: Lectures and practical exercises in air processing equipment operation and maintenance, air compressor and storage tank operation and maintenance, continuous liquid/gaseous oxygen-nitrogen defrost procedures.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 5 semester hours in industrial or mechanical technology (6/74).

AF-1601-0004

FUEL SPECIALIST (SM-69B)

Course Number: ATS64350B-5.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 5 weeks (150 hours).
Exhibit Dates: 12/62-12/68.
Objectives: To train personnel to receive, issue, and deliver propellants and gases.

Instruction: Lectures and practical exercises on the handling, transporting, and transferring of propellants and gases, including operation and maintenance of fuel and oxidizer transport, waste propellant disposal trailer and gas tube trailer, safety precautions in handling, transporting, and transferring propellants; utilizing protective clothing and equipment; handling and transport of aerozine and nitrogen tetroxide; disposal of waste propellants; use of high-pressure gases; and safety practices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in...
AF-1601-0006
1. LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (CONVENTIONAL FUEL)
2. LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (CONVENTIONAL FUEL)
3. PETROLEUM SYSTEMS MAINTENANCE SPECIALIST

Course Number: Version 1: 3ABR54630-1

Location: Version 1: School for Applied Aerospace Sciences, Chanute AFB, IL


Objectives: To teach fundamentals of hydraulic systems.

Instruction: Lectures and practical exercises in fundamentals of basic hydraulics and electricity; fabrication of piping and tubing systems; repair and maintenance of hydraulic component parts, and industrial safety in handling high-pressure liquids.

Credit Recommendation: Version 1: 3 semester hours in applied hydraulics, mechanical systems, and/or fluid power, 1 in industrial safety (7/74). Version 2: In the upper-division baccalaureate category, 2 semester hours in applied hydraulics, mechanical systems, and/or fluid power, 1 in industrial safety (7/74). Version 3: In the upper-division baccalaureate category, 3 semester hours in applied hydraulics, mechanical systems, and/or fluid power, 1 in industrial safety (7/74).

AF-1601-0007
LIQUID FUEL SYSTEM MAINTENANCE SPECIALIST/TECHNICIAN SM-68B

Course Number: ATCS4650F-1; ATCS4650F-2

Location: 3345th Technical School, Chanute AFB, IL

Length: 12 weeks (360 hours).

Exhibit Dates: 1/61-12/68.

Objectives: To train personnel experienced in the use and handling of unconventional fuels to perform as a liquid fuel system maintenance specialist/technician.

Instruction: Lectures and practical exercises on the operation and maintenance of guided missile propellant storage, transport and transfer equipment, including squadron organization and maintenance concepts, weapon system familiarization, weapon system safety, propellant hazards, fuel and oxidizer transport trailers and holding tanks, conditioning trailer, propellant waste disposal trailer, hardstand waste and drainage system, and operation and maintenance of electrical and pneumatic valves.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial and mechanical technology (6/74).

AF-1601-0008
FUEL SPECIALIST (UNCONVENTIONAL FUELS)

Course Number: ATSC6435B-4

Location: 3345th Technical School, Chanute AFB, IL

Length: 4 weeks (120 hours).

Exhibit Dates: 7/59-12/68.

Objectives: To train personnel to operate and maintain liquid nitrogen, liquid oxygen and compressed-gas transfer trailers, unconventional fuel handling equipment and other related items; cryogenics of liquid oxygen; hazards and safety precautions; organization and function of the unconventional fuel section; and purpose and operation of gas trailers, compressors, and recovery equipment.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1601-0009
1. CRYOGENIC FLUIDS PRODUCTION SPECIALIST/TECHNICIAN (25 TON)
2. GAS GENERATION PLANT OPERATOR/TECHNICIAN (25 TON)

Course Number: ATS56250-5

Location: 3345th Technical School, Chanute AFB, IL


Objectives: To train enlisted personnel to troubleshoot and maintain an oxygen-nitrogen generating plant.

Instruction: Lectures and practical exercises in oxygen-nitrogen plant troubleshooting and maintenance, including introduction to 25 Ton oxygen-nitrogen generator, air-compressing and cooling equipment operation and maintenance, and air processing equipment operation and maintenance. Version 2: Instruction includes cryogenic fluid plant operation.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in industrial safety and maintenance (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in industrial safety, materials handling, hydraulics, and pneumatics (6/74).

AF-1601-0010
FUEL SPECIALIST

Course Number: ATSC64330A-1

Location: 3320th Technical School, Amarillo AFB, TX.

Length: 5-6 weeks (150-168 hours).

Exhibit Dates: 7/59-12/68.

Objectives: To train personnel to perform as fuel specialists.

Instruction: Lectures and practical exercises on the management of fuels, including administration and accounting, quality control and fuel testing, operation and operator maintenance of fixed storage and dispensing systems, bulk storage tank farms, mobile fueling equipment, safety, and the F-6, F-7, M-1, and M-1 (oil) servicing units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in quality control and industrial safety (6/74).

AF-1601-0011
LIQUID FUEL SYSTEMS MAINTENANCE TECHNICIAN (CONVENTIONAL FUEL)

Course Number: Version 1: 3AR54670-1
Version 2: AAR54670W


Objectives: To train liquid fuel systems maintenance specialists to troubleshoot, adjust, maintain, and repair bulk storage and dispensing systems for conventional fuels.

Instruction: All Versions: Lectures and practical exercises in safe and proper handling of fuel storage and dispensing equipment, and fuel systems test equipment troubleshooting and maintenance. Version 2: Instruction includes hydraulic principles, measurement of hydraulic systems values, and pneumatics.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in industrial safety and materials handling (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in industrial safety, materials handling, hydraulics, and pneumatics (6/74).

AF-1601-0012
CRYOGENIC FLUIDS PRODUCTION SPECIALIST (1 1/2 TON/DAY AND 5 TON/DAY PLANTS)

(CRYOGENIC FLUIDS PRODUCTION SPECIALIST (1 1/2 TON/DAY PLANTS))

Course Number: 3AZR5430.

Location: 3345th Technical School, Chanute AFB, IL

Length: 5-6 weeks (150-168 hours).

Exhibit Dates: 4/68-12/73.

Objectives: To train personnel to perform as cryogenic fluids production specialist in 1 1/2 ton/day and 5 ton/day plants.

Instruction: Lectures and practical exercises in cryogenic fluid systems operation of the 1 1/2 ton/day and 5 ton/day cryogenic fluids generating plant, including the continuous operation of the 1 1/2 ton/day plant; maintenance of electrical equipment, air compressor, water cooling system, and product pump; and fundamental operation and fluid flow through the 5 ton/day oxygen/nitrogen generating plant.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in industrial and mechanical technology (6/74).

AF-1601-0013
FUNDAMENTALS OF LIQUID FUEL SYSTEMS MAINTENANCE

Course Number: AQR54620

Location: 3345th Technical School, Chanute AFB, IL.

Length: 8 weeks (210 hours).

Exhibit Dates: 6/62-12/68.

Objectives: To train enlisted personnel to maintain guided missile liquid propellant systems at the apprentice level.
AF-1601-0014
LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (LGM-25C)
Course Number: ALR54630F
Location: 3345th Technical School, Chanute AFB, IL
Length: 8 weeks (240 hours).
Exhibit Dates: 2/65-12/68.
Objectives: To train personnel to perform as liquid fuel systems maintenance specialists.
Instruction: Lectures and practical exercises on liquid fuel systems maintenance, including: operation and maintenance of fuel, safe, and automatic valves; operation and maintenance of flanges, disconnects, and hoses; component decontamination, cleaning, and inspection; propellant, hazards, protective clothing and equipment; processing components through decontamination and cleaning facilities; operation and maintenance of waste propellant disposal trailer and aerospace ground equipment; propellant transfer systems; and integrated operation and maintenance of propellant transfer systems.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical and industrial technology (6/74).

AF-1601-0015
LIQUID OXYGEN GENERATION PLANT OPERATION AND MAINTENANCE (25 TON/D)
Course Number: ADS56250-1
Location: 3345th Technical School, Chanute AFB, IL
Length: 10 weeks (400 hours).
Exhibit Dates: 4/60-12/68.
Objectives: To train personnel in the operation and maintenance of the 25 ton/day liquid oxygen plant.
Instruction: Lectures and practical exercises on the operation and maintenance of the 25 ton/day liquid oxygen plant, including: properties of air, separation of gases and general familiarization with oxygen plants, general description of components and flow cycle, theory and principle of operation of the diesel engine, refrigeration equipment, expansion engine, air separation, liquid oxygen and nitrogen pumps, and operational procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in industrial and mechanical technology (6/74).

AF-1601-0016
1. CRYOGENIC FLUIDS PRODUCTION SPECIALIST
2. GAS GENERATING PLANT OPERATOR
Course Number: Version 1: ABR54430; ABR54430; ABR56230; ABR54430Z
Length: Version 1: 11-12 weeks (330-437 hours); Version 2: 10-11 weeks (288-300 hours).
Objectives: To train enlisted personnel to perform as cryogenic fluids production specialists for work in oxygen or nitrogen generating plants.
Instruction: Lectures and practical exercises in the layout, installation, operation, and operator maintenance of oxygen/nitrogen generating plants and related equipment, including introduction to cryogenic fluids production; operation of portable oxyacetylene welding equipment; operation of portable oxyacetylene welding equipment; operation of air processing equipment; components and flow; operation and maintenance of air separator and cryotainers; and continuous plant operation.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in industrial/mechanical technology (6/74).

AF-1601-0017
CRYOGENIC FLUIDS PRODUCTION SPECIALIST
Course Number: ALR54430
Location: 3345th Technical School, Chanute AFB, IL
Length: 7 weeks (330 hours).
Exhibit Dates: 8/65-12/68.
Objectives: To train enlisted personnel to perform as cryogenic fluids production specialists for work in oxygen or nitrogen generating plants.
Instruction: Lectures and practical exercises on the layout, installation, operation, and operator maintenance of oxygen/nitrogen generating plants and related equipment, including introduction to cryogenic fluids production; operation of portable oxyacetylene welding equipment; operation of portable oxyacetylene welding equipment; operation of air processing equipment; components and flow; operation and maintenance of air separator and cryotainers; and continuous plant operation.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical and industrial technology (6/74).

AF-1601-0018
CRYOGENIC FLUIDS PRODUCTION SPECIALIST / TECHNICIAN (25 TON)
Course Number: ADS56250-302
Location: 3345th Technical School, Chanute AFB, IL
Length: 4 weeks (160 hours).
Exhibit Dates: 1/54-12/68.
Objectives: To train personnel to perform as cryogenic fluids production specialist technicians.
Instruction: Lectures and practical exercises on cryogenic fluids production, including preliminary start-up and checkout, complete plant defrost, continuous plant operation and troubleshooting, performing cool-down, obtaining liquid levels and required purity, producing liquid oxygen and/or nitrogen, filling trailers with products, and preparing the unit for storage.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial and mechanical technology (6/74).

AF-1601-0019
LIQUID FUEL SYSTEMS SPECIALIST / TECHNICIAN (SM-65)
Course Number: ATS56850-1
Location: 3345th Technical School, Chanute AFB, IL.
Length: 12-13 weeks (360-390 hours).
Exhibit Dates: 1/60-12/68.
Objectives: To train enlisted personnel to operate and maintain a guided missile propellant transfer system.
Instruction: Lectures and practical exercises on guided missile propellant transfer system operation and maintenance, including storage and safety precautions for liquid oxygen and liquid and high-pressure gases; operation, troubleshooting, and component replacement of liquid oxygen and fuel transfer systems; and use of specialized instruments in troubleshooting and repair, and storage and transfer of liquid nitrogen and high-pressure helium.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical or industrial technology (6/74).

AF-1601-0020
FIELD ANALYSIS OF CRYOGENIC LIQUIDS AND GASES
Course Number: ATS64350B-8
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 2/62-12/68.
Objectives: To train enlisted personnel to analyze cryogenic liquids and gases for purity.
Instruction: Lectures and practical exercises in the analysis of cryogenic liquids and gases, including operation, troubleshooting, and calibration of testing devices such as Gow-Mac helium analyzer, Perkin-Elmer analyzer, vacuum pumps, drying ovens, filters, and pumps; and analysis of oxygen, helium, and nitrogen for moisture, particulates, and hydrocarbons.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in chemical technology (6/74).

AF-1601-0021
CIVIL ENGINEER INSPECTOR
Course Number: 3AZR55000; 3AZR55000
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 4/62-12/73.
Objectives: To train airmen and enlisted personnel to perform as building construction inspectors.
AF-1601-0022
APPLIED ENGINEERING

Course Number: None.
Location: Air Force Institute of Technology, Wright-Patterson AFB, OH.
Length: 9 weeks (296 hours).
Exhibit Dates: 6/72-Present.
Objectives: To train architects and engineers to apply current mechanical and electrical engineering technology to Real Property facilities.

Instruction: Lectures and practical exercises in the application of current mechanical and electrical engineering technology, including psychrometrics, air conditioning loads, noise reduction, thermal and duct design, mechanical equipment selection and application, system controls, wiring and lighting design, power factor correction, corrosion technology, and integrated design planning and execution.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in building inspection (6/74).

AF-1601-0023
INDUSTRIAL ENGINEERING TECHNIQUES

Course Number: None.
Location: Air Force Institute of Technology, Wright-Patterson AFB, OH.
Length: 5 weeks (200 hours).
Exhibit Dates: 7/74-Present.
Objectives: To train personnel in industrial engineering technology.

Instruction: Lectures and practical exercises in industrial engineering technology, including mathematics, fundamentals of statistics, work design, work measurement, plant layout, engineering economy, network planning, and other topics of current interest.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in algebra, 2 in statistics, and 1 in industrial engineering (6/74); in the upper-division baccalaureate category, 1 semester hour in statistics, 1 in industrial engineering (6/74).

AF-1601-0024
CARTOGRAPHIC OFFICER

Course Number: 50B05724.
Location: Aeronautical Chart and Information Center, St. Louis, MO.
Length: 26 weeks (1040 hours).
Exhibit Dates: 3/70-Present.
Objectives: To train officers as cartographic officers.

Instruction: Lectures and practical exercises in duties of cartographic officers, including management, methods of construction, inspection of utility systems, drawing interpretation, specifications, and roads and grounds inspections.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in building inspection (6/74).

AF-1601-0025
BUILDING SYSTEMS ENGINEERING

Course Number: None.
Location: Civil Engineering School, Wright-Patterson AFB, OH.
Length: 3 weeks (120 hours).
Exhibit Dates: 4/73-Present.
Objectives: To train engineers to apply current technology and techniques to the design, construction, and maintenance of building components.

Instruction: Lectures and practical exercises in the application of current technology to the design, construction, and maintenance of building components, including life-cycle evaluation, economic analysis, material selection, system design, power factor correction, corrosion technology, and integrated design planning and execution.

Credit Recommendation: In the upper-division baccalaureate/associate degree category, 22 semester hours in cartography (7/74).

AF-1601-0026
PHOTOMAPPING

Course Number: 3AA53670; 3AZR53670.
Location: Aeronautical Chart and Information Center, St. Louis, MO.
Length: 10 weeks (332 hours).
Exhibit Dates: 4/56-12/68.
Objectives: To train enlisted personnel to prepare maps and charts using photogrammetry.

Instruction: Lectures and practical exercises in the preparation of maps and charts, including introductory cartography, vertical and trimegrometry, and reproduction procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in photomapping (7/74); in the upper-division baccalaureate category, 4 semester hours in mapping and drafting (12/68).

AF-1601-0027
NON-DESTRUCTIVE INSPECTION TECHNICIAN

Course Number: Not available.
Location: Chanute AFB, IL.
Length: 4 weeks (120-146 hours).
Exhibit Dates: 4/72-12/73.
Objectives: To train enlisted personnel in the duties of non-destructive inspection technicians.

Instruction: Lectures and practical exercises in the duties of non-destructive inspection technicians.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical or metallurgical engineering technology (7/74).

1. LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (HGM-16F)

Course Number: ABR54630.
Location: Chanute AFB, IL.
Objectives: To train enlisted personnel in liquid fuel systems maintenance.

Instruction: Lectures and practical exercises in maintenance of liquid fuel systems. Course includes fundamentals of missile operation, fuel system components, propellant transfer systems, subsonic engines, and storage and maintenance of aerospace ground equipment, and operation and maintenance of propellant transfer systems.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 8 semester hours in mechanical or aeronautical engineering technology (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical or aeronautical engineering technology (7/74).

AF-1601-0029
JOY HELIUM COMPRESSOR FIELD AND ORGANIZATIONAL (F & O)

Course Number: AT542I53-52.
Location: Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 11/61-12/68.
Objectives: To train enlisted personnel to maintain and troubleshoot Joy helium compressors.

Instruction: Lectures and practical exercises in maintenance of Joy helium compressors. Course includes construction and operating principles of compressors, electrical system and safety devices, inspection and operating procedures, troubleshooting and operator maintenance, overhaul of slave and main compressors, and servicing of refrigeration systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical or mechanical engineering technology (7/74).
AF-1601-0030

LIQUID FUEL SYSTEMS MAINTENANCE TECHNICIAN (CONVENTIONAL FUEL)

Course Number: 3AARS5670-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 6 weeks (180 hours).

Exhibit Dates: 7/71-12/73.

Objectives: To train enlisted personnel to receive, store, and issue petroleum products, and to maintain quality control of these products.

Instruction: Lectures and practical exercises in the receipt, storage, and general maintenance of petroleum products. Course includes receiving, dispensing, and storage of military fuels, quality control techniques, basic physics and chemistry, electricity, fuel transfer system and components, and tank design.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in hydraulics or materials handling (7/74).

AF-1601-0031

LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (SM-65D)

Course Number: ABR54630A-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 8 weeks (240 hours).


Objectives: To train enlisted personnel to operate cryogenic liquid and high-pressure gas storage and transfer equipment.

Instruction: Lectures and practical exercises in the operation of cryogenic liquid and high-pressure gas storage transfer equipment. Course includes design and function of missile fuel and storage facilities, proper handling, calibration, repair, and testing of special control components, and safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical or fluid power (7/74).

AF-1601-0032

1. LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (HGM-25)
2. LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (SM-68A)

Course Number: ABR54630E.
Location: 3345th Technical School, Chanute AFB, IL.


Objectives: To train personnel as liquid fuel systems maintenance specialists on specific weapon systems.

Instruction: All Versions: Lectures and practical exercises in the duties of liquid fuel systems maintenance specialist, including weapon system familiarization; characteristics of propellants peculiar to the system and safety hazards involved; operation of the mobile and facilities propellant transfer systems; maintenance of system components, such as valves, sight gages, liquid-level indicator, controller, pumps, filters, hoses, facilities and missile connections; decontamination of equipment and components; and use of protective clothing and equipment. Version 1: Topics include fundamentals, decontamination and cleaning of components, operation and maintenance of mobile equipment, and operation and maintenance of waste propellant disposal trainer and aerospace ground equipment; propellant transfer systems; and integrated operation and maintenance of propellant transfer system. Version 3: Topics include propellant transfer subsystems; operation of propellant system and component maintenance; and component decontamination and system maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical and aeronautical engineering technology (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in applied hydraulics or physical science (7/74); in the upper-division baccalaureate category, 3 semester hours in applied hydraulics or physical science (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in applied hydraulics or mechanical systems (7/74); in the upper-division baccalaureate category, 2 semester hours in applied hydraulics or mechanical systems (7/74).

AF-1601-0033

1. LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (LGM-25)
2. LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (LGM-25C)

(LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (SM-68B) (TITAN II))

3. LIQUID FUEL SYSTEMS MAINTENANCE SPECIALIST (SM-68B)


Objectives: To train personnel as liquid fuel systems maintenance specialists on specific weapon systems.

Instruction: All Versions: Lectures and practical exercises in the duties of liquid fuel systems maintenance specialist, including weapon system familiarization; characteristics of propellants peculiar to the system and safety hazards involved; operation of the mobile and facilities propellant transfer systems; maintenance of system components, such as valves, sight gages, liquid-level indicator, controller, pumps, filters, hoses, facilities and missile connections; decontamination of equipment and components; and use of protective clothing and equipment. Version 1: Topics include fundamentals, decontamination and cleaning of components, operation and maintenance of mobile equipment, and operation and maintenance of waste propellant disposal trainer and aerospace ground equipment; propellant transfer systems; and integrated operation and maintenance of propellant transfer system. Version 3: Topics include propellant transfer subsystems; operation of propellant system and component maintenance; and component decontamination and system maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical or aeronautical engineering technology (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical or aeronautical engineering technology (7/74). Version 3: In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical or aeronautical engineering technology (7/74).

AF-1601-0034

1. FUEL SPECIALIST (PETROLEUM FUELS)
2. FUEL SPECIALIST (CONVENTIONAL FUELS)
3. FUEL SPECIALIST (CONVENTIONAL FUELS)

(FUEL SUPPLY SPECIALIST CONVENTIONAL FUEL)

(PETROLEUM SUPPLY SPECIALIST)

4. PETROLEUM SUPPLY SPECIALIST


Objectives: To train airmen as fuel specialists.

Instruction: All Versions: Lectures and practical exercises in the duties of fuel specialists, including the receipt, handling, storage, and dispensing of fuel on the flight line. Version 2: Topics include mechanical and hydraulic systems and vehicle operations associated with transport and transfer of petroleum products on the flight line. Version 2: Topics include mechanical and hydraulic systems and vehicle operations associated with transport and transfer of petroleum products on the flight line.
COURSE EXHIBITS

systems, transport vehicle operations, and mobile servicing equipment operation and maintenance. Topics include introduction to fuel supply systems, storage and dispensing, packaged products, flight line practices, and refueling vehicle operation, inspection, and operator maintenance. Version 4: Topics include petroleum characteristics, safety, associated technical publications, bulk storage and dispensing, packaged products, flight line practices, and refueling vehicle operation, inspection, and maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in industrial or mechanical technology (7/74).

AF-1601-0038

PETROLEUM SYSTEMS MAINTENANCE TECHNICIAN

Course Number: SS56870-1.
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 4/57-12/68.

Objectives: To train enlisted personnel to inspect and maintain petroleum storage and dispensing equipment, oxygen-nitrogen defrost compressors, air dryers, and air-processing components; and maintenance of petroleum storage and dispensing facilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in mechanical or petroleum technology (7/74).

AF-1601-0039

PETROLEUM PLANTS AND SYSTEMS, ADVANCED MAINTENANCE

Course Number: ATS55870-12; ATS554670W-2.
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 5 weeks (150 hours).
Exhibit Dates: 11/60-12/68.

Objectives: To train enlisted personnel and civilians to supervise maintenance of conventional liquid fuel systems and plants.

Instruction: Lectures and practical exercises in the supervision of maintenance activities of conventional liquid fuel systems and plants, design and construction, maintenance, safety and fire characteristics, transportation facilities, basic hydraulics and pipelines, water demineralization, plant facility, storage tank units, dispensing systems design, mechanical fluid system, hydrant systems, troubleshooting and inspection.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in mechanical or petroleum technology (7/74).

AF-1601-0040

AVIATION FUEL MONITORING SPECIALIST

Location: Version 1: School of Applied Aerospace Sciences, Chanute AFB, IL.
Version 2: 3320th Technical School, Amarillo AFB, TX.
Length: Version 1: 3 weeks (110 hours). Version 2: 3 weeks (90 hours).

Objectives: To train airmen as fuel specialists.

Instruction: Lectures and practical exercises in the testing of aviation petroleum products for purity and content, including sampling and testing for solids, free water, fuel systems icing inhibitor content, total solids of demineralized water, pH, and chemical characteristics; use and care of fuel monitoring equipment; quality control; chemical mixing procedures; and the test system and use of the analytical balance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in petroleum product testing and physical science laboratory (7/74).

AF-1601-0041

SITE DEVELOPMENT SPECIALIST

Location: Version 1: School of Applied Aerospace Sciences, Sheppard AFB, TX.
Version 2: 3750th Technical School, Sheppard AFB, TX.
Version 3: 3750th Technical School, Sheppard AFB, TX.

Objectives: To train personnel as site development specialists.

Instruction: Version 1: Lectures and practical exercises on the performance of site development specialists, including fundametals of surveying, and construction surveys.

Version 1: Topics include construction layout and earthwork, soils engineering, pavements and concrete construction, basic drafting, construction drafting, and drafting and construction management. Version 2: Topics include construction layout and earthwork, soils engineering, pavements and concrete construction, basic drafting, construction drafting, and drafting and construction management.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in drafting, 4 in surveying, and 4 in construction materials (7/74); in the upper-division baccalaureate category, 3 semester hours in drafting, 3 in surveying, and 3 in construction materials (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in drafting, 4 in surveying, and 4 in construction materials (7/74); in the upper-division baccalaureate category, 6 semester hours in construction engineering (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 3 semester hours in drafting, 6 in surveying, and 1 in construction materials (7/74); in the upper-division baccalaureate category, 6 semester hours in construction engineering (12/68).

AF-1601-0042

INTELLIGENCE AREA STUDIES (SEA)

Location: 3415th Technical School, Lowry AFB, CO.
Length: Version 1: 3-4 weeks (102-120 hours). Version 2: 4 weeks (120 hours).
AF-1601-0043

1. FUELS MANAGEMENT OFFICER
   (PETROLEUM FUELS)
   (FUELS OFFICER (PETROLEUM FUELS))
   (FUELS OFFICER (CONVENTIONAL FUELS))
   (FUEL SUPPLY OFFICER)

   Course Number: Version 1: 30BR6331A
   Version 2: OBR6331A; OBR6471A; OBR6451.

   Location: Version 1: School of Applied Aerospace Sciences, Château AFB, IL;
   3345th Technical School, Chanute AFB, IL.
   Version 2: 3320th Technical School, Amarillo AFB, TX.

   Length: Version 1: 5 weeks (150-188 hours).
   Version 2: 5-6 weeks (150-180 hours).

   Objectives: To train selected enlisted personnel in fuels management.

AF-1601-0044

BASE CIVIL ENGINEER

Objectives: To train officers in civil engineering management.

Instruction: Lectures and practical exercises in civil engineering management, including functions of the Air Force civil engineer, supervisory management, real estate administration, fiscal budgeting, maintenance management, and control; engineering contracts, installations planning and military construction programs, operations and maintenance programming and project methodologies; comprehensive problems, security indoctrination, arctic orientation and construction techniques, and nuclear effects and recovery planning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in civil engineering management (7/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68).

AF-1601-0045

LIQUID FUELS SYSTEMS MAINTENANCE

- SPECIALIST, SM-65 AND SM-68

Course Number: ABR56830B.
Location: 3345th Technical School, Chanute AFB.

Length: 16 weeks (450 hours).

Objectives: To train officers in the operation and maintenance of various cryogenic liquid and high pressure gas transfer systems.

Instruction: Lectures and practical exercises in cryogenic liquid and high pressure gas transfer systems; proper procedures to insure safety and efficiency in removing fuels from missiles, and cleaning, degrading, and servicing propellant transfer systems.

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

AF-1601-0047

FUEL SPECIALIST (MISSILE LIQUID FUEL PROPPELLANT) (LGGM-25)

1. FUEL SPECIALIST (NONCONVENTIONAL FUELS) (SM-68B)
2. FUEL SPECIALIST (UNCONVENTIONAL FUELS) (SM-68B)

Course Number: Version 1: ALR6430B-1
Version 2: ALR6430B-2
Location: 3345th Technical School, Chanute AFB, IL.

Length: Version 1: 4 weeks (120 hours).
Version 2: 6 weeks (180 hours).

Objectives: To train the student in the handling of unconventional fluids and unstable missile fuels.

Instruction: All Versions: Major areas of instruction deal with safety and efficiency in storing, transferring, and disposing of unconventional fuels. Maintenance and vicing of specialized fuel handling and storage equipment is emphasized. Student becomes competent in the operation of transfer equipment and storage facilities.

Credit Recommendation: No credit because of the military-specific nature of the course (1/77).
1-66  COURSE EXHIBITS

AF-1606-0004
UNDERGRADUATE PILOT TRAINING (T-28A/ T-28B)
Course Number: P-V4B-D
Location: Air Training Command, Keeler AFB, MS
Length: 14 weeks (200 hours).
Exhibit Dates: 6/72-12/73.
Objectives: To train nonrated personnel from associations to qualify as rated pilots in single-engine reciprocating aircraft.
Instruction: Lectures and in-flight training in single-engine reciprocating engines, including principles of flight, flight systems, aerodynamics, instrument flight theory, navigation, meteorology, safety procedures, communication skills, defense and counterintelligence techniques, aviation law, and physical development and conditioning.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in flight training, 2 in instrument flight theory, 2 in navigation, 2 in meteorology (2/74).

AF-1606-0005
UNDERGRADUATE PILOT TRAINING HELICOPTER (T-28)
Course Number: 51-1021028
Location: Air Training Command, Randolph AFB, TX.
Length: 28 weeks (513 hours).
Exhibit Dates: 6/66-12/68.
Objectives: To provide officers with basic flight instruction, preparation to accompany subsequent training in helicopter aircraft.
Instruction: Training is equivalent to FAA private pilot with partial commercial pilot qualifications. Lectures and in-flight training in the basic principles of piloting aircraft, including aviation physiology, aerodynamics, instrument flight theory, navigation, meteorology, instrument procedures, flying safety and survival training, and physical development and conditioning.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in flight training, 2 in aircraft systems, 1 in aerodynamics, 3 in instrument flight theory, 3 in navigation, 2 in meteorology (2/74).

AF-1606-0006
1. UNDERGRADUATE PILOT TRAINING HELICOPTER (H-19/H-43B OR H-19/CH-3C)
   (HELICOPTER PILOT TRAINING, H-19/H-43B)
   (HELICOPTER PILOT TRAINING, H-19/H-21)
2. HELICOPTER PILOT TRAINING (H-13, H-19 AND H-21)
Course Number: Version 1: 1021028H. All Versions: 1021010
Location: Air Training Command, Stead AFB, NV.
Objectives: To train officers as helicopter pilots.
Instruction: Flight training, including basic helicopter training, instrument flying, night flying, and operational training; and lectures and practical exercises in first aid, instrument procedures and radio aids, and helicopter engineering.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in flight training, 2 in power plants/systems (2/74); in the upper-division baccalaureate category, credit in helicopter pilot training on the basis of institutional evaluation (12/68).
Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in flight training, 2 in power plants/systems (2/74); in the upper-division baccalaureate category, credit in helicopter pilot training on the basis of institutional evaluation (12/68).

AF-1606-0007
HELICOPTER PILOT TRAINING (H-19/H-43/H-19/H-3)
Course Number: 51-1021010
Location: Air Training Command, Sheppard AFB, TX.
Length: 12 weeks (268-318 hours).
Exhibit Dates: 11/66-12/68.
Objectives: To train fixed-wing aircraft pilots as helicopter pilots.
Instruction: Flight training in the techniques of flying rotary-winged aircraft and lectures on familiarization, engineering, and operational training.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in flight experience, 2 in rotor power theory and engineering (2/74); in the upper-division baccalaureate category, credit in helicopter piloting on the basis of institutional evaluation (12/68).

AF-1606-0008
HELICOPTER PILOT TRAINING (H-19/H-43B/H-19/CJ-3C)
Course Number: 51-1021010
Location: Air Training Command, Sheppard AFB, TX.
Length: 12 weeks (119-137 hours).
Exhibit Dates: 6/66-12/68.
Objectives: To train fixed-wing aircraft pilots to operate helicopters.
Instruction: Lectures and operational training in helicopter history and flight theory, navigation, and rotor-powered helicopter and synchropter engineering.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in flight training, 2 in rotor power engineering (2/74); in the upper-division baccalaureate category, credit in helicopter pilot training on the basis of institutional evaluation (12/68).

AF-1606-0009
HELICOPTER PILOT TRAINING (H-1/F/H-1/F/H-1/FH-3C)
Course Number: Version 1: F-V5E-B/C/D; F-V5F-B/C/D; F-V5F-B/C/D/E; F-V5F-B/C/D/E/F.
Location: Air Training Command, Sheppard AFB, TX.
Length: 10 weeks (213 hours).
Exhibit Dates: 3/54-12/68.
Objectives: To train fixed-wing aircraft pilots to operate helicopters.
Instruction: Lectures and operational training in helicopter theory and history, navigation, and synchropter and rotor powered engineering. Version 1: Includes operational training on a specific model helicopter.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in flight training, 2 in rotor power engineering (2/74); in the upper-division baccalaureate category, credit in helicopter pilot training on the basis of institutional evaluation (12/68).

AF-1606-0010
HELICOPTER PILOT TRAINING (CH-36)
Course Number: 51-1025002
Location: Air Training Command, Stead AFB, NV.
Length: 5 weeks (141 hours).
Exhibit Dates: 6/65-12/68.
Objectives: To train rated helicopter pilots in the operation of twin-engine, turbine powered, single-rotor aircraft.
Instruction: Flight training, including familiarization with dual instruments, engines, and flight operations, and lectures on familiarization and engineering.
Credit Recommendation: In the upper-division baccalaureate category, credit in helicopter pilot training on the basis of institutional evaluation (12/68).

AF-1606-0011
INSTRUMENT PILOT INSTRUCTOR TRAINING (T-38)
(INSTRUMENT PILOT INSTRUCTOR TRAINING (T-39))
(INSTRUMENT PILOT INSTRUCTOR TRAINING (T-38/T-39))
Course Number: F-V5G-A; 1104500H; 1111501Q
Location: Air Training Command, Randolph AFB, TX.
Length: 6-8 weeks (76-104 hours).
Exhibit Dates: 11/62-Present.
Objectives: To qualify pilots as instrument instructor pilots.
Instruction: Flight training and lectures on instruction principles and methods.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in principles and methods of instruction, 3 in flight instructor experience (2/74); in the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (2/74).

AF-1606-0012
ADVANCED PILOT TRAINING MULTI-ENGINE
T-29
Course Number: 51-104103-H
Location: Flying Training Air Force, Waco, TX.
Length: 10 weeks (213 hours).
Exhibit Dates: 3/54-12/68.
AF-1606-0013
ADVANCED PILOT TRAINING MULTI-ENGINE T-29 TRAINING

Course Number: None.
Location: Flying Training Air Force, Mather AFB, CA.
Length: 10 weeks (274 hours).
Exhibit Dates: 3/54-12/68.
Objectives: To train pilots in the operation of four-engine aircraft.

Instruction: Flight training experience and lectures on aircraft engines, propeller systems and instruments, and hydraulic and electrical systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in flight experience (2/74).

AF-1606-0014
ADVANCED PILOT TRAINING MULTI-ENGINE B-25

Course Number: 51-104104-I.
Location: Flying Training Air Force, James Connally AFB, TX; Flying Training Air Force, Mather AFB, CA.
Length: 10 weeks (216 hours).
Exhibit Dates: 3/54-12/68.
Objectives: To train personnel with basic flight training on B-25 aircraft.

Instruction: Flight training experience and lectures on flight regulations, flight planning, instruments, link trainer, survival training, and combat operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in flight experience (2/74).

AF-1606-0015
TANKER AIRCREW, KC-97.

Course Number: 123100KC.
Location: Air Training Command, Randolph AFB, TX.
Length: 10 weeks (321-380 hours).
Exhibit Dates: 1/57-12/68.
Objectives: To train aircrews in the procedures and techniques of aerial refueling.

Instruction: Lectures on aviation physiology, basic survival, aircraft performance, aerial refueling, and instrument flying; flight training, including mission preparation, navigation, and aerial refueling.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in flight qualification on four-engine aircraft (2/74).

AF-1606-0016
C-5 NAVIGATOR

Course Number: None.

Location: 443d Military Airlift Wing, Altus AFB, OK.
Length: 8 weeks (129 hours).
Exhibit Dates: 4/72-Present.
Objectives: To provide pilots with a practical knowledge of the normal and emergency functions of the C-141 aircraft.

Instruction: Lectures on aircraft instrumentation, engines, instrument landing systems, communication-navigation systems, integrated flight control systems, and aircraft performance.
C-5 PILOT

Objectives: To qualify non-rated officers as rated jet pilots.

Instruction: Lectures and practical exercises in basic flight maneuvers, instrument flight, navigation, weather, aerodynamics, aerospace physiology, aircraft systems operation, principles of flight, aural and visual code, flying safety, instrument procedures and radio aids, radar and flight planning.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in commercial pilot, 3 in instrument pilot, 3 in navigation, and 3 in meteorology (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in commercial pilot, 3 in instrument pilot, 3 in navigation, and 3 in meteorology (6/74); in the upper-division baccalaureate category, 3 semester hours in primary meteorology and navigation, and credit in advanced military at institutions which regularly offer such credit (12/68).

AF-1606-0023

C-5 PILOT

Course Number: None.
Location: 443d Military Airlift Wing, Altus AFB, OK.
Length: 4 weeks (127 hours).
Exhibit Dates: 2/72-Present.
Objectives: To train pilots in the operation of the C-5 aircraft.
Instruction: Flight and academic training, including an introduction to the C-5 aircraft and its systems, component parts, and normal and emergency functions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in flight experience (2/74).

AF-1606-0024

HC-130 RADIO OPERATOR ADVANCED FLYING (HC-130 RADIO OPERATOR (AIRCREW TRAINING))

(RADIO OPERATOR (HC-130 ARRS))

Course Number: 1-A293Y51; 29352E-1; 29352E-1. Location: Aerospace Rescue and Recovery Service, Kirtland AFB, NM; Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 8 weeks (103–150 hours).
Exhibit Dates: 7/71–Present.
Objectives: To train airmen to perform duties as radio operators in HC-130 aircraft.

Instruction: Flight training in navigation, search and orbit, intercept, lectures on general aircrew training, aircraft systems and emergency procedures, rescue operations, and communications procedures.

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

AF-1606-0025

HC-130 NAVIGATOR (AIRCREW TRAINING)

(NAVIGATOR ADVANCED FLYING (HC-130 ARRS))

Course Number: 1-1535X1; 1535X1-1.
Location: Aerospace Rescue and Recovery Service, Kirtland AFB, NM; Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 8 weeks (123–165 hours).
Exhibit Dates: 7/71–Present.
Objectives: To train airmen to serve as loadmasters in HC-130 aircraft.

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

AF-1606-0026

HC-130 AIRCRAFT COMMANDER (AIRCREW TRAINING)

(Pilot Advanced Flying (HC-130 ARRS))

Course Number: 1-1035B1; 1035B-1.
Location: Aerospace Rescue and Recovery Service, Kirtland AFB, NM; Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 8 weeks (126–156 hours).
Exhibit Dates: 7/71–Present.
Objectives: To train officers to perform duties as navigators in HC-130 aircraft.

Instruction: Flight experience in navigation, search and orbit, intercept, air refueling, lectures on general aircrew training, aircraft systems and emergency procedures, and rescue operations.

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

AF-1606-0027

HC-130 FLIGHT ENGINEER (AIRCREW TRAINING)

(FLIGHT ENGINEER ADVANCED FLYING (HC-130 ARRS))

Course Number: 1133X0A1; 1133X0; 43550A-1.
Location: Aerospace Rescue and Recovery Service, Kirtland AFB, NM; Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 8 weeks (94–134 hours).
Exhibit Dates: 7/71–Present.
Objectives: To train airmen to serve as flight engineers in HC-130 aircraft.

Instruction: Flight training in transition and navigation, aerial delivery, search and orbit, intercept and air refueling, lectures on general aircrew training, aircraft systems and emergency procedures, rescue operations, and cruise control.

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

AF-1606-0028

HC-130 LOADMASTER (AIRCREW TRAINING) (ADVANCED AIRCRAFT LOADMASTER (HC-130 ARRS))

(LOADMASTER ADVANCED LOADMASTER)

Course Number: 114706; 114X06; 60750-1; A60770-6.
Location: Aerospace Rescue and Recovery Service, Kirtland AFB, NM; Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 8 weeks (123–165 hours).
Exhibit Dates: 7/71–Present.
Objectives: To train airmen to serve as loadmasters in HC-130 aircraft.

Instruction: Flight training in navigation, aerial delivery, search and orbit, intercept and air refueling, lectures on general aircrew training, aircraft systems and emergency procedures, and tactical subsystem training.

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

AF-1606-0029

TRANSITION PILOT TRAINING (C-47)

Course Number: 51-104501P.
Location: Air Training Command, Randolph AFB, TX; Air Training Command, Moody AFB, GA.
Length: 6–8 weeks (100–223 hours).
Exhibit Dates: 8/61–12/68.

Objectives: To train pilots in the operation of multiengine aircraft.

Instruction: Flight training experience; lectures on aircraft engineering and flight planning.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in multiengine flight experience (2/74).

AF-1606-0030

AIRCRAFT OBSERVER TRAINING—PILOT

Course Number: 51-124101-1.
Location: Flying Training Air Force, James Connally AFB, TX.
Length: 24–27 weeks (387–413 hours).
Exhibit Dates: 4/54–12/68.

Objectives: To train qualified pilots as navigator/bombardiers.

Instruction: Lectures in dead-reckoning, celestial, grid, and radar navigation techniques; nuclear weapons delivery, bombing procedures, and radar target intelligence; and in-flight training in celestial, grid, and radar navigation and in integrated navigation and bombing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation (12/68).

AF-1606-0031

1. AIRCRAFT OBSERVER TECHNICAL UPGRADING

2. AIRCRAFT OBSERVER UPGRADE TRAINING

3. AIRCRAFT OBSERVER UPGRADE TRAINING

4. AIRCRAFT OBSERVER UPGRADE TRAINING

5. AIRCRAFT OBSERVER UPGRADE TRAINING

Location: Version 1: Flying Training Air Force, Mather AFB, CA; Flying Training Air Force, James Connally AFB, TX.
Length: Version 1: 941 hours.

Version 2: 51-152100P.
Location: Version 2: Flying Training Air Force, Ellington AFB, TX.
Length: Version 2: 941 hours.

Version 3: 51-152200P.
Location: Version 3: Flying Training Air Force, Harlingen AFB, TX.
Length: Version 3: 941 hours.

Version 4: 51-152200P.
Location: Version 4: Flying Training Air Force, James Connally AFB, TX.
Length: Version 4: 941 hours.

Version 5: 51-152200P.
Location: Version 5: Flying Training Air Force, Mather AFB, CA.
Length: Version 5: 941 hours.
AF-1606-0032

Flight Engineer Specialist, Reconnaissance Engine Aircraft

Course Number: 3ALR43555C-1.

Location: Department of Technical School, Sheppard AFB, TX.

Length: 10 weeks (300 hours).

Objectives: To train aircraft observers as aerial navigators.

Instruction: Lectures and flight experience in aircraft navigation techniques, including dead-reckoning, celestial, and grid navigation; equipment malfunction analysis; bomb theory and computations; radar intelligence; operational procedures involving radio and computer usage; and atomic, biological, and chemical warfare familiarization.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 12 semester hours in navigation (2/74); in the upper-division baccalaureate category, 5 semester hours in navigation, and credit in electricity on the basis of institutional evaluation (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 12 semester hours in navigation and credit in electricity (2/74); in the upper-division baccalaureate category, 5 semester hours in navigation, and credit in electricity on the basis of institutional evaluation (12/68).

AF-1606-0033

Primary-Basic Observer Cadet

Course Number: 51-153101-1.

Location: Flying Training Air Force, Ellington AFB, TX; Flying Training Air Force, Harvey AFB, TX; Flying Training Air Force, James Connally AFB, TX.

Length: 40-42 weeks (857-872 hours).

Objectives: To train aircraft observer preflight graduates and nonrated officers to perform as navigators.

Instruction: Lectures and practical experience in aircraft navigation, including electronic equipment utilization; meteorology; celestial, grid, and dead-reckoning navigation; radio and electronic equipment utilization; meteorology; celestial, grid, and dead-reckoning navigation; and radio operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 9 semester hours in navigation; 6 semester hours in meteorology; 2 in electronics (2/74); in the upper-division baccalaureate category, 6 semester hours in navigation, 2 in meteorology; 1 in electronics; and additional credit in electrical laboratory, on the basis of institutional evaluation (12/68).

AF-1606-0034

Primary-Basic Observer Cadet

Course Number: 431XE-1.

Location: 1550th Aircrew Training and Test Wing, Hill AFB, UT.

Length: 4-10 weeks (37-111 hours).

Objectives: To train aircraft observers in practical aircraft navigation, including electronic equipment utilization; meteorology; celestial, grid, and dead-reckoning navigation; radar systems; and radio operations.

AF-1606-0035

Helicopter Aircrew Training

Course Number: 431XD,E,F; 462XD; 923XD.

Location: Aerospace Rescue and Recovery Service, Scott AFB, IL.

Length: 4-8 weeks (120-240 hours).

Objectives: To train aircrews to perform as tactical helicopter crews.

Instruction: Flight training, lectures, and practical experience in flight operations, weapon systems and hilltops, refueling, and general aircrew procedures.

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

AF-1606-0036

Pilot Advanced Flying (H-3) Basic

Course Number: 1-69.

Location: Air Force

Length: 3 weeks (51 hours).

Objectives: To provide pilots with transition and technical training in H-3 and H-53 helicopters.

Instruction: Lectures and practical experience in aerial delivery, air refueling, ballistic, fire suppression, formation flying, gunnery, instruments, navigation, rescue operations, search and orbit, and tactical and transition training.

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

AF-1606-0037

Helicopter Mechanic Advanced Flying (H-53) ARRS

Course Number: 431XF-2; 431XF-1; 431XE-1.

Location: 1550th Aircrew Training and Test Wing, Hill AFB, UT.

Length: 4-10 weeks (37-111 hours).

Objectives: To train helicopter mechanics to repair, and serve as crew members on, H-3 and H-53 helicopters.

Instruction: Flight training, including flight preparation, ground operations, instrument procedures, and post-flight procedures, and lectures and practical experience in the repair of the Limted Night Recovery System (LNR).

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

AF-1606-0038

Medium Bomb-Transition Medium Bomb-Jet (Aircrew Commander/Pilot)

Course Number: 1-69.

Location: Air Training Command, McConnell AFB, KS.

Length: 1-6 weeks (110-200 hours).

Objectives: To provide pilots and navigators with B-47 aircrew transition training and general knowledge of B-47 systems and performance.

Instruction: Lectures and simulated flight training in B-47 aircraft; aircraft systems fundamentals, performance characteristics, bomb and navigation systems and procedures; high-altitude meteorology; jet instrument flight planning; gunnery system; and celestial navigation.
I-70 COURSE EXHIBITS

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

AF-1606-0039

1. MEDIUM BOMBARDMENT TRANSITION B-47 (AIRCRAFT OBSERVER)

- Aircr aft migration—medium bomb
- Aircraft observer

Course Number: 1231100B.
Location: Air Training Command, McConnell AFB, KS.
Length: 6 weeks.

Objectives: Provide pilots and navigators with B-47 bombing navigation system in-flight maintenance procedures and general knowledge of B-47 systems and performance.

Instruction: Lectures and simulated flight training in B-47 aircraft; aircraft systems fundamentals, performance characteristics, and bombing and navigation systems and procedures; and high-altitude meteorology.

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

AF-1606-0040

MEDIUM BOMBARDMENT, CONVENTIONAL B-29 FOUR-ENGINE TRANSITION (FLIGHT ENGINEER)

Course Number: 1231100C.
Location: Air Training Command, Randolph AFB, TX.
Length: 6 weeks.

Objectives: Provide flight engineers with B-29 transition training.

Instruction: Lectures and practical experience in emergency procedures, aircraft engines, electrical systems, propellers, instrumentation, cruise, control, and communications.

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

AF-1606-0041

MEDIUM BOMBARDMENT CONVENTIONAL B-29 FOUR-ENGINE TRANSITION (AIRCRAFT COMMANDER AND CO-PILOT)

Course Number: 1231100C.
Location: Air Training Command, Randolph AFB, TX.
Length: 6 weeks.

Objectives: Provide aircraft commanders and co-pilots with B-29 transition training.

Instruction: Lectures and practical experience in emergency procedures, instrument flying, weather, aircraft operation, crew management, flying safety, engines, electrical systems, propellers, instrumentation, and communications.

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

AF-1606-0042

MEDIUM BOMBARDMENT CONVENTIONAL B-29 FOUR-ENGINE TRANSITION (SCANNER GUNNER)

Course Number: 1231100C.
Location: Air Training Command, Randolph AFB, TX.
Length: 6 weeks.

Objectives: Provide scanner gunners with B-29 transition training.

Instruction: Lectures and practical experience in emergency procedures, aircraft operation, instruments, preflight inspection, electrical systems, engines, and propellers.

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

AF-1606-0043

MEDIUM BOMBARDMENT CONVENTIONAL B-29 FOUR-ENGINE TRANSITION (RADIO OPERATOR)

Course Number: 1231100C.
Location: Air Training Command, Randolph AFB, TX.
Length: 6 weeks.

Objectives: Provide radio operators with B-29 transition training.

Instruction: Lectures and practical experience in radio procedures and equipment, aural and visual code, preflight and chamber flight.

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

AF-1606-0044

MEDIUM TRANSPORT (C-119) TRANSITION (MEDIUM TRANSPORT (C-119) AIRCRAFT TRANSITION)

Course Number: 1051008.
Location: Air Training Command, Randolph AFB, TX.
Length: 6 weeks.

Objectives: Provide pilots with C-119 transport training.

Instruction: Lectures and practical experience in flight weather operations, aircraft recognition, troposcatter, aerial navigational techniques, operational navigation techniques, flight operation, and personnel recognition technology.

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

AF-1606-0045

RADAR INTERCEPT OFFICER TRAINING (MG-12/13)

Course Number: 1231103.
Location: Air Training Command, Randolph AFB, TX.
Length: 6 weeks.

Objectives: Provide radar intercept officers with MG-12/13 training.

Instruction: Lectures and practical experience in navigation and flight line orientation, basic and advanced intercept techniques; applied tactics; intercept techniques in flight; simulators; navigation and magnetism; circuits and voltmeter, ammeter, ohmmeter familiarization; vacuum tubes, diodes, tritons, tetrodes, pentodes, and cathodes; power supplies; amplifiers, oscillators, high-frequency circuits and systems; transmission line and waveguides; applied intercept techniques; aircraft and surface vessel recognition; and aircraft engineering.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity, and credit in electrical laboratory on the basis of institutional evaluation (3/74). Version 2: In the upper-division baccalaureate category, credit in navigation and electricity on the basis of institutional evaluation (12/68).

AF-1606-0046

ADVANCED OBSERVER INTERCEPT (ADVANCED OBSERVER, INTERCEPT TRAINING)

Course Number: 156102.
Location: Flying Training School, Connally AFB, TX.
Length: 16-21 weeks.

Objectives: To provide intelligence personnel with advanced training in the interpretation, storage, retrieving, and disseminating of intelligence information.

Instruction: Lectures and practical exercises in interpretation, processing, storage, retrieval, and dissemination of intelligence information, including introductory reconnaissance systems, automatic data processing, photogrammetry, applications of photo intelligence information, microscale photo interpretation, and physical factors in photo interpretation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in photo intel-
AF-1606-0048
DEFENSE SENSORS INTERPRETATION AND APPLICATIONS TRAINING (DSIAT) (OFFICER)

Course Number: OZR8011.
Location: Armed Forces Air Intelligence Training Center, Offutt AFB, NE.
Length: 12 weeks (480 hours).

Exhibit Dates: 10/64-12/68.
Objectives: To train officers to perform as photographic interpreters.

Instruction: Lectures and practical exercises in photo interpretation, including principles and equipment of reconnaissance systems, impact and significance of improved lens/film combinations, use of improved optical and measurement devices, microphotograph interpretation, automatic and electronic intelligence, interpretation, photogrammetry, and photo processing techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in photo intelligence (5/74); in the upper-division baccalaureate category, 2 semester hours in photo intelligence (12/68).

AF-1606-0051
DEFENSE SENSORS INTERPRETATION AND APPLICATIONS TRAINING (DSIAT) (AIRMAN)

Course Number: AZR20670.
Location: Armed Forces Air Intelligence Training Center, Offutt AFB, NE.
Length: 11 weeks (440 hours).

Exhibit Dates: 10/64-12/68.
Objectives: To train enlisted personnel to perform as photographic interpreters.

Instruction: Lectures and practical exercises in photo interpretation, including principles and equipment of reconnaissance systems, impact and significance of improved lens/film combinations, use of improved optical and measurement devices, microphotograph interpretation, automatic and electronic intelligence interpretation, photogrammetry, and photograph processing techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in photo intelligence (5/74); in the upper-division baccalaureate category, 2 semester hours in photo intelligence (12/68).

AF-1606-0052
AIR INTELLIGENCE OFFICER

1. AIR INTELLIGENCE OFFICER
2. INTELLIGENCE OFFICER

Course Number: Version 1: 3OBR8051-1; OBR8051-2.
Version 2: OBR2051-1; OBR2051-2.

Location: Version 1: 375th Technical School, Sheppard AFB, TX.
Version 2: 375th Technical School, Sheppard AFB, TX.


Objectives: To train officers to perform as intelligence officers and intelligence photo-radar officers.

Instruction: All Versions: Lectures and practical exercises in photo-radar intelligence operations and principals, including image interpretation, radar and intelligence analysis, prediction and targeting, automatic data processing and computer programming as applied to intelligence systems, mission planning, and intelligence operations in aerial and radar systems. Version 1: Includes tactical interpretation, photogrammetry, multisensor interpretation, briefing and transportation procedures, and intelligence industries. Version 2: In the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AF-1606-0053
INDUSTRIAL PHOTO INTERPRETATION AND BOMB DAMAGE ASSESSMENT

Course Number: OTS8000-12.

Location: 3750th Technical School, Sheppard AFB, TX.
Length: 6 weeks (180 hours).

Exhibit Dates: 12/61-12/68.
Objectives: To train enlisted personnel to interpret surface transportation and industrial installations and to assess nonnuclear bomb damage from aerial photography.

Instruction: Lectures and practical exercises in surface transportation, basic industries, end-product industries, and nonnuclear bomb damage assessment by aerial photographic interpretation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in photographic interpretation (5/74); in the upper-division baccalaureate category, credit in photographic interpretation on the basis of institutional evaluation (12/68).

AF-1606-0054
AIR INTELLIGENCE OFFICER

Course Number: OTR8054.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12 weeks (360 hours).
Exhibit Dates: 12/61-12/68.
Objectives: To train officers to be air intelligence officers.

Instruction: Lectures and practical exercises in air intelligence processes, maps, charts, and photographic radar interpretation, the communist threat; targeting and weapons employment planning, and combat mission activities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in intelligence methods (5/74); in the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AF-1606-0055
AIR INTELLIGENCE OFFICER

Course Number: 3OBR8051-2.
Location: 3750th Technical School, Lowry AFB, CO.
Length: 20 weeks (620 hours).
Exhibit Dates: 7/70-12/73.
Objectives: To train officers to be intelligence officers on staff and operational units.

Instruction: Lectures in intelligence fundamentals, photometric data processing as applied to intelligence, imagery interpretation fundamentals, targeting, weapons employment planning, survival techniques, evasion procedures, resistance and escape, integrated operational intelligence systems, and intelligence officer responsibilities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in photo interpretation and intelligence methods (5/74); in the upper-division baccalaureate category, 3 semester hours in photo interpretation and intelligence methods (12/68).

AF-1606-0056
INTELLIGENCE PRECISION PHOTOGRAPHIC OFFICER

Course Number: 3OBR8061.
Location: School of Applied Aerospace Sciences, Lowry AFB, CO.
Length: 13 weeks (396 hours).
Exhibit Dates: 1/73-1/73.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in photo interpretation and intelligence methods (5/74); in the upper-division baccalaureate category, 6 semester hours in photo interpretation and intelligence methods (12/68).
1-72  COURSE EXHIBITS

Objectives: To train enlisted personnel to be intelligence precision photographic officers.

Instruction: Lectures and practical exercises in photography introduction; directional techniques; chemical control techniques, and precision control techniques; color photography fundamentals; photographic unit management and administration, light theory; printing and developing techniques; sensorimetry and sensorimetry techniques; titling, plotting, and forwarding aerial film; and airborne intelligence imagery systems.

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

AF-1606-0057
RECONNAISSANCE STAFF OFFICER
Course Number: 30Z1R1400.
Location: 3515th Technical School, Lowry AFB, CO.
Exhibit Dates: 11/68-12/73.
Objectives: To train commanders, operators, and staff officers in reconnaissance and reconnaissance/intelligence cycle elements and functions.

Instruction: Lectures in reconnaissance systems, roles and missions, administration and security, maps and charts, communications intelligence, multisensor reconnaissance interpretation, tactical reconnaissance/intelligence cycle, tactical air control system and air role in battlefield reconnaissance, vertical photographic interpretation, reconnaissance vehicles, and research and development.

Credit Recommendation: No credit because of the limited specialized nature of the course (5/74).

AF-1606-0058
PHOTO INTERPRETATION TECHNICIAN
Course Number: ATS20650-2.
Location: 3750th Technical School, Sheppard AFB, TX.
Exhibit Dates: 9/61-12/68.
Objectives: To train enlisted personnel in photographic interpretation fundamentals.

Instruction: Lectures in photometrics, photographic mission planning, use of maps and charts, film titling and plotting, aerial photographic interpretation, vertical and oblique metrics, nuclear weapons orientation, military equipment and installations, and intelligence reporting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in photographic interpretation (5/74); in the upper-division baccalaureate category, credit in photographic interpretation on the basis of institutional evaluation (12/68).

AF-1606-0059
1. PHOTOGRAPHIC INTELLIGENCE OFFICER
   1. PHOTOGRAPHIC INTELLIGENCE AIRMAN
2. INTELLIGENCE OPERATIONS SPECIALIST

Location: Version 1: School of Applied Aerospace Sciences, Lowry AFB, CO. All Versions: 3415th Technical School, Sheppard AFB, TX.

Objectives: To train enlisted personnel to perform intelligence operations and photographic and radar interpretation.

Instruction: Lectures and practical exercises in intelligence fundamentals; map, photographic, and radar interpretation; intelligence collection and dissemination; intelligence estimating and graphic studies; and mission planning and targeting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in photographic interpretation (5/74); in the upper-division baccalaureate category, 4 semester hours in photographic interpretation (12/68). In the lower-division baccalaureate/associate degree category, 6 semester hours in intelligence methods (5/74); in the upper-division baccalaureate category, 3 semester hours in intelligence methods (12/68).

AF-1606-0060
INTELLIGENCE OPERATIONS SPECIALIST
Course Number: 3ABR20430.
Location: 3415th Technical School, Lowry AFB, CO.

Exhibit Dates: 7/70-12/73.
Objectives: To train enlisted personnel to assist in intelligence production management.

Instruction: Lectures in organization for intelligence, handling and safeguarding intelligence information, target planning, training personnel in intelligence, imagery intelligence, administrative documents preparation, oral presentations, electronic data processing and data-handling systems, and the organization and mission of intelligence agencies.

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

AF-1606-0061
1. IMAGERY INTELLIGENCE OFFICER
2. INTELLIGENCE PHOTO-RADAR OFFICER
Course Number: 30BR8041.


Objectives: To train airborne pilots to perform reconnaissance missions.

Instruction: Lectures and practical exercises in reconnaissance operations fundaments, basic coordination systems, automatic data processing, photogrammetry, tactical photographic mission planning, imagery interpretation, radar operations, and multisensor imagery reporting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in military science (5/74); in the upper-division baccalaureate category, 3 semester hours in political science (11/77); in the lower-division baccalaureate/associate degree category, 3 semester hours in political science (1/74); in the upper-division baccalaureate category, 3 semester hours in political science (1/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in maps and photography, 1 in automatic data processing, 1 in radar or electronics (5/74).

AF-1606-0062
INTELLIGENCE OPERATIONS TECHNICIAN
Course Number: AT20450-1.
Location: 3750th Technical School, Sheppard AFB, TX.

Exhibit Dates: 9/61-12/68.
Objectives: To train airborne pilots to perform reconnaissance missions.

Instruction: Lectures in oral briefing preparation techniques, aircraft recognition; intelligence organizations and functions; the intelligence cycle and process; maps and charts; combat survival; tactical air defense operations; introduction to photographic interpretation; and Soviet radar, flak, and electronic countermeasures.

Credit Recommendation: No credit because of the limited specialized nature of the course (5/74).

AF-1606-0063
HELICOPTER INSTRUCTOR PILOT TRAINING
Course Number: H1PN, H1PNA, H1PFF, H1PFPA; H13P1, H13P2; H15SP1, H15SP2.
Location: Aerospace Rescue and Recovery Service, Kirtland AFB, NM.

Exhibit Dates: 8/77-Present.
Objectives: To train helicopter pilots to perform instructor duties.

Instruction: Subjects covered include systems transition, procedures, instrument operations, and general aircrew training on the specific helicopter system.

Credit Recommendation: No credit because of the military-specific nature of the course (11/77).

AF-1606-0064
FLIGHT MECHANIC ADVANCED FLYING
Course Number: H53M1, H53M2.
Location: Aerospace Rescue and Recovery Service, Kirtland AFB, NM.

Exhibit Dates: 8/77-12/73.
Objectives: To qualify pilots in the H-53 helicopter.

Instruction: Subjects covered include systems transition, procedures, instrument operations, and general aircrew training on the specific helicopter system.

Credit Recommendation: No credit because of the military-specific nature of the course (11/77).

AF-1606-0065
PILOT ADVANCED FLYING
Course Number: H53P1, H53P2.
Location: Aerospace Rescue and Recovery Service, Kirtland AFB, NM.

Exhibit Dates: 8/77-12/73.
Objectives: To qualify pilots in the H-53 helicopter.

Instruction: Subjects covered include systems transition, procedures, instrument operations, and general aircrew training on the specific helicopter system.

Credit Recommendation: No credit because of the military-specific nature of the course (11/77).
AF-1606-0066

HELICOPTER INSTRUCTOR PILOT (H-1, H-4F, CH-3, CH-53, HH-53)

Course Number: 1025D; 1025DAN; 1025DAF; 1025EI; 1025E2/3; 1025F1; 1025F2.

Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.

Length: 2-4 weeks (40-178 hours).

Exhibit Dates: 10/75-Present.

Objectives: To train and qualify helicopter pilots as instructor pilots.

Instruction: Traditional and practical exercises in flight instructor training. Course includes aerodynamics, fundamentals of instruction, and engineering of specific aircraft. Topics include instrument familiarization, intercept techniques, tactics, and specific equipment engineering instruction.

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

AF-1606-0068

HELICOPTER PILOT INSTRUCTOR TRAINING (H-43/T-43/CH-3)

Course Number: F-V5E-C/D/E.

Location: Air Training Command, Sheppard AFB, TX.

Length: 6 weeks (367 hours).

Exhibit Dates: 4/70-12/73.

Objectives: To provide pilots with training in helicopter crew duties in specific interceptor aircraft and weapon systems.

Instruction: Lectures and practical exercises in crew duties in specific interceptor aircraft, including flight instrument fundamentals, navigation, meteorology, formation flying, interception techniques, tactics, rocketry, and specific equipment engineering instruction.

Credit Recommendation: No credit because of the limited specialized nature of the course (11/77).

AF-1606-0069

COMBAT CREW TRAINING FIGHTER (F-84F)

Course Number: 112101A.

Location: Air Training Command, Luke AFB, AZ.

Length: 18 weeks (548 hours).

Exhibit Dates: 11/54-12/68.

Objectives: To provide pilots with training in F-84F aircraft and weapon systems.

Instruction: Lectures and flight training in F-84F aircraft, including bombing, rocketry, gunnery, navigation, special weapons training, applied tactics, air combat maneuvering, and instruments operation.

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

AF-1606-0070

COMBAT CREW TRAINING FIGHTER (T-33/F-84)

Course Number: 112103A.

Location: Air Training Command, Luke AFB, AZ.

Length: 6-12 weeks (202-387 hours).

Exhibit Dates: 1/55-12/68.

Objectives: To train pilots to operate jet fighter aircraft and weapon systems.

Instruction: Lectures and flight training in fighter jet aircraft operation, including gunnery, applied tactics, instrument operation, formation flying and aeronautics, synthetic instrument training, intelligence, physiological training, and flying safety.

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

AF-1606-0071

USAF COMBAT FLYING SCHOOL, INTERCEPTOR (T-33/F-89D)—RADAR OBSERVER

Course Number: 112104B.

Location: Air Training Command, Moody AFB, GA.

Length: 14 weeks (439 hours).

Exhibit Dates: 12/56-12/68.

Objectives: To train rated pilots to operate T-33 and F-89D aircraft.

Instruction: Lectures and practical exercises in pilot duties in specific interceptor aircraft, including flight instrument fundamentals, navigation, meteorology, formation flying, interception techniques, tactics, rocketry, and specific equipment engineering instruction.

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

AF-1606-0072

USAF COMBAT FLYING SCHOOL, INTERCEPTOR (T-33/F-89D)—RADAR OBSERVER

Course Number: 112104F-1.

Location: Air Training Command, Mather AFB, CA.

Length: 7 weeks (276 hours).

Exhibit Dates: 12/68.

Objectives: To train rated radar observers to perform as operationally ready crew members in T-33 and F-89D aircraft.

Instruction: Lectures and practical exercises in crew duties in specific intercepto aircraft, including instrument familiarization, interception techniques, tactics, rocketry, weather and weather flight, and specific equipment engineering instruction.

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

AF-1606-0076

ADVANCED OBSERVER, TACTICAL RECONNAISSANCE AND BOMBARDMENT TRAINING

Course Number: 152101F-1.

Location: Air Training Command, Mather AFB, CA.

Length: 20 weeks (586 hours).

Exhibit Dates: 2/55-12/68.

Objectives: To train enlisted personnel to perform as tactical reconnaissance and bombardment specialists.

Instruction: Lectures and practical exercises in the duties of reconnaissance and bombardment specialists. Course includes specialized training in K-system bombing and reconnaissance, SHORAN navigation, and material related to atomic, chemical, and biological warfare.

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

AF-1606-0077

ADVANCED OBSERVER, STRATEGIC RECONNAISSANCE AND BOMBARDMENT TRAINING

Course Number: 152102F.

Location: Air Training Command, Moody AFB, GA.

Length: 25 weeks (736 hours).

Exhibit Dates: 2/55-12/68.

Objectives: To train enlisted personnel to perform as tactical reconnaissance and bombardment specialists.

Instruction: Lectures and practical exercises in the duties of reconnaissance and bombardment specialists. Course includes specialized training in K-system bombing and reconnaissance, SHORAN navigation, and material related to atomic, chemical, and biological warfare.

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

AF-1606-0078

USAF COMBAT FLYING SCHOOL, INTERCEPTOR (T-33/F-94C)—RADAR OBSERVER

Course Number: 112103B.

Location: Air Training Command, Moody AFB, GA.

Length: 14 weeks (429 hours).

Exhibit Dates: 11/56-12/68.

Objectives: To train rated pilots in combat flying techniques.

Instruction: Lectures and practical exercises in combat flying techniques. Topics include flight instrument fundamentals, navigation, meteorology, formation flying, intercept techniques, tactics, and rocketry.

Credit Recommendation: No credit because of the military nature of the course (12/68).
**AF-1606-0077**

**INTERCEPTOR PILOT TRAINING (F-86L)**

**Course Number:** 112100A

**Location:** Air Training Command, Perrin AFB, TX; Air Training Command, Moody AFB, GA.

**Length:** 22 weeks (624 hours)

**Exhibit Dates:** 6/58-12/68

**Objective:** To train rated jet pilots to be alert ready on F-86L equipment.

**Instruction:** Lectures and practical exercises in the operation of jet aircraft instrumentation, including basic instrument flying, navigation, instrument landing systems, meteorology and weather flying techniques, and equipment construction.

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

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**AF-1606-0078**

**INSTRUMENT PILOT, JET**

**Course Number:** 112103.

**Location:** Air Training Command, Perrin AFB, TX; Air Training Command, Tyndall AFB, FL.

**Length:** 6 weeks (142–153 hours)

**Exhibit Dates:** 7/54-12/68.

**Objective:** To train rated pilots to operate jet aircraft instrumentation.

**Instruction:** Lectures and practical exercises in the operation of jet aircraft instrumentation, including basic instrument flying, radio navigation, instrument landing systems, meteorology and weather flying techniques, and equipment construction.

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

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**AF-1606-0079**

**BASIC OBSERVER RECONNAISSANCE BOR:**

**Course Number:** 152190F.

**Location:** Air Training Command, James Connally AFB, TX.

**Length:** 26 weeks (756 hours)

**Exhibit Dates:** 1/54-12/68.

**Objective:** To train primary observer course graduates in aircraft observation and reconnaissance.

**Instruction:** Lectures and practical exercises in navigation, bombing, radar, and special and photo reconnaissance missions, including navigation, reconnaissance, radar flight missions, bombing, air navigation techniques, reconnaissance equipment, mission planning, air procedures, and weather reporting.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation (6/74); in the upper-division baccalaureate category, credit in navigation on the basis of institutional evaluation (12/68).

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**AF-1606-0080**

**NAVIGATOR BOMBARDIER AN/ASQ-38 (V)**

**Course Number:** B-V7A-S-O; B-V7A-S; 51B-V7A-B; B-V7A-A; 152106B.

**Location:** Air Training Command, Mather AFB, CA.

**Length:** 13–28 weeks (347–701 hours)

**Exhibit Dates:** 8/65–Present

**Objective:** To train navigators to perform as navigator-bombardiers on aircraft equipped with the AN/ASQ-38 weapons control system.

**Instruction:** Lectures and practical exercises on the functions of navigator-bombardiers, including AN/ASQ-38 computers, radar, ancillary equipment, operations and malfunction analysis, AGM-28 grid, solo navigation and bombing; integrated navigation and bombing bomb navigation systems, and basic and advanced operations.

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

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**AF-1606-0082**

**USAF COMBAT FLYING SCHOOL, INTERCEPTOR (F-94C)—PILOT**

**Course Number:** 112101B.

**Location:** Air Training Command, Moody AFB, GA.

**Length:** 14–18 weeks (420–461 hours)

**Exhibit Dates:** 4/54–12/68.

**Objective:** To train pilots to operate F-94C jet interceptor aircraft under all weather conditions.

**Instruction:** Lectures and practical exercises in the operation of F-94C jet interceptor aircraft under all weather conditions, including instrumentation, target flying, operation of specific aircraft systems, navigational aids, techniques in weather flying, engineering systems in specific equipment, airborne interception, intelligence, applied tactics, and rocketry.

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

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**AF-1606-0083**

**USAF COMBAT FLYING SCHOOL, INTERCEPTOR (F-94C)—RADAR OBSERVER**

**Course Number:** 112101B.

**Location:** Air Training Command, Moody AFB, GA.

**Length:** 14–18 weeks (301–359 hours)

**Exhibit Dates:** 4/54–12/68.

**Objective:** To train radar observers to operate equipment in the F-94C aircraft in all-weather flight conditions.

**Instruction:** Lectures and practical exercises in F-94C equipment operation in all-weather flight conditions, including instrumentation, target flying, operation of specific aircraft systems, navigational aids, weather and techniques in all-weather flight, engineering systems in specific equipment, airborne interception, intelligence, applied tactics, and rocketry.

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

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**AF-1606-0087**

**USAF ADVANCED FLYING SCHOOL, INTERCEPTOR (F-89D)—PILOT**

**Course Number:** 112102B.

**Location:** Air Training Command, Mather AFB, CA.

**Length:** 14–18 weeks (458–482 hours)

**Exhibit Dates:** 4/54–12/68.

**Objective:** To train pilots to operate the F-89D jet interceptor under all weather conditions.

**Instruction:** Lectures and practical exercises in F-89D equipment operation in all-weather flight conditions, including flight instruments, target flying, operation of specific aircraft systems, navigational aids, weather and techniques in all-weather flight, engineering systems in specific equipment, airborne interception, intelligence, applied tactics, interception techniques, and rocketry.

**Credit Recommendation:** No credit because of the military nature of the course (12/68).
AF-1606-0092
ADVANCED OBSERVER STRATEGIC BOMBARDMENT
Course Number: 152101A
Location: Air Training Command, Mather AFB, CA.
Length: 20 weeks (508 hours).
Exhibit Dates: 5/35-12/68.
Objectives: To train rated observers to perform as navigator-bombardiers, in strategic bombardment aircraft.
Instruction: Lectures and practical exercises in the duties of a navigator-bombardier. Topics include radar target intelligence, K-System operation, and atomic, chemical, and biological warfare.
Credit Recommendation: No credit because of the military nature of the course (12/68).

AF-1606-0093
EXPERIMENTAL TEST PILOT
Course Number: 1344.
Location: Air Training Command Edward's AFB, CA.
Length: 36 weeks (380 hours).
Exhibit Dates: 7/62-12/68.
Objectives: To train pilots to fly experimental aircraft.
Instruction: Lectures and practical exercises in piloting experimental aircraft. Topics include advanced aerodynamics, advanced physics, and performance flight test experience.
Credit Recommendation: In the upper division baccalaureate category, credit in aerodynamics (including aeronautics) is on the basis of institutional evaluation (12/68).

AF-1606-0095
FLEXIBLE GUNNERY TRAINING TURRET SYSTEM MECHANIC GUNNER, B-36
Course Number: ZZ32351A
Location: 3415th Technical School, Lowry AFB, CO.
Length: 8 weeks (240 hours).
Exhibit Dates: 5/54-12/68.
Objectives: To train enlisted personnel to perform as aerial gunners.
Instruction: Lectures and practical exercises in aerial gunnery. Topics include operation, inspection, maintenance of gunlaying equipment, and the principles, procedures, and techniques of aerial gunnery.
Credit Recommendation: No credit because of the military nature of the course (12/68).

AF-1606-0098
GUNLAYING SYSTEM MECHANIC GUNNER, B-36 (FLEXIBLE GUNNERY TRAINING GUNLAYING SYSTEM MECHANIC GUNNER, B-36)
Course Number: ZZ32351B
Location: 3415th Technical School, Lowry AFB, CO.
Length: 8 weeks (240 hours).
Exhibit Dates: 5/54-12/68.
Objectives: To train enlisted personnel to operate, inspect, and maintain gunlaying equipment.
Instruction: Lectures and practical exercises in gunlaying equipment. Topics include operation, inspection, and maintenance of gunlaying equipment, and the principles, procedures, and techniques of aerial gunnery.
Credit Recommendation: No credit because of the military nature of the course (12/68).

AF-1606-0099
PRIMARY PILOT TRAINING (T-34/T-28)
Course Number: 112101-1.
COURSE EXHIBITS

LOCATION: Air Training Command, Columbus AFB, MS; Air Training Command, Balmbridge AFB, GA; Air Training Command, Bartow AFB, FL; Air Training Command, Grahams AFB, FL; Air Training Command, Hondo AFB, TX; Air Training Command, Malen AFB, MO; Air Training Command, Marana AFB, AZ; Air Training Command, Monroe AFB, TX; Air Training Command, Spence AFB, GA; Air Training Command, Stallings AFB, NC.

LENGTH: 24 weeks (549 hours).

OBJECTIVES: To train cadets in visual and instrument flight.

INSTRUCTION: Lectures and practical exercises in visual and instrument flight. Topics include basic and instrument flight, aircraft engineering, radio communications, principles of flight, flight instruments, navigation, and weather.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 3 semester hours in flight training, 3 in meteorology, and 3 in navigation (6/74); in the upper-division baccalaureate category, 2 semester hours in primary meteorology and navigation, and credit in advanced military at institutions which regularly offer such credit (12/68).

AF-1606-0100
INTERCEPTOR PILOT TRAINING (F-102)

COURSE NUMBER: 112100D.

LOCATION: Air Training Command, Perrin AFB, TX.

LENGTH: 22 weeks (619 hours).

OBJECTIVES: To train officers as interceptors.

INSTRUCTION: Lectures and practical exercises in interceptor aircraft operation. Topics include jet flight planning, maintenance concerns, radar intercept training, and applied tactics.

CREDIT RECOMMENDATION: No credit because of the military nature of the course (12/68).

AF-1606-0101
PILOT INSTRUCTOR TRAINING (T-38)

COURSE NUMBER: F111509Q.

LOCATION: Air Training Command, Randolph AFB, TX; Air Training Command, Undergraduate Pilot Training Bases.

LENGTH: 5-6 weeks (140-148 hours).

OBJECTIVES: To train undergraduate pilot training instructors as instructors in T-38 aircraft.

INSTRUCTION: Lectures and practical exercises in instruction techniques and procedures for flying T-38 aircraft, including formation flying, instrument flying, and navigation. Academic training includes aviation physiology, instrument procedures and radio aids, aircraft engineering, applied aerodynamics, and flight planning.

CREDIT RECOMMENDATION: No credit because of the specialized nature of the course (12/68).

AF-1606-0102
JET QUALIFICATION TRAINING (T-33)

COURSE NUMBER: 111500Q; 112110; 112110-1.

LOCATION: Air Training Command, Randolph AFB, TX; Air Training Command, Craig AFB, TX.

LENGTH: 4-7 weeks (114-167 hours).

OBJECTIVES: To train pilots to operate the F-86F jet fighter aircraft.

INSTRUCTION: Lectures and practical exercises in the operation of the F-86F fighter aircraft including flying training; ground support and aerial combat training; instruments, air-to-air and air-to-ground gunnery; applied tactics; armament, aircraft operation and maintenance; tactical intelligence; special weapons training, and physiological indoctrination.

CREDIT RECOMMENDATION: No credit because of the specialized nature of the course (12/68).

AF-1606-0103
OFFICER PRE-FLIGHT TRAINING (PILOT)

COURSE NUMBER: 111100B; ZZ121100B; OPM1100; 52-OB0010.

LOCATION: Air Training Command, Lackland AFB, TX.

LENGTH: 4 weeks (118-160 hours).

OBJECTIVES: To prepare AFROTC graduates for officers' duties and to provide primary pilot training.

INSTRUCTION: Lectures and practical exercises on officers' duties and responsibilities and primary pilot training, including air power and science, drill and ceremonies, flight training, pay and allowances, physical training, special projects, small arms, troop duty, combat problems, voice command, military training time, and parachute jumping techniques.

CREDIT RECOMMENDATION: No credit because of the specialized nature of the course (12/68).

AF-1606-0104
OFFICER PRE-FLIGHT TRAINING (NAVIGATOR)

COURSE NUMBER: 150000; ZZ121100C; ZZ121100D.

LOCATION: Air Training Command, Lackland AFB, TX.

LENGTH: 4 weeks (160 hours).

OBJECTIVES: To prepare commissioned graduates and Air National Guard Officers with officer pre-flight training (pilot and navigator).

INSTRUCTION: Lectures and practical exercises on pilot and navigator pre-flight training, including officer responsibilities, leadership problems, aviation physiology, drills and ceremonies, physical training, air power and science, navigator training orientation, officer responsibilities, pay and allowances, parachute jumping techniques, special projects, small arms, and troop duty.

CREDIT RECOMMENDATION: No credit because of the specialized nature of the course (12/68).

AF-1606-0105
USAF ADVANCED FLYING SCHOOL, FIGHTER F-86F

COURSE NUMBER: 1121102.

LOCATION: Air Training Command, Williams AFB, AZ; Air Training Command, Nellis AFB, NV.

LENGTH: 12-20 weeks (447-526 hours).

OBJECTIVES: To train pilots to operate the F-86F jet fighter aircraft.

INSTRUCTION: Lectures and practical exercises in the operation of the F-86F fighter aircraft including flying training; ground support and aerial combat training; instruments, air-to-air and air-to-ground gunnery; applied tactics; armament, aircraft operation and maintenance; tactical intelligence; special weapons training, and physiological indoctrination.

CREDIT RECOMMENDATION: No credit because of the specialized nature of the course (12/68).

AF-1606-0106
1. NAVIGATOR BOMBARDIER TRAINING
2. NAVIGATOR BOMBARDIER TRAINING (MA-6A/A)
3. ADVANCED NAVIGATOR RECONNAISSANCE BOMBARDMENT
4. ADVANCED NAVIGATOR RECONNAISSANCE BOMBARDMENT


LOCATION: Air Training Command, Mather AFB, CA.


OBJECTIVES: To train rated navigators to use computer radar bombing and navigation systems.

INSTRUCTION: All Versions: Lectures and practical exercises in radar navigation and bombing systems, grid navigation, tactical reconnaissance, system computers and interconnect equipment, and operating procedures. Version 1 includes electricity and magnetism, electrical laboratory, and radar fundamentals. Version 3 includes electricity and magnetism, electrical laboratory, radar fundamentals, and navigation. Version 4 includes navigation.

CREDIT RECOMMENDATION: No credit because of the military nature of the course (12/68).

Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electricity and credit in electrical laboratory on the basis of institutional evaluation (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and credit in electrical laboratory on the basis of institutional evaluation (12/68). Version 4: In the lower-division baccalaureate/associate degree category, 2 semester hours in navigation (6/74); in the upper-division baccalaureate category, 5 semester hours in navigation (12/68).
AF-1606-0107
USAF ADVANCED FLYING SCHOOL, Fighter (F-86)

Course Number: 112104A
Location: Air Training Command, Nellis AFB, NV.
Length: 6 weeks (217 hours).
Exhibit Dates: 2/55-12/68.
Objectives: To train pilots to operate F-86 jet fighter aircraft.
Instruction: Lectures and practical exercises in the operation of F-86 jet aircraft, including systems familiarization, formation, instrument, T-33), air-to-air and air-to-ground gunnery, applied tactics, armament and fighter gunnery, tactics, operations, physiological indoctrination, and flying safety.

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

AF-1606-0108
USAF ADVANCED FLYING SCHOOL, Interceptor (T-33/F-86L)
scientist, F-86D/L)

Course Number: 112102C
Location: Air Training Command, Moody AFB, GA; Air Training Command, Perrin AFB, TX; Air Training Command, Tyndall AFB, FL.
Length: 18 weeks (515-574 hours).
Exhibit Dates: 7/54-12/68.
Objectives: To train jet pilots to be alert ready in specific interceptor aircraft.
Instruction: Lectures, practical exercises and aircraft proficiency training in specific interceptor aircraft. Topics include engine, airborne intercept, radar, navigation, applied tactics, conversion techniques, flight simulators, aircraft, and familiarization.

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

AF-1606-0109
AVIATION CADET PRE-FLIGHT (PILOT AND NAVIGATOR) (AVIATION CADET PRE-FLIGHT (PILOT)) (PREFLIGHT TRAINING FOR AVIATION CADETS)

Course Number: 111100A; 150000A; APMD100; 112100; ZZ112100; P-O.
Location: Air Training Command, Lackland AFB, TX.
Length: 12 weeks (446-528 hours).
Exhibit Dates: 4/55-12/68.
Objectives: To prepare pre-flight aviation cadets for training at flying training bases.
Instruction: Lectures and practical exercises in pilot training, including AF career, training, aviation science, leadership, marksmanship, small arms, parachute landing, technical program and squadron orientation, physical training, drill and command, inspections and parades, customs and courtesies, and intelligence.

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

AF-1606-0110
PRIMARY PILOT TRAINING (PA-18/T-6)
Course Number: 112101-1.
Location: Air Training Command, Columbus AFB, MS; Air Training Command, Bainbridge AFB, GA; Air Training Command, Bartow AFB, FL; Air Training Command, Graham AFB, FL; Air Training Command, Hondo AFB, TX; Air Training Command, Malden AFB, MO; Air Training Command, Marana AFB, AZ; Air Training Command, Moore AFB, TX; Air Training Command, Spence AFB, GA; Air Training Command, Stallings AFB, NC.
Length: 24 weeks (539 hours).
Exhibit Dates: 9/54-12/68.
Objectives: To train aviation cadets in visual and instrument flight.
Instruction: Lectures and practical exercises in visual and instrument flight. Topics include aircraft engineering, radio communications, principles of flight of flight instruments, navigation and weather.

Credit Recommendation: In the lower-division baccalaureate category, 3 semester hours in radar and electronic warfare equipment. In the upper-division baccalaureate category, 3 semester hours in primary meteorology and navigation, and credit in advanced military science which regularly offer such a course (12/68).

AF-1606-0111
HELICOPTER PILOT TRANSITION TRAINING

Course Number: F-VSF-B/C/G
Location: Air Training Command, Sheppard AFB, TX.
Length: 6 weeks (70-82 hours).
Exhibit Dates: 3/69-12/73.
Objectives: To train fixed-wing pilots to fly and operate rotary-wing aircraft (helicopters).
Instruction: Lectures and practical exercises in the operation of helicopters, flying techniques, and familiarization with helicopter instruments. Topics include helicopter aerodynamics, airborne intercept, radar, navigation, formation, and other operational concerns.

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

AF-1606-0112
HELICOPTER PILOT CONVERSION TRAINING

Course Number: H-1/F/H-43/H-1/F/CH-3
Location: Air Training Command, Sheppard AFB, TX.
Length: 12 weeks (159-171 hours).
Exhibit Dates: 3/69-12/73.
Objectives: To train fixed-wing pilots to fly and operate rotary-wing aircraft (helicopters).
Instruction: Lectures and practical exercises in the operation of helicopters, flying techniques, and familiarization with helicopter instruments. Topics include helicopter aerodynamics, airborne intercept, radar, navigation, formation, and other operational concerns.

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

AF-1606-0113
HELICOPTER PILOT CONVERSION TRAINING

Course Number: F-VSF-F.
Location: Air Training Command, Sheppard AFB, TX.
Length: 10-12 weeks (122-142 hours).
Exhibit Dates: 3/69-12/73.
Objectives: To train pilots in the operation of specific helicopter aircraft.
Instruction: Lectures and practical exercises in the operation of specific helicopter aircraft. Pilots are geared to instructing fixed-wing pilots and familiarizing them with instruments and operation of helicopter aircraft. Topics include policy and procedures, helicopter aerodynamics, engineering, and navigation.

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

AF-1606-0114
ELECTRONIC WARFARE TRAINING

Course Number: 1115004
Location: Air Training Command, Nellis AFB, NV.
Length: 6 weeks (92 hours).
Exhibit Dates: 6/73.
Objectives: To train pilots to operate radar and electronic warfare equipment on F-4 aircraft.
Instruction: Lectures and practical exercises in electronic warfare equipment and devices. Topics include radar analysis, equipment, radar order-of-battle analysis, audio analysis, and trainer missions.

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

AF-1606-0115
NAVIGATOR BOMBARDIER UPGRADE TRAINING (AN/ASO-38)

Course Number: I11525B, 115215A.
Location: Air Training Command, Mather AFB, CA.
Length: 6-9 weeks (157-185 hours).
Exhibit Dates: 9/55-12/68.
Objectives: To train navigator-bombardiers for duty on aircraft equipped with the AN/ASO-38 weapons control system.
Instruction: Lectures and practical exercises in the operation of navigator-bombardiers on aircraft equipped with the AN/ASO-38 weapons control system, including specific computers, radar and ancillary equipment, operating procedures and mission analysis, and advanced operating procedures and ADM/AGM, and specific weapons control system theory.

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

AF-1606-0116
ADVANCED FIGHTER TRAINING (T-33/F-86)

Course Number: 111100A.
Location: Air Training Command, Williams AFB, AZ.
Length: 12 weeks (311 hours).
Exhibit Dates: 6/58-12/68.
Objectives: To provide pilots with advanced fighter training.
COURSE EXHIBITS

AF-1606-0117
F-111A WEAPONS SYSTEM TRAINING (Mark 11)
(F-111A WEAPONS SYSTEM TRAINING (NAV/PILOT))
(F-111A WEAPONS SYSTEM TRAINING)
Course Number: F-V5H-A, F-V5H-A:0, 111053.
Location: Air Training Command, Nellis AFB, NV; Air Training Command, Cannon AFB, NM.
Length: 9 weeks (243–256 hours).
Objectives: To train rated pilots in the principles of radar, its employment, and in the use of F-111A avionic systems.
Instruction: Lectures and practical exercises on the principles of radar, its employment, and in the operation of F-111A avionic systems, including F-111A navigation systems, bombing and weapon systems, radar air combat techniques and ECM, avionics systems operation, and simulator mission planning and simulator critique.
Credit Recommendation: No credit because of the specialized nature of the course (12/68).

AF-1606-0118
B-58 BOMBER DEFENSE OFFICER
Course Number: 157158.
Location: Air Training Command, Keesler AFB, MS.
Length: 6 weeks (180 hours).
Exhibit Dates: 12/59-12/68.
Objectives: To train electronic warfare officers in the duties of bomber defense officers.
Instruction: Lectures and practical exercises in bombing and warning operations in specific aircraft. Topics include defense systems, radar warning receivers, radar confusion and trackbreaker subsystems, and operational procedures and tactics.
Credit Recommendation: No credit because of the military nature of the course (12/68).

AF-1606-0119
INSTRUMENT PILOT TRAINING (C-47)
Course Number: F-V5D-B, F-V5D-B:0, 104502P.
Location: Air Training Command, Keesler AFB, MS; Air Training Command, Randolph AFB, TX; Air Training Command, Moody AFB, GA.
Length: 6 weeks (127-156 hours).
Objectives: To train multiengine aircraft pilots to become instrument pilots in specific aircraft.
Instruction: Lectures and practical exercises in instrument pilot duties. Topics include flight line policies, instruments and instrument procedure, synthetic instrument trainer, weather, air musses and fronts, restriction of visibility, icing, turbulence, thunderstorms, upper air charts and phenomena, weather station services and facilities, and the use of weather data for flight planning.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in instrument flight training (6/74).

AF-1606-0120
USAF COMBAT FLYING SCHOOL, LIGHT BOMB JET (B-57)—PILOT
Course Number: 122100B.
Location: Air Training Command, Randolph AFB, TX.
Length: 10 weeks (365 hours).
Exhibit Dates: 4/55–12/68.
Objectives: To train pilots to operate specific weapons systems.
Instruction: Lectures and practical exercises in the operation of specific weapons systems. Topics include radar bombing systems operation, engine operations, gunnery equipment, navigation systems, aviation physiology, emergency procedures, basic survival, and high-altitude weather.
Credit Recommendation: No credit because of the specialized nature of the course (12/68).

AF-1606-0121
USA F COMBAT FLYING SCHOOL, LIGHT BOMB JET (B-57)—OBSERVER
Course Number: 122100B.
Location: Air Training Command, Randolph AFB, TX.
Length: 8 weeks (286 hours).
Exhibit Dates: 4/55–12/68.
Objectives: To train enlisted personnel to operate specific weapons systems.
Instruction: Lectures and practical exercises in the operation of specific weapons systems. Topics include radar bombing systems operation, engine operations, gunnery equipment, navigation systems, aviation physiology, emergency procedures, basic survival, and high-altitude weather.
Credit Recommendation: No credit because of the specialized nature of the course (12/68).

AF-1606-0122
USA F ADVANCED FLYING SCHOOL, FIGHTER F-100A (PHASE II)
Course Number: 112101A, 112102A.
Location: Air Training Command, Nellis AFB, NV.
Length: 6 weeks (145 hours).
Exhibit Dates: 12/56-12/68.
Objectives: To train personnel in advanced fighter flying.
Instruction: Lectures and practical exercises in advanced fighter flying, including navigation, formation, instruments, air combat maneuver, air-to-air gunnery, ground support, academic and flight line ground training, and fighter operation.
Credit Recommendation: No credit because of the specialized nature of the course (12/68).

AF-1606-0123
INSTRUCTOR INTERCEPTOR, JET (F-86D/L)
Course Number: 1-12102C.
Location: Air Training Command, Perrin AFB, TX.
Length: 20 weeks (624 hours).
Exhibit Dates: 6/57–12/68.
Objectives: To train jet pilots as instructors in F-86D/L jet interceptors.
Instruction: Lectures and practical exercises in the duties of jet interceptor instructors, including flight instruments, navigation, weather flight, survival, briefing, preflight, instruments, interceptor target, synthetic trainer C-11, and teaching fundamentals.
Credit Recommendation: No credit because of the military nature of the course (12/68).

AF-1606-0124
BASIC PILOT TRAINING (BASIC PILOT TRAINING, SINGLE-ENGINE JET)
Course Number: 111102, 112102.
Location: Air Training Command, Greenville AFB, MS; Air Training Command, Laredo AFB, TX; Air Training Command, Craig AFB, AL; Air Training Command, Reese AFB, TX; Air Training Command, Vance AFB, OK; Air Training Command, Webb AFB, TX; Air Training Command, Bryan AFB, TX.
Length: 22 weeks (284–322 hours).
Exhibit Dates: 10/54-12/68.
Objectives: To train officers to pilot single-engine jet aircraft.
Instruction: Lectures and practical exercises in single-engine jet operation, including flight training, navigation, instrument flight, and meteorology.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic pilot training (7/74).

AF-1606-0125
BASIC PILOT TRAINING, MULTI-ENGINE
Course Number: 112100, 112100-1.
Location: Air Training Command, Goodfellow AFB, TX; Air Training Command, Reese AFB, TX; Air Training Command, Vance AFB, OK.
Length: 22 weeks (245–260 hours).
Exhibit Dates: 7/54–12/68.
Objectives: To train officers as pilots for multiengine aircraft.
Instruction: Lectures and practical exercises in ground and flight training for multiengine aircraft, including flight formations, navigation, instrumentation, flight operations, weather, celestial navigation, nuclear weapons delivery, survival training, aircraft recognition, communications equipment, emergency procedures, and TB-25 aircraft fuel, hydraulic, electrical, oil, engine, and starter systems.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in commercial flight certification (7/74).

AF-1606-0126
AFS FIGHTER, JET (F-100)
(FIGHTER COURSE, UNIT CONVERSION, F-100)
Course Number: 112050A, 112105A.
Location: Air Training Command, Nellis AFB, NV.
Length: 6 weeks (147 hours).
Exhibit Dates: 1/56-12/68.
Objectives: To train pilots in F-100 aircraft weapons systems.
Instruction: Lectures and practical exercises in F-100 aircraft weapons systems, including flight check-out, transition, and acrobatics procedures; various flight formations; aircraft instruments and navigation; aerial gunnery use at various altitudes using applied tactics; emergency procedures; cockpit familiarization; flight characteristics; fuel, flight control, engine, hydraulic, electrical, heating, and ventilation systems of the F-100 aircraft; communications equipment; and preflight inspections and flight planning.

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

AF-1606-0127
MEDICAL OFFICER FLIGHT FAMILIARIZATION TRAINING (T-37)
(MEDICAL OFFICER FLIGHT FAMILIARIZATION TRAINING (T-33))
Course Number: S-V5E-A; 51-935000.
Location: Air Training Command, Perrin AFB, TX; Air Training Command, Randolph AFB, TX.
Length: 5-8 weeks (106-125 hours).
Exhibit Dates: 1/3-1/75.

Objectives: To train aerospace medicine residents in flight familiarization and the problems of flight personnel.

Instruction: Lectures and practical exercises in flight familiarization and the problems of flight personnel, including aviation physiology, flight planning, instrument and radio aids, flight aerodynamics, flight training and navigation, weather, and aircraft engineering.

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

AF-1606-0128
ADVANCED HELICOPTER TRAINING (PILOT ADVANCED FLYING (HH-43) ARS)
Course Number: 1025C-1.
Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 10-12 weeks (24 hours).
Exhibit Dates: 1/3-1/79.

Objectives: To provide HH-43 helicopter pilots with transition and tactical flight training.

Instruction: Lectures and practical exercises on HH-43 helicopter engineering and operations, including familiarization, utility systems, flight controls, power plant, transmission and rotors, malfunction analysis and maintenance, search and rescue procedures, remote area operations, and engineering review.

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

AF-1606-0129
H-43 FIREFIGHTING
Course Number: 571YC-1.
Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 3 weeks (163 hours).

Objectives: To provide H-43 helicopter pilots with transition flight training and firefighting.

Instruction: Lectures and practical exercises in transition flight training for H-43 helicopter pilots, with emphasis on firefighting, introduction to H-43 rescue and fire suppression; H-43 rescue configuration; emergency procedures, equipment, and egress; cargo sling/dummy fire kit operation and hoist procedures; airborne fire suppression kit; care and operation of fire-fighting equipment; fire suppression procedures; rescue and evacuation; and crew duties for ground support.

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

AF-1606-0130
PARAMEDIC ADVANCED FLYING TRAINING—LBR
Course Number: 923X0-15.
Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 5 weeks (63 hours).

Objectives: To provide H-43 helicopter pilots with transition flight training.

Instruction: Lectures and practical exercises in transition flight training for H-43 helicopter pilots, with emphasis on rescue duty, including rescue operations and training; scanning and pyrotechnics; aircrew survival training; NORAD safe-passage procedures; rescue configuration; emergency procedures, equipment and egress; and rescue hoist procedures.

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

AF-1606-0131
ADVANCED HELICOPTER PILOT TRAINING (H-1/H-3/H-43/H-53)
Course Number: 1025D7; 1025DQA; 1025D8A; 1025C-F.
Location: Aerospace Rescue and Recovery Service, Hill AFB, NM.
Length: 12 weeks (45-156 hours).
Exhibit Dates: 7/63-7/68.

Objectives: To train HH-43 helicopter pilots in advanced tactical maneuvers.


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

AF-1606-0132
F-111A WEAPONS SYSTEM TRAINING
( AIRCRAFT COMMANDER )
Course Number: 51-F-V5H-B.
Location: Air Training Command, Nellis AFB, NV.
Length: 3 weeks (91 hours).
Exhibit Dates: 7/68-7/68.

Objectives: To train aircraft commanders in the operation and use of the F-111A avionics system.

Instruction: Lectures and practical exercises in the operation and use of the F-111A avionics system, including weapons system capability, inertial alignment procedures, attack radar, models of operation, simulator procedures, radar types, terrain-following operation, countermeasures dispensers, conventional munitions control system, avionics system operation, and integrated mission procedures.

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

AF-1606-0133
NAVIGATOR-BOMBER D B U P G R A D E TRAINING
(UPGRADING B-58 AIRCRAFT)
(CAMBIRDIER B-58 AIRCRAFT (AN/ASQ-42 WEAPONS CONTROL SYSTEM))
Course Number: 152158C; 152158B.
Location: Air Training Command, Mather AFB, CA.
Length: 5 weeks (127-166 hours).
Exhibit Dates: 8/59-12/68.

Objectives: To train navigator-bomber pilots to navigate and bomb with the AN/ASQ-42 weapons control system.

Instruction: Lectures and practical exercises in navigation and bombing with the AN/ASQ-42 weapons control system, including integrated weapon system orientation, Doppler radar set, heading and stabilization computers, search radar set, and sighting and bombing computers.

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

AF-1606-0134
NAVIGATOR-BOMBER D B U P G R A D E TRAINING (ASQ-48)
Course Number: 152152D.
Location: Air Training Command, Mather AFB, CA.
Length: 7-8 weeks (151-192 hours).
Exhibit Dates: 7/63-12/68.

Objectives: To train navigator-bomber pilots to operate the AN/ASQ-48 weapons control system.

Instruction: Lectures and practical exercises in operation of the AN/ASQ-48 weapons control system, including specific navigation and bombing computers, directional reference system and operational procedures, radar system, and operational procedures.

Credit Recommendation: In the lower division baccalaureate/associate degree category, 3 semester hours in navigation (7/74).

AF-1606-0135
BASIC OBSERVER B-36, B-47 AND B-52
Course Number: 1521006A-1.
Location: Air Training Command, Mather AFB, CA; Air Training Command, James Connally AFB, TX.
Length: 24 weeks (716 hours).
Exhibit Dates: 5/54-12/68.

Objectives: To train graduates of primary observer courses to perform as navigator-bomber pilots (observers) on B-36, B-47, and B-52 aircraft.

Instruction: Lectures and practical exercises in the duties of a navigator-bomber pilot on B-36, B-47, and B-52 aircraft. Course includes navigation training (including celestial), radar bombing and navigation, officer training, and atomic, biological, and chemical warfare.
AF-1606-0136
UPGRADING B-56 AIRCRAFT
Course Number: 152110C-1.
Location: Air Training Command, Mather AFB, CA.
Length: 6 weeks (162 hours).
Exhibit Dates: 11/55-12/68.
Objectives: To train navigator-bombardiers to operate the K-5 and APS-27 radars.
Instructor: Lectures and practical exercises in the performance of navigation and radar reconnaissance duties using K-5 APS-27 radars. Course includes use of radar equipment, radar operations, reconnaissance procedures, and radar bombing.
Credit Recommendation: No credit because of the military nature of the course (12/68).

AF-1606-0137
FLIGHT SCREENING PROGRAM, T-41
Course Number: 5-V8A-A.
Location: School of Military Sciences, Lackland AFB, TX.
Length: 3 weeks (51-52 hours).
Exhibit Dates: 5/73-Present.
Objectives: To provide commissioned officers with basic flight instruction.
Instructor: Lectures and practical exercises in basic flight maneuvers in preparation for undergraduate pilot training. Course includes basic flight training, air policies and procedures, and flying safety.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in flight training for solo flight. (7/74).

AF-1606-0138
PILOT ADVANCED FLYING (TH-1) BASIC
Course Number: 1025D-0.
Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 4 weeks (48 hours).
Exhibit Dates: 4/72-Present.
Objectives: To train pilots to pilot H-1 helicopters.
Instructor: Lectures and practical exercises in the operation of H-1 helicopters. Course includes all aspects of flight procedure, including flight checks, safety, and general flight training.
Credit Recommendation: No credit because of the military nature of the course (7/74).

AF-1606-0139
PILOT ADVANCED FLYING (TH-1) SAC
Course Number: 1025D-1.
Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 4 weeks (100 hours).
Exhibit Dates: 4/72-Present.
Objectives: To train pilots to pilot H-1 helicopters.
Instructor: Lectures and practical exercises in the operation of H-1 helicopters. Course includes all aspects of flight procedure, including flight checks, safety, and general flight training.
Credit Recommendation: No credit because of the military nature of the course (7/74).

AF-1606-0140
PILOT ADVANCED FLYING (UB-1N) BASIC
Course Number: 1025D-3.
Location: Aerospace Rescue and Recovery Service, Hill AFB, UT.
Length: 4 weeks (41 hours).
Exhibit Dates: 4/72-Present.
Objectives: To train pilots to pilot H-1 helicopters.
Instructor: Lectures and practical exercises in the operation of H-1 helicopters. Course includes all aspects of flight procedure, including flight checks, safety, and general flight training.
Credit Recommendation: No credit because of the military nature of the course (7/74).

AF-1606-0141
BASIC PILOT INSTRUCTOR, MULTI-ENGINE CONVENTIONAL
Course Number: F112101P-1.
Location: Air Training Command, Goodfellow AFB, TX; Air Training Command, Reese AFB, TX; Air Training Command, Vance AFB, OK.
Length: 6 weeks (163 hours).
Exhibit Dates: 4/55-12/68.
Objectives: To train rated pilots to teach pilot trainees to fly the TB-25 multiengine aircraft.
Instructor: Lectures and practical exercises in flight instruction, including teaching techniques concerned with content, formation, instruments, and navigation, engineering for instructor pilots; principles of learning, training aids and curricula materials; lesson planning and practice briefing; navigational flight planning; specific instrument trainer; and techniques of flight instrument.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in instructional methods (7/74); in the upper-division baccalaureate category, 3 semester hours in instruction, flight training, and general flight training.

AF-1606-0142
FIGHTER GUNNERY INSTRUCTOR
Course Number: G11210E-A.
Location: Fighter Weapons School, Nellis AFB, NV.
Length: 10 weeks (379 hours).
Exhibit Dates: 7/54-12/68.
Objectives: To train pilots to be gunnery instructors.
Instructor: Lectures and practical exercises in the functions of gunnery instructors, including flight training, harmonization, aerial combat, film assessing sights, ground attack, training equipment, fighter weapons, techniques of instruction, flying safety, and field trips.
Credit Recommendation: No credit because of the military nature of the course (12/68).

AF-1606-0143
ARMY PRIMARY PILOT TRAINING
Course Number: 105400-1.
Location: Air Training Command, Edward Gary AFB, TX.
Length: 17 weeks (515-556 hours).
Exhibit Dates: 10/53-12/68.
Objectives: To provide Army officers with training in the basic principles of visual, instrument, and night flying.
Instruction: Lectures and practical exercises in advanced tactics training, including flight training, aircraft engineering, weather, principles of flight, navigation, radio communications, flight instruments, and visual code.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in private pilot rating, 2 in navigation, 2 in meteorology (7/74); in the upper-division baccalaureate category, 3 semester hours in primary meteorology and navigation, and credit in advanced military at institutions which normally offer such credit (12/68).

AF-1606-0144
PILOT INSTRUCTOR TRAINING, BASIC MULTI-ENGINE (T-28)
Course Number: F11208BME-1.
Location: Air Training Command, Craig AFB, AL.
Length: 7 weeks (235 hours).
Exhibit Dates: 4/54-12/68.
Objectives: To train rated pilots to teach basic pilot trainees to fly the T-28 multiengine aircraft.
Instruction: Lectures and practical exercises in basic multi-engine aircraft principles and techniques, including flight training and techniques of flight instruction, grading and evaluation procedures, engineering, analysis of instrument, maneuvers, navigation, analysis of contact maneuvers, weather principles, psychology of instruction and developmental approach, flight instrumentation, flight planning, radio aids, and aerodynamics and flight theory.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in instructional methods (7/74); in the upper-division baccalaureate category, credit in instructional methods on the basis of institutional evaluation (12/68).

AF-1606-0145
1. UNDERGRADUATE NAVIGATOR TRAINING
   2. UNDERGRADUATE NAVIGATOR TRAINING
   3. UNDERGRADUATE NAVIGATOR TRAINING
   4. UNDERGRADUATE NAVIGATOR TRAINING
   5. UNDERGRADUATE NAVIGATOR TRAINING
   6. UNDERGRADUATE NAVIGATOR TRAINING
   7. PRIMARY-BASIC NAVIGATOR TRAINING
   8. PRIMARY-BASIC NAVIGATOR TRAINING

Course Numbers:
   3. Version 5: 153132; 153132; 153132; 153132.

Location: Version 1: Air Training Command, Mather AFB, CA; Version 2: Air Training Command, Mather AFB, CA; Version 3: Air Training Command, Connelly


Objectives: To train personnel as navigators.

Instruction: All Versions: Lectures and practical exercises in navigation, including dead-reckoning, celestial, night celestial, grid, and radar navigation; navigation physiology, weather; equipment; and flight training. Version 1: Topics include flight training, mapping and radar, life support systems, aircraft and navigational equipment, aural code, aircraft systems, flight publications, navigation procedures, over-water navigation, advanced operations, and low-level navigation. Version 2: Topics include basic navigation procedures, aural and visual code, radar navigation, aircraft electric systems, special techniques, over-water navigation, ECCM familiarization, and flight publications. Version 3: Topics include survival, basic navigation procedures, celestial, and electronic warfare orientation. Version 4: Topics include survival, basic navigation procedures, electricity and magnetism, aural and visual code, map reading and radio, alternating current, vacuum tubes, radio & Loran, navigation, pressure differential flying, special techniques and aids, over-water navigation, and electronic warfare orientation. Version 5: Topics include code, nuclear weapons delivery; aircraft recognition; maps, charts, and DR equipment; dead-reckoning aids; air plot and DR techniques; Loran, pressure differential, operational techniques; electricity and magnetism; alternating current; vacuum tubes; radio and Loran, and radar systems. Version 6: Topics include code, nuclear weapons delivery; aircraft recognition; maps, charts, and DR equipment; dead-reckoning aids; air plot and DR techniques; Loran, pressure differential, operational techniques; electricity and magnetism; alternating current; vacuum tubes; radio and Loran, and radar systems. Version 7: Topics include aural and visual code; maps, charts, and dead-reckoning equipment; dead-reckoning aids, DR techniques and air plot; Loran navigation, pressure differential flying, operational techniques; electrical equipment; nuclear weapons, delivery training; and survival. Version 8: Topics include aural and visual code; maps, charts, and dead-reckoning equipment; dead-reckoning aids, DR techniques and air plot; Loran navigation, pressure differential flying, operational techniques; nuclear weapons, delivery training; and survival.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in navigation (7/74); In the lower-division baccalaureate/associate degree category, 6 semester hours in navigation (7/74); in the upper-division baccalaureate category, 6 semester hours in navigation (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (12/68); In the upper-division baccalaureate category, 6 semester hours in navigation (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (12/68); in the upper-division baccalaureate category, 6 semester hours in navigation, and credit in advanced military at institutions which normally offer such credit (12/68). Version 4: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (12/68); in the upper-division baccalaureate category, 6 semester hours in navigation, and credit in advanced military at institutions which normally offer such credit (12/68). Version 5: In the lower-division baccalaureate/associate degree category, 6 semester hours in navigation (7/74); in the upper-division baccalaureate category, 6 semester hours in navigation, and credit in advanced military at institutions which normally offer such credit (12/68). Version 6: In the lower-division baccalaureate/associate degree category, 6 semester hours in navigation (7/74); in the upper-division baccalaureate category, 6 semester hours in navigation, and credit in advanced military at institutions which normally offer such credit (12/68). Version 7: In the lower-division baccalaureate/associate degree category, 6 semester hours in navigation (7/74); in the upper-division baccalaureate category, 6 semester hours in navigation, and credit in advanced military at institutions which normally offer such credit (12/68). Version 8: In the lower-division baccalaureate/associate degree category, 6 semester hours in navigation (7/74); in the upper-division baccalaureate category, 6 semester hours in navigation, and credit in advanced military at institutions which normally offer such credit (12/68).

AF-1606-0150


Objectives: To provide instruction in the responsibilities of a flying simulator, academic, and military instructor in a navigator training program.

Instruction: Formal classroom presentation and practical application to include navigation; psychology of learning; instruction systems development; communication; methods and techniques of instruction; evaluation; class design in techniques and methods; practical teaching; and flying training. Course length and content vary somewhat for navigator, bombardier, and undergraduate navigator and electronic warfare officer.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in instructional methodology (6/75).

AF-1606-0151

USAF ADVANCED FIGHTER TRAINING (F-86F) Course Number: 111102A. Location: Air Training Command, Williams AFB, AZ. Length: 18 weeks (483 hours). Exhibit Dates: 6/58-12/58.

Objectives: To qualify pilots as crew members in the combat fundamentals of operating F-86F aircraft.

Instruction: Lectures and flying training to include instrument training, ground support and aerial combat training; formation, and navigation.

Credit Recommendation: No credit because of the limited specialized nature of the course (10/75).

AF-1701-0001

AIR CONDITIONING ENGINEERING Course Number: Not available. Location: Civil Engineering School, Wright-Patterson AFB, OH. Length: 6 weeks (252 hours). Exhibit Dates: 4/73-Present.

Objectives: To train engineers to apply current technology to building environmental control systems.

Instruction: Lectures and practical exercises in air conditioning engineering at the advanced level. Course includes management concerns, psychrometrics, load estimating, refrigeration principles, equipment selection, load analysis, design analysis, systems, piping design, duct design, electrical controls, and design problems.

Credit Recommendation: Credit in the upper-division baccalaureate category, 6 semester hours in air conditioning engineering (6/74).
AF-1701-0002
MA-1 AND MA-3 AIR CONDITIONERS, FIELD AND ORGANIZATIONAL (F & O) MAINTENANCE
Course Number: ATS42153-9
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 1/58-12/68.
Objectives: To train enlisted personnel to troubleshoot and repair the mechanical portions of vapor-compressing refrigeration systems. Course includes fundamentals of the refrigeration cycle, refrigeration system components, and troubleshooting of the mechanical system.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1701-0003
GROUND SUPPORT AIR CONDITIONER (B-58)
Course Number: ATS42153-39
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 1/58-12/68.
Objectives: To train enlisted personnel to troubleshoot and repair the mechanical portions of a vapor-compressing refrigeration system.
Instruction: Lectures and practical exercises in the repair of vapor-compressing refrigeration systems. Course includes fundamentals of the refrigeration cycle, refrigeration system components, and troubleshooting of the mechanical system.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1701-0004
HEATING SYSTEMS SPECIALIST (HEATING SPECIALIST)
Course Number: 3ABR54730; AB56530.
Length: 10-11 weeks (288-342 hours).
Exhibit Dates: 1/56-12/73.
Objectives: To train airmen to operate, install, maintain, and repair heating systems.
Instruction: Lectures and practical exercises in the operation, installation, repair, and maintenance of heating systems, including electrical fundamentals, heating control systems, fuel-burning equipment, warm and hot water heating systems, unit heaters, central boiler plants, automatic and hand-fired furnaces; and boiler water testing and treatment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in air conditioning and refrigeration laboratory (7/74).

AF-1701-0005
CENTRAL HEATING PLANT SPECIALIST
Course Number: 3AZS4750A; 5AZN4750A-1; AZN4750A-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 5 weeks (150-198 hours).
Exhibit Dates: 3/67-12/73.
Objectives: To train enlisted personnel to operate and maintain heating plants.
Instruction: Lectures and practical exercises in combustion principles; characteristics of fuels; fundamentals of electricity; operating principles and maintenance of gas, oil, and coal burners; establishing fuel requirements; operating principles and maintenance of steam, hot-water, and high-temperature water heating systems; boiler water testing and treatment; corrosion control; personnel certification requirements; and maintenance of operating logs and records.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours as a technical elective in heating plant maintenance (7/74).

AF-1701-0006
KC-135 MECHANICAL ACCESSORIES AND EQUIPMENT REPAIRMAN
Course Number: ATS42251-13; SS42251-13.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 5/58-12/68.
Objectives: To train enlisted personnel to maintain KC-135 aircraft and accessories.
Instruction: Lectures and practical exercises in the maintenance of KC-135 aircraft and accessories. Course includes cabin pressurization, fire extinguishers, air conditioning and refrigeration, and defrost systems.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in air conditioning and refrigeration laboratory (7/74).

AF-1701-0007
AIRCRAFT ENVIRONMENTAL SYSTEMS REPAIRMAN (MECHANICAL ACCESSORIES AND EQUIPMENT REPAIRMAN)
Course Number: 3ABR42231; AB42231.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 15-17 weeks (450-480 hours).
Exhibit Dates: 10/54-12/73.
Objectives: To train selected enlisted personnel to maintain and repair air-conditioning and anti-icing systems.
Instruction: Lectures and practical exercises in the maintenance and repair of air-conditioning and anti-icing systems. Course includes fundamentals; electrical principles; basic air systems; air conditioning and pneumatics; miscellaneous equipment; and oxygen and fire-extinguishing equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in air conditioning (8/74).

AF-1703-0001
AF332R-2 REFRIGERATION AND ORGANIZATIONAL (F & O) MAINTENANCE
Course Number: ATS47152-47.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/61-12/68.
Objectives: To train personnel to maintain a specific refueler.
Instruction: Lectures and practical exercises on the cleaning, adjustment, and maintenance of simple hydraulic components, including the operation and operation of the AF/332R-2 refueler and applicable safety precautions; repair of pumping system components; repair of pressure control system components; valve selector, eductor control valve, main line control valve, hi and lo flow regulators; piping system, fuel filters, and automatic drain valves; electrical system; automatic transmission; and operational test and troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automatic transmissions or hydraulics (6/74).

AF-1703-0002
VEHICLE BODY REPAIR
Course Number: 3ABR47331.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 10-11 weeks (300-330 hours).
Exhibit Dates: 2/70-12/73.
Objectives: To train enlisted personnel to repair vehicle bodies.
Instruction: Lectures and practical exercises in vehicle body repair, including operation safety, setup, storage, handling; use of oxyacetylene welding equipment and materials; use of body and fender tools and equipment; metal bumping, dinging, and shrinking; use of lead and plastic fillers; preparation of metal for painting; application of primers and fillers; trim and hardware replacement; glass cutting and replacement; body parts alignment and adjustment; and corrosion control and spray painting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in automotive body repair, vehicle body repair, or metal body repair (5/74).

AF-1703-0003
O-11A, O-11B AND O-6 CRASH FIRE TRUCK MAINTENANCE
Course Number: 3AZR47251A; AZR47152-2.
Location: School-of Applied Aerospace Sciences, Chanute AFB, IL. 3345th Technical School, Chanute AFB, IL.
Length: 5-6 weeks (150 hours).
Exhibit Dates: 11/65-12/73.
Objectives: To train enlisted personnel to maintain O-11A, O-11B, and O-6 crash fire trucks.
Instruction: Lectures and practical exercises in crash fire trucks operation and maintenance; including engines, power trains, steering systems, dispensing systems, heating systems, electrical systems, hydraulics systems, components, and subassemblies.
AF-1703-0004

SPECIAL VEHICLE REPAIRMAN (MATERIALS HANDLING VEHICLE)
Course Number: 3ABR7231-C
Location: School of Applied Aerospace Sciences, Chanute AFB, IL
Length: 20 weeks (512 hours)
Exhibit Dates: 1/73-12/73
Objectives: To train enlisted personnel to repair special purpose vehicles, including forklifts, conveyors, and other materials handling equipment.

AF-1703-0005

SPECIAL VEHICLE REPAIRMAN (TOWING AND SERVICING VEHICLE)
Course Number: 3ABR7231-1
Location: School of Applied Aerospace Sciences, Chanute AFB, IL
Length: Version 1: 14 weeks (512 hours); Version 2: 20 weeks (398 hours)
Exhibit Dates: Version 1: 7/73-12/73; Version 2: 2/73-6/73
Objectives: To train airmen to perform as special vehicle repairmen (towing and servicing vehicles).

AF-1703-0006

GENERAL PURPOSE VEHICLE REPAIRMAN
Course Number: 3ABR7330
Location: School of Applied Aerospace Sciences, Chanute AFB, IL
Length: 12 weeks (270-300 hours)
Exhibit Dates: 1/73-1/73
Objectives: To train enlisted personnel to repair passenger cars and light and medium-duty trucks.

AF-1703-0007

GENERAL PURPOSE VEHICLE REPAIRMAN (ACCELERATED)
Course Number: 3ABR7330
Location: School of Applied Aerospace Sciences, Chanute AFB, IL
Length: 9-10 weeks (270-300 hours)
Exhibit Dates: 1/73-1/73
Objectives: To train enlisted personnel to repair passenger cars and light and medium-duty trucks.

AF-1703-0008

AUTOMOTIVE AC ELECTRICAL SYSTEMS
Course Number: 3ABR7350-2
Location: School of Applied Aerospace Sciences, Chanute AFB, IL
Length: 5 weeks (78-94 hours)
Exhibit Dates: 8/72-12/73
Objectives: To train maintenance personnel to repair automotive electrical systems.

AF-1703-0009

SPECIAL VEHICLE REPAIRMAN (REFUELING VEHICLE)
Course Number: 3ABR4721B
Location: School of Applied Aerospace Sciences, Chanute AFB, IL
Length: 12 weeks (360-432 hours)
Exhibit Dates: 7/73-12/73
Objectives: To train airmen to perform as special vehicle repairmen (refueling vehicles).

AF-1703-0010

VEHICLE MAINTENANCE TECHNICIAN
Course Number: AA47170
Location: 345th Technical School, Warner AFB, WY
Length: 19 weeks (570 hours)
Exhibit Dates: 6/55-12/68
Objectives: To train selected senior-level airmen to maintain and inspect representative types of general-purpose, special-purpose, and construction equipment.

AF-1703-0011

VEHICLE BODY REPAIR
Course Number: 3ABR7351; 3ABR7153
Location: 3345th Technical School, Chanute AFB, IL
Length: 8 weeks (240 hours)
Exhibit Dates: 10/67-12/73
Objectives: To train selected enlisted personnel to repair vehicle bodies, including body and fender repair, primer and paint, glass cutting and replacing, and trim and alignment of body parts.
1-84 COURSE EXHIBITS

AF-1703-0012

GENERAL PURPOSE AUTOMATIC TRANSMISSION MAINTENANCE

Course Number: 3A2R47350-3.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 4 weeks (160 hours).

Objectives: To train enlisted personnel in automatic transmissions, including basic principles, planetary gear systems, transmission test instruments, troubleshooting, repair, and testing of specific transmissions; and general maintenance procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive technology (7/74); in the upper-division baccalaureate category, 2 semester hours in automotive technology (7/74).

AF-1703-0013

FRONT END ALIGNMENT, OPERATION AND MAINTENANCE (WHEEL ALIGNMENT EQUIPMENT, OPERATION AND MAINTENANCE)

Course Number: ATS47151-4.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).

Objectives: To train enlisted personnel in front end alignment, operation, and maintenance.

Instruction: Lectures and practical exercises in front end alignment, operation, and maintenance, including suspension design, tire and wheel balancing, alignment methods, equipment operation and repair, steering gearboxes and adjustments, visual inspection and preparations, prealignment inspection, and troubleshooting of steering malfunctions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in automotive technology (7/74).

AF-1703-0014

AUTOMOTIVE MECHANIC

Course Number: Version 1: 3ABR47131.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.

Objectives: To train enlisted personnel to service and repair gas and diesel vehicles.

Instruction: Lectures and practical exercises in the servicing and repair of gas and diesel vehicles. Course includes gasoline and diesel engine tune-up and repair, electrical systems repair, emission control system inspection and adjustment, transmission service and adjustment, and steering and brakes servicing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive systems (7/74); in the upper-division baccalaureate category, credit in automotive systems on the basis of institutional evaluation (7/74).

AF-1703-0015

SENIOR MAINTENANCE MECHANIC

Course Number: 53-43151-1100C.
Location: 3499th Mobile Training Wing, Chanute AFB, IL.
Length: 3 weeks (97 hours).

Objectives: To train enlisted personnel to use modern automotive test equipment to diagnose and repair defects in automotive vehicles.

Instruction: Lectures and practical exercises in the use of diagnostic automotive equipment. Course includes chassis and front-end alignment, automatic electrical systems, fuel and ignition systems, and use of diagnostic equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in engine diagnosis, 2 in suspensions, 3 in automotive electronics (7/74); in the upper-division baccalaureate category, 3 semester hours in engine diagnosis (7/74).

AF-1704-0001

407L AIR TRAFFIC REGULATION CENTER CONTROLLER/TECHNICIAN

Course Number: Version 1: 2ASR72750-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (120 hours).

Objectives: To qualify enlisted personnel having air traffic control experience as officers and technicians in console operation.

Instruction: Practical experience in surveillance, identification, and air traffic regulation.

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

AF-1704-0002

AIR TRAFFIC CONTROL OFFICER

Course Number: Version 1: 3OBR1631.
Location: 3380th Technical School, Keesler AFB, MS.


Objectives: To provide officers and enlisted personnel with training in all phases of air traffic control, qualifying them for FAA control tower certification.

Instruction: Lectures and practical exercises in air traffic control operations, including VFR and IFR radar/monitor traffic control, missions planning, meteorology, navigation, and FAA certification instruction and examination.

Credit Recommendation: Version 1: 1 semester hour in meteorology, 1 in air navigation (3/74); in the upper-division baccalaureate category, 1 semester hour in air traffic control (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 1 semester hour in meteorology, 1 in air navigation (3/74); in the upper-division baccalaureate category, 1 semester hour in air navigation (3/74).

AF-1703-0017

VEHICLE DIAGNOSTIC TEST EQUIPMENT

Course Number: 3A2R47350-1.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL; 3345th Technical School, Chanute AFB, IL.
Length: 6 weeks (180-240 hours).

Exhibit Dates: 11/67-12/73.

Objectives: To train enlisted personnel to use modern automotive test equipment to diagnose and repair defects in automotive vehicles.

Instruction: Lectures and practical exercises in the diagnostic automotive equipment. Course includes general automotive test equipment and diagnostic equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in engine diagnosis, 2 in suspensions, 3 in automotive electronics (7/74); in the upper-division baccalaureate category, 3 semester hours in engine diagnosis (7/74).
AF-1704-0003

AIR TRAFFIC CONTROL OFFICER

PROCEDURES

Course Number: 3OLR1611.2
Location: 3308th Technical School, Keesler ABF, MS.
Length: 6 weeks (192 hours).
Exhibit Dates: 8/68-12/73.

Objectives: To train officers and enlisted personnel in air traffic control procedures, including air traffic operations, terminal instrument procedures, and radar and nonradar air traffic control.

Credit Recommendation: In the lower-division baccalaureate/associate-degree category, 9 semester hours in air traffic control (3/74).

AF-1704-0004

AIR TRAFFIC CONTROL TECHNICIAN

Course Number: AA27270.
Location: Technical School, Keesler ABF, MS.
Length: 11 weeks (330 hours).
Exhibit Dates: 3/54-12/68.

Objectives: To train enlisted personnel to perform the duties of air traffic control technician.

Instruction: Lectures and practical exercises in air traffic control procedures, including navigational, computer operation, meteorology, movement of air traffic, plotting and reporting, radar scope information interpretation, and air traffic control procedures.

Credit Recommendation: In the lower-division baccalaureate/associate-degree category, 1 semester hour in meteorology, 4 in air traffic control (3/74); in the upper-division baccalaureate category, credit in air navigation or meteorology on the basis of institutional evaluation (12/68).

AF-1704-0005

AIR TRAFFIC CONTROL OPERATOR

Location: 3308th Technical School, Keesler ABF, MS.

Objectives: To train airmen as air traffic control operators.

Instruction: All Versions: Lectures and practical exercises in air navigational aids, weather, air traffic regulations, air-route and airport traffic control, flight assistance service, communication procedures, conventional and radar approach control, and air traffic control. Version 1: Performance training in IFR radar/nonradar terminal traffic control.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate-degree category, 2 semester hours in navigation, 2 in weather, 21 in air traffic control (tower) (2/74). Version 2: In the lower-division baccalaureate/associate-degree category, 2 semester hours in navigation, 3 in weather, 18 in air traffic control (tower) (2/74). Version 3: In the lower-division baccalaureate/associate-degree category, 2 semester hours in navigation, 2 in weather, 19 in air traffic control (tower) (2/74). Version 4: In the lower-division baccalaureate/associate-degree category, 1 semester hour in navigation, 2 in weather, 19 in air traffic control (tower) (2/74). Version 4: In the lower-division baccalaureate/associate-degree category, 2 semester hours in navigation, 3 in weather, 18 in air traffic control (tower) (2/74). Version 4: In the lower-division baccalaureate/associate-degree category, 2 semester hours in navigation, 3 in weather, 18 in air traffic control (tower) (2/74).

AF-1704-0006

1. AIRCRAFT LANDING CONTROL OPERATOR

(Assistant or Apprentice Aircraft Landing Control Operator)

2. AIR NAVIGATION CONTROL OPERATOR

TECHNICIAN

Location: 3308th Technical School, Keesler ABF, MS.
Length: 15-18 weeks (450-510 hours).

Objectives: To train airmen as aircraft landing control operators.

Instruction: Lectures and practical exercises in aircraft characteristics, weather, navigational aids and equipment, regulations, airport traffic control procedures, and specialization in operation of radio set AN/MPN-1.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate-degree category, 2 semester hours in electronics, 2 in weather, 15 in air traffic control (2/74); in the upper-division baccalaureate category, credit in airport control tower operation on the basis of institutional evaluation (12/68). Version 2: In the lower-division baccalaureate/associate-degree category, 2 semester hours in electronics, 2 in weather, 15 in air traffic control (2/74); in the upper-division baccalaureate category, credit in airport control tower operation on the basis of institutional evaluation (12/68).

AF-1704-0007

CONTROL TOWER TECHNICIAN

(Controlling Tower Operator)

Course Number: AA27271; AB27231.
Location: 3308th Technical School, Keesler ABF, MS.
Length: 11-12 weeks (330 hours).
Exhibit Dates: 3/54-12/68.

Objectives: To train air traffic control operators.

Instruction: Lectures and practical exercises in navigational aids, weather, regulations, air traffic control procedures, and airport traffic control and approach control.

Credit Recommendation: In the lower-division baccalaureate/associate-degree category, 2 semester hours in navigation, 2 in weather, 1 in air traffic control (tower) (2/74). Version 2: In the lower-division baccalaureate/associate-degree category, 2 semester hours in navigation, 2 in weather, 1 in air traffic control (tower) (2/74). Version 2: In the lower-division baccalaureate/associate-degree category, 2 semester hours in navigation, 2 in weather, 1 in air traffic control (tower) (2/74).

AF-1704-0008

AIR ROUTE TRAFFIC CONTROL AND APPROACH CONTROL OPERATOR

Course Number: AB27320.
Location: 3308th Technical School, Keesler ABF, MS.

Objectives: To train air traffic controllers.

Instruction: Lectures and practical exercises in weather, navigation aids and equipment, traffic regulations, and airport and air traffic control operations.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate-degree category, 3 semester hours in weather, 3 in navigation, 21 in air traffic control (2/74); in the upper-division baccalaureate category, credit in navigation or meteorology on the basis of institutional evaluation (12/68).

AF-1704-0009

AIR TRAFFIC CONTROLLERS

Course Number: 163110.
Location: Air Training Command, Tyn dall ABF, FL.
Length: 8 weeks (1273 hours).
Exhibit Dates: 6/54-12/68.

Objectives: To train officers to perform duties as aircraft controllers in air defense and tactical air operations.

Instruction: Lectures and practical exercises in organization and functions of the Air Defense and Tactical Air Commands, electronics and communications, tactics and operations, weather, and basic radar control training.

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

AF-1704-0010

ADVANCED AIR TRAFFIC CONTROL OFFICER

Course Number: OAR1611.
Location: Technical Training Center, Keesler ABF, MS.
Length: 10 weeks (300 hours).
Exhibit Dates: 2/60-12/68.

Objectives: To train officers to plan and direct air traffic control activities.

Instruction: Lectures on duties and responsibilities of air traffic control staff officers, navigational aids, plans, programs, and budgets; and air traffic control planning exercises.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in air traffic control management (12/68).

AF-1704-0011

AIR TRAFFIC CONTROL OPERATOR (NON-RADAR)

Course Number: ABR2730A.
AF-1704-0012

JET ENGINE MECHANIC

Course Number: AA43133
Location: 3345th Technical School, Amarillo AFB, TX.
Length: 6 weeks (100 hours).
Exhibit Dates: 12/64-1/66.
Objectives: To train enlisted personnel in jet engine maintenance technicians.

Instruction: Lectures and practical exercises in maintenance of jet engines.

Credit Recommendation: 2 semester hours in aircraft maintenance management.

AF-1704-0013

AIRCRAFT MAINTENANCE TECHNICIAN

Objectives: To train airframe and powerplant technicians.

Instruction: Lectures and practical exercises in all aspects of aircraft maintenance.

Credit Recommendation: 4 semester hours in aircraft maintenance management.

AF-1704-0014

1. AIRCRAFT PNEUMATIC REPAIR TECHNICIAN
2. AIRCRAFT HYDRAULIC REPAIR TECHNICIAN
3. AIRCRAFT AND MISSILE PNEUMATIC REPAIR TECHNICIAN
4. AIRCRAFT AND MISSILE HYDRAULIC REPAIR TECHNICIAN

Location: Version 1: 3345th Technical School, Chanute AFB, IL. Version 2: 3345th Technical School, Chanute AFB, IL.
Objectives: To train aircraft maintenance personnel.

Instruction: Lectures and practical exercises in all aspects of aircraft maintenance.

Credit Recommendation: 3 semester hours in aircraft maintenance management.

AF-1704-0015

JET ENGINE BLOCK TEST AND VIBRATION ANALYSIS

Course Number: AZR43250-4.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 6 weeks (180 hours).
Exhibit Dates: 2/65-12/68.
Objectives: To train enlisted personnel in jet engine vibration analysis.

Instruction: Lectures and practical exercises in jet engine vibration analyzer operating principles, components, and indications interpretation, and jet engine block and vibration analysis.

Credit Recommendation: 1 semester hour in jet engine vibration analysis.

AF-1704-0016

JETF M-179-15 ENGINE

Course Number: 3AZR43250-7.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 5/66-12/68.
Objectives: To provide maintenance personnel with training in JETF 179-15 engine maintenance.

Instruction: Lectures and practical exercises in JETF 179-15 engine familiarization, field and organizational maintenance, troubleshooting, and inspection.

Credit Recommendation: 1 semester hour in jet engine maintenance.

AF-1704-0017

B-52 G-135, AND EC-135 FUEL SYSTEM REPAIRMAN AND WING SEALING

Course Number: AZR42450.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 7 weeks (210 hours).
Exhibit Dates: 10/63-7/65.
Objectives: To train enlisted personnel in fuel system maintenance.

Instruction: Lectures and practical exercises in fuel system maintenance.

Credit Recommendation: 3 semester hours in fuel system maintenance.

AF-1704-0018

J-57 JET ENGINE (W/O AFTERBURNER) ORGANIZATIONAL MAINTENANCE

Course Number: SS43250-46.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Objectives: To train maintenance and instructor personnel in the operation and maintenance of the J-57 engine (without afterburner).

Instruction: Lectures and practical exercises in all aspects of aircraft maintenance.

Credit Recommendation: 1 semester hour in jet engine maintenance.

AF-1704-0019

JET ENGINE BLOCK TEST AND TURBINE ANALYSIS

Course Number: AZR43250-4.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 6 weeks (180 hours).
Exhibit Dates: 2/65-12/68.
Objectives: To train enlisted personnel in jet engine vibration analysis.

Instruction: Lectures and practical exercises in jet engine vibration analyzer operating principles, components, and indications interpretation, and jet engine block and vibration analysis.

Credit Recommendation: 1 semester hour in jet engine vibration analysis.

AF-1704-0020

JET ENGINE (W/O AFTERBURNER) ORGANIZATIONAL MAINTENANCE

Course Number: SS43250-46.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Objectives: To train maintenance and instructor personnel in the operation and maintenance of the J-57 engine (without afterburner).

Instruction: Lectures and practical exercises in all aspects of aircraft maintenance.

Credit Recommendation: 1 semester hour in jet engine maintenance.
AF-1704-0019
FUEL CELL REPAIRS (B-52 and KC-135)
Course Number: ATSS5250-3.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 8/58-12/68.
Objectives: To train enlisted personnel in the repair and maintenance of aircraft fuel cells, with emphasis on the B-52 and KC-135 aircraft.
Instruction: Lectures and practical exercises in construction, identification, inspection, servicing, and repair for fuel cells.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0020
JET ENGINE VIBRATION ANALYZER
- OPERATOR (SPERRY)
Course Number: AT4S43250-72.
Location: Technical Training Center, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 9/61-12/68.
Objectives: To train enlisted personnel in the operation of the Sperry jet engine analyzer.
Instruction: Lectures and practical exercises in the description, location, and installation of jet engine analyzer components, review of jet engine systems for indicator indications and component frequencies, and minor troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester-hour in jet engine vibration analyzer operation (3/74).

AF-1704-0021
AIRCRAFT MECHANIC, RECIPROCATING, OVER TWO ENGINES
Course Number: AB4R43131B; AB4R43131B-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 9/61-12/68.
Objectives: To train enlisted personnel in the repair and maintenance of aircraft reciprocating engines.
Instruction: Lectures and practical exercises in aircraft mechanics fundamentals; reciprocating-engine systems and operation; forms and records familiarization; inspection and servicing procedures; aircraft structures, flight controls, electrical and hydraulic systems, instruments, and landing gear operation and maintenance.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester-hour in reciprocating-engine maintenance and servicing (3/74).

AF-1704-0022
1. RECIPROCATING ENGINE MECHANIC
2. RECIPROCATING ENGINE MECHANIC (AIRCRAFT RECIPROCATING ENGINE MECHANIC)
Course Number: Version 1: ABR434231.
Version 2: AB4R43213J.
Version 3: ABR43231.
Location: All Versions: 3750th Technical School, Sheppard AFB, TX. Version 2: 3345th Technical School, Chanute AFB, IL.
Exhibit Dates: Version 1: 8/60-12/73.
Version 2: 11/54-7/60.
Objectives: To train airmen to maintain and repair reciprocating aircraft reciprocating engines.
Instruction: Lectures and practical exercises in aircraft fundamentals, elementary theory of flight, aeronautics, maintenance, basic engines, engine systems, power package maintenance, and engine maintenance and conditioning.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in reciprocating-engine maintenance (3/74).

AF-1704-0023
JET AIRCRAFT MECHANIC
Course Number: ABR43131.
Location: Technical Training Center, Sheppard AFB, TX.
Length: 12 weeks (342 hours).
Exhibit Dates: 2/67-12/68.
Objectives: To train airmen as apprentice jet aircraft mechanics.
Instruction: Lectures and practical exercises in the fundamentals of mechanics, including maintenance and inspection of airframe, landing gear, flight control, power plant, air conditioning and pressurization, electrical, hydraulic, fuel, utilities and instrument systems, ground safety, engine change; corrosion control, and maintenance forms and documentation.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in jet aircraft maintenance (2/74).

AF-1704-0024
AIRFRAME TITANIUM REPAIR
Course Number: SSS53450-2.
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 6 weeks (90 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train airmen as airframe titanium repairmen.
Instruction: Lectures and practical exercises in the identification and inspection of titanium, preparation of titanium for repair and fabrication, forming, welding, inspection, and final inspection of repaired parts.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in titanium repair (2/74).

AF-1704-0025
BONDED HONEYCOMB AND STRUCTURAL SEALING (B-52/KC-135)
1. REPAIR OF BONDED HONEYCOMB AND STRUCTURAL SEALING (B-52/KC-135)
2. REPAIR OF BONDED AND BRAZED HONEYCOMB STRUCTURES (B-58)
Course Number: Version 1: AB4R43231.
Version 2: AB4R43231.
Version 3: ABR434231.
Location: All Versions: 3750th Technical School, Amarillo AFB, TX. Version 2: 3345th Technical School, Chanute AFB, IL.
Exhibit Dates: Version 1: 1/70-12/73.
Objectives: To train enlisted personnel to perform all flight engineers.
Instruction: All Vars: Lectures and practical experience in jet aircraft flight engineering, including ground instruction in navigation, speed, distance, and fuel conversion factors and formulae, and graphic and linear interpolation; aerodynamics, weight and balance, takeoff and landing planning; direct navigation; cruising; and descent performance analysis; log maintenance; minimum load mission requirements; and mission planning and in-flight replanning.
AF-1704-0031

C-141 FLIGHT ENGINEER TECHNICIAN

Course Number: A435XOC-1
Location: 443d Military Airlift Wing, Altus AFB, OK.
Length: 9 weeks (131 hours).
Exhibit Dates: 7/72-Present.

Objectives: To provide flight engineers with knowledge of the normal and emergency functions of the C-141 aircraft.

Instruction: Lectures and practical exercises on the C-141 aircraft, its systems and components; operation, troubleshooting, and performance, and a practical knowledge of the C-5 aircraft, its systems, and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in flight engineer technician (2/74); in the upper-division baccalaureate/associate degree category, 4 semester hours in flight engineer technician (2/74).

AF-1704-0032

JET ENGINE CONDITIONING AND VIBRATION ANALYZER (SPERRY)

Course Number: AZR43250-1
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 4/58-12/68.

Objectives: To train jet engine mechanics to use the Sperry vibration analyzer and to perform jet engine conditioning analysis and troubleshooting, adjusting, and removal and installation.

Instruction: Lectures and practical exercises in the fundamentals of engine operation and maintenance; vibration analyzer operation and use; jet engine vibration and conditioning analysis; jet engine operation, application, and analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in jet engine conditioning and vibration analysis (2/74).

AF-1704-0033

C-5 FLIGHT ENGINEER TECHNICIAN (FLIGHT ENGINEER SCHOOL, C-5)

Course Number: A4357OC-4
Location: 443d Military Airlift Wing, Altus AFB, OK.
Length: 9 weeks (130 hours).
Exhibit Dates: 2/73-Present.

Objectives: To provide flight engineers with knowledge of the C-5 aircraft, its subsystems, and troubleshooting procedures.

Instruction: Lectures and practical exercises in troubleshooting and solution of problems.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0034

RECOGNIZING ENGINE MECHANIC (ENGINE ANALYZER)

Course Number: SS43251-1
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120 hours).

Objectives: To train mechanics to operate Sperry engine analyzer equipment.

Instruction: Lectures and practical exercises in theory and operation of high- and low-tension magneto-ignition systems, engine analyzer components, description, location, and installation; various ignition and vibration pattern waveforms; reciprocating engine theory; and analyzer troubleshooting.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0035

AIRCRAFT ELECTRICAL REPAIRMAN (F-101B)

Course Number: SS42350-52
Location: 3320 Technical Training Wing, Amarillo AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 2/57-12/68.

Objectives: To train aircraft electrical repairmen and technicians to repair the F-101B aircraft.

Instruction: Instruction includes aircraft familiarization, location and function of electrical and related systems and components, inspection, and maintenance, including operational checks, servicing, troubleshooting, adjusting, and removal and installation.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-1704-0036

1. AIRCRAFT MAINTENANCE SPECIALIST, JET ENGINE ONE AND TWO ENGINES
2. AIRCRAFT MAINTENANCE SPECIALIST, JET AIRCRAFT ONE AND TWO ENGINES
3. AIRCRAFT MECHANIC, JET ONE AND TWO ENGINES
4. AIRCRAFT MECHANIC, JET TWO ENGINES

AF-1704-0037

JET ENGINE ACCIDENT INVESTIGATION

AF-1704-0038

AIRCRAFT STRUCTURAL SEALING, B-52

AF-1704-0039

AIRCRAFT PNEUMATIC REPAIRMAN

AF-1704-0040

AIRCRAFT PROPELLER TECHNICIAN
COURSE EXHIBITS


Objectives: To train enlisted personnel to maintain and repair pneumatic and hydraulic aircraft systems.

Instruction: Lectures and practical experience in operation, disassembly, inspection, repair, assembly, testing, and adjustment of hydraulic and/or pneumatic systems.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, credit in pneumatic and hydraulic maintenance and repair on the basis of institutional evaluation (3/74).


Objectives: To train enlisted personnel to become apprentice aircraft mechanics.

Instruction: Lectures and practical exercises in aircraft maintenance fundamentals, including location, inspection, servicing, and minor repair of aircraft and engine components.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, credit in hydraulic and pneumatic aircraft systems.


Objectives: To train enlisted personnel to perform aircraft propeller repair and maintenance.

Instruction: Lectures and practical experience in operation, inspection, and troubleshooting of fuel systems; fuel tank components; fuel preparation; fuel system and test equipment; and safety practices.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft fuel system technology (3/74).

AF-1704-0048
FIELD AND ORGANIZATIONAL MAINTENANCE OF 346G60 PROPELLER
Course Number: SS44515-28.
Location: Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 4/58-12/68.
Objectives: To train aircraft maintenance technicians in aircraft and propeller repair and maintenance.
Instruction: Lectures in aircraft and propeller repair and maintenance.
Credit Recommendation: In the lower-division baccalaureate degree category, 1 semester hour in aircraft maintenance (2/74).

AF-1704-0051
J57-P-23 JET ENGINE FIELD MAINTENANCE (F-102)
Course Number: ATSR43250-67.
Location: Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/56-12/68.
Objectives: To train jet engine mechanics in the maintenance of the J57-P-23 engine.
Instruction: Lectures and practical exercises in the maintenance of the J57-P-23 jet engine.
Credit Recommendation: In the lower-division baccalaureate degree category, 1 semester hour in jet engine test facility familiarization (2/74).

AF-1704-0052
J97-15 ENGINE SYSTEMS AND ENGINE RUN-UP
Course Number: AZR43250-8.
Location: Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 6/66-12/68.
Objectives: To train airman in the maintenance and operation of the J97-15 jet engine system.
Instruction: Lectures and practical exercises in safety, power control, fuel systems, anti-icing systems, test stand familiarity, operating procedures and limits, and engine operation, troubleshooting, and evaluation.
Credit Recommendation: In the lower-division baccalaureate degree category, 1 semester hour in jet engine systems (2/74).

AF-1704-0053
F-106 AIRCRAFT MECHANIC
Course Number: ATS4315C-16.
Location: Technical Training Center, Amarillo AFB, TX.
Length: 5 weeks (150 hours).
Exhibit Dates: 4/59-12/68.
Objectives: To train airman in the operation of the F-106A aircraft.
Instruction: Lectures and practical exercises in identification, location, and function of system components; troubleshooting, and servicing; replacement of components; and minor repairs and adjustments.
Credit Recommendation: In the lower-division baccalaureate degree category, 1 semester hour in aircraft systems inspection (2/74).

AF-1704-0055
AIRCRAFT MECHANIC C-130A
Course Number: SS43151E-32.
Location: Amarillo AFB, TX.
Length: 5 weeks (150 hours).
Exhibit Dates: 12/56-12/68.
Objectives: To familiarize airmen with the maintenance, design, construction, and systems operation of specific aircraft.
Instruction: Lectures and practical exercises in the identification and location of system components, functional operating principles, inspection, operational checks, removal and replacement, servicing, and trouble analysis.
Credit Recommendation: In the lower-division baccalaureate degree category, 2 semester hours in aircraft systems inspection (2/74).

AF-1704-0056
AIRCRAFT MECHANIC, T-33A
Course Number: SS43151C-26.
Location: Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 11/69-12/73.
Objectives: To provide enlisted personnel with an orientation in aircraft systems operation.
Instruction: Lectures and practical exercises in aircraft orientation, component and systems location, adjustment, inspection, servicing, and maintenance.
Credit Recommendation: In the lower-division baccalaureate degree category, 2 semester hours in aircraft systems familiarization (2/74).

AF-1704-0057
AIRCRAFT ENGINE TEST STAND CALIBRATION
Course Number: 2ASR32470-8.
Location: Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 11/69-12/73.
Objectives: To train enlisted personnel in the operation of turbine engine test stands.
Instruction: Practical exercises in jet engine principles, major parts of axial flow engines, calibrator test stand, analysis of test stand data, calibration principles, and measurement.
Credit Recommendation: In the lower-division baccalaureate degree category, 1 semester hour in aircraft engine test stand (2/74).

AF-1704-0058
AIRCRAFT MECHANIC B-52G
Course Number: AZR43250-67.
Location: Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/56-12/68.
Objectives: To train airman in the maintenance and operation of the B-52G aircraft.
Instruction: Lectures and practical exercises in the maintenance and operation of the B-52G aircraft.
Credit Recommendation: In the lower-division baccalaureate degree category, 1 semester hour in aircraft systems inspection (2/74).
**COURSE EXHIBITS**

| Course Number | SS43151G-15 | Location: 3320th Technical School, Amarillo AFB, TX | Length: 4 weeks (120 hours) | Exhibit Dates: 4/58-12/68 | Objectives: To train selected aircraft mechanics and technicians in the maintenance of F-101B aircraft.

| Course Number | SS43250-37 | Location: 3345th Technical School, Chanute AFB, IL | Length: 3 weeks (90 hours) | Exhibit Dates: 5/58-12/68 | Objectives: To train key maintenance and instructor personnel in the servicing of 1,577 engines of 53 aircraft.

| Article: | | | | | |

**AF-1704-0060**

**AIRCRAFT CORROSION CONTROL**

| Course Number: 3AR53550-2 | Location: Sheppard AFB, TX | Length: 2 weeks (64 hours) | Exhibit Dates: 7/73-12/73 | Objectives: To train enlisted personnel to identify and control corrosion on aircraft and related equipment.

**Instruction:** Practical experience and lectures.

| Article: | | | | | |

**AF-1704-0061**

**AIRCRAFT MECHANIC, F-101B**

| Course Number: ATS33151C-15 | Location: 3320th Technical School, Amarillo AFB, TX | Length: 4 weeks (120 hours) | Exhibit Dates: 2/58-12/68 | Objectives: To train selected aircraft mechanics and technicians in the maintenance of F-101B aircraft.

**Instruction:** Practical operation of aircraft maintenance, including location and function of systems and components, inspection and maintenance, operation checks, servicing, troubleshooting, and adjusting and removing parts.

| Article: | | | | | |

**AF-1704-0062**

**AIRCRAFT MECHANIC, F-101A**

| Course Number: SS43151I-8 | Location: 3320th Technical School, Amarillo AFB, TX | Length: 4 weeks (120 hours) | Exhibit Dates: 4/58-12/68 | Objectives: To train selected aircraft mechanics and technicians in the maintenance of F-101A aircraft.

**Instruction:** Practical experience in location, function, and maintenance of systems and components, identification of system components and their function, and troubleshooting of 1,577 engines of 53 aircraft.

| Article: | | | | | |

**AF-1704-0063**

**AIRCRAFT MECHANIC, F-100D**

| Course Number: SS43151C-10 | Location: 3320th Technical School, Amarillo AFB, TX | Length: 4 weeks (120 hours) | Exhibit Dates: 4/58-12/68 | Objectives: To train selected aircraft mechanics with transition training on the F-100D system.

**Instruction:** Lectures and practical exercises in location, function, and maintenance of systems and components, identification of system components and their function, servicing and troubleshooting, adjustment, and replacing.

| Article: | | | | | |

**AF-1704-0064**

**AIRCRAFT AND AIRPLANE MECHANIC, Liaison Types**

| Course Number: DA30060 | Location: Flying Training Air Force, Gary AFB, TX | Length: 13 weeks (360 hours) | Exhibit Dates: 5/54-12/68 | Objectives: To train selected aircraft mechanics and technicians in the maintenance of F-101B aircraft.

**Instruction:** Practical operation of aircraft maintenance, including location and function of systems and components, inspection and maintenance, operation checks, servicing, troubleshooting, and adjusting and removing parts.

| Article: | | | | | |

**AF-1704-0065**

**AIRCRAFT HYDRAULIC REPAIRMAN, F-100D/F**

| Course Number: SS42152-15 | Location: 3320th Technical School, Amarillo AFB, TX | Length: 3 weeks (90 hours) | Exhibit Dates: 1/58-12/68 | Objectives: To train aircraft hydraulic mechanics in the F-100D/F utility hydraulic power system.

**Instruction:** Lectures and practical exercises in operating and repairing the F-100D/D/D utility hydraulic power system, identification, location, and function of all system components, and operating and repairing landing gear, swing flap, and flight control systems.

| Article: | | | | | |

**AF-1704-0066**

**FIELD AND ORGANIZATIONAL MAINTENANCE**

| Course Number: SS43250-28 | Location: Sheppard AFB, TX | Length: 4 weeks (120 hours) | Exhibit Dates: 4/58-12/68 | Objectives: To train jet engine mechanics to perform flight-line and shop maintenance on small turbine engines.

**Instruction:** Lectures and practical exercises in small-turbine maintenance, locating and identifying system components, and operating, inspection, removal, repair, replacement, adjustment, and maintenance of system components.

| Article: | | | | | |

**AF-1704-0067**

**1. AIRCRAFT MAINTENANCE SPECIALIST (JET, OVER TWO ENGINES)**

| Article: | | | | | |

**2. AIRCRAFT MAINTENANCE SPECIALIST (JET, OVER TWO ENGINES)**

| Article: | | | | | |

**3. AIRCRAFT MAINTENANCE SPECIALIST (JET, OVER TWO ENGINES)**

| Article: | | | | | |
AIR FORCE 1-93

AF-1704-0068

JET ENGINE MECHANIC (GAM-77)

Course Number: AT343250-65

Location: Technical Training Center, Chanute AFB, IL.

Length: 4 weeks (120 hours).

Objectives: To train enlisted personnel in the operation, maintenance, and repair of the GAM-77 turbine engine.

Instruction: Lectures and practical exercises in the maintenance and repair of the GAM-77 turbine engines. Objectives: To train enlisted personnel in the operation, maintenance, and repair of the GAM-77 turbine engine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in turbine engine maintenance and repair (2/74).

AF-1704-0069

JET ENGINE TECHNICIAN, T64-7

Course Number: 3AZR43270-3

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 4 weeks (108 hours).

Objectives: To provide maintenance personnel with the knowledge and skills necessary to perform maintenance operations on small centrifugal-flow turbine engines.

Instruction: Lectures on gas-turbine engine operation theory, and fuel, lubrication, ignition, and electrical systems operation; and practical exercises in installing, removing, disassembly, reassembly, inspection, operation, and trouble analysis of gas-turbine engines.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in turbine engine maintenance and repair (2/74).

AF-1704-0070

MASTER CREW CHEF

Course Number: None.

Location: 443d Military Airlift Wing, Altus AFB, OK.

Length: 2 weeks (68 hours).

Objectives: To provide enlisted personnel with a basic understanding of maintenance management.

Instruction: Lectures and practical experience in systems management and the fundamentals of organization, maintenance management, and the supply of procedures, and standards and inspection.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in aircraft systems familiarization/management (2/74).
<table>
<thead>
<tr>
<th>Course Exhibits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>AF-1704-0071</strong></td>
<td>Reciprocating ENGINE CONDITIONING (with Analyses (R280 A and Smaller). Reciprocating ENGINE CONDITIONING (with Analyses (R3350)). Reciprocating ENGINE CONDITIONING (with Analyses (R4360)). Aircraft Reciprocating ENGINE CONDITIONING. <strong>Location:</strong> 3750th Technical School, Sheppard AFB, TX. <strong>Length:</strong> 5 weeks (150 hours). <strong>Exhibit Dates:</strong> 5/59-12/68. <strong>Objectives:</strong> To train enlisted personnel in the conditioning of aircraft reciprocating engines. <strong>Instruction:</strong> Lectures and practical experience in the operating principles of reciprocating engines, and system identification and operation, testing, and adjustment. <strong>Credit Requirement:</strong> In the lower-division baccalaureate/associate degree category, 2 semester hours in reciprocating-engine laboratory (2/74).</td>
</tr>
<tr>
<td><strong>AF-1704-0072</strong></td>
<td>Jet Engine Mechanic (J-55 Engine Repair, Build-Up, and Installation), GAM-72. <strong>Location:</strong> 3320th Technical School, Amarillo AFB, TX. <strong>Length:</strong> 4-5 weeks (120-150 hours). <strong>Exhibit Dates:</strong> 3/58-12/68. <strong>Objectives:</strong> To train jet engine mechanics to perform minor overhaul and testing on J57 jet engines. <strong>Instruction:</strong> Lectures and practical exercises in J57 jet engine overhaul and testing, including test data analysis, testing tools and equipment usage, systems operation, and engine assembly, inspection, cleaning, repair, and storage. <strong>Credit Requirement:</strong> In the lower-division baccalaureate/associate degree category, 2 semester hours in jet engine mechanics (2/74).</td>
</tr>
<tr>
<td><strong>AF-1704-0073</strong></td>
<td>Turboprop Engine Maintenance (B-52H Turboprop Engine Field and Organizational Maintenance). <strong>Location:</strong> 3345th Technical School, Chanute AFB, IL. <strong>Length:</strong> 6-7 weeks (180-198 hours). <strong>Exhibit Dates:</strong> 12/66-12/68. <strong>Objectives:</strong> To train maintenance personnel to perform field and organizational maintenance on the B-52H turboprop engine. <strong>Instruction:</strong> Lectures and practical exercises in B-52H turboprop engine maintenance, including engine installation, operation and maintenance in the upper-division components, systems, and accessories; safety procedures; special tools and equipment usage; and B-52H engine test results. <strong>Credit Requirement:</strong> In the lower-division baccalaureate/associate degree category, 2 semester hours in jet engine maintenance and repair (2/74).</td>
</tr>
</tbody>
</table>
AF-1704-0079

1. HELICOPTER MECHANIC
2. HELICOPTER MECHANIC
3. HELICOPTER MECHANIC, ROVARY WING
4. AVIATION MECHANIC, FIGHTER

Course Number: Version 3: ABR43131; Version 4: 0BR43131.


Objectives: To train enlisted personnel to perform as helicopter mechanics.

Instruction: Lectures and practical experience in helicopter maintenance and repair, including function, identification, location, inspection, operational checking, servicing, and minor maintenance of aircraft and engine components and systems, ground support equipment usage, and technical control procedures.

Credit Recommendation: Version 3: In the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter maintenance (2/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in helicopter maintenance (2/74).

AF-1704-0080

AIRCRAFT MAINTENANCE SPECIALIST TURBO-PROP AIRCRAFT

(AIRCRAFT MECHANIC, TURBO-PROP AIRCRAFT (C-130 AND C-131))

Course Number: ABR43131F.

Location: School of Applied Aerospace Sciences, Sheppard AFB, TX. Length: 11-13 weeks (350-360 hours).

Exhibit Dates: 5/65-12/73.

Objectives: To train enlisted personnel to inspect and maintain turbo-prop aircraft.

Instruction: Lectures and practical exercises in the maintenance of airframe, electrical, hydraulic, utility, landing gear, flight control, fuel and engine systems, aircraft corrosion control, technical orders, and maintenance forms and documentation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft systems inspection and maintenance (2/74).

AF-1704-0081

JET ENGINE MECHANIC, TF-39

Course Number: AAZ621520-6.

Location: 3345th Technical School, Chanute AFB, IL.

Length: 7 weeks (210 hours).

Exhibit Dates: 7/70-12/73.

Objectives: To provide jet engine mechanics with supplemental training in the maintenance of the TF-39 engine.

Instruction: Lectures and practical exercises in the theory of turbofan engine operation, location, identification, operation, and adjustment of units in the engine systems; and disassembly, inspection, and assembly of TF-39 engines.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft maintenance (2/74).

AF-1704-0082

JET ENGINE MECHANIC

(AIRCRAFT JET ENGINE MECHANIC)


Objectives: To train airmen to remove, disassemble, adjust, repair, and replace major jet engine units and systems.

Instruction: All Versions: Lectures and practical exercises in jet engine fundamentals, engine preservation and storage procedures, engine systems operation and inspection; general engine maintenance; and engine inspection, installation, disassembly, adjustment, and repair procedures.


AF-1704-0083

AIRCRAFT MAINTENANCE INDUCTION TRAINING (SAC)

Course Number: OZR43141-2.

Location: Technical Training Center, Chanute AFB, IL.

Length: 6 weeks (138 hours).

Exhibit Dates: 10/61-12/68.

Objectives: To train enlisted personnel in aircraft electronics maintenance.

Instruction: Lectures and practical exercises in line maintenance organization, publications, control, data collection systems, precision measuring equipment, records analysis, quality control, accident investigation, safety, and problem solving.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aviation maintenance organization (12/68).

AF-1704-0084

AIRCRAFT MECHANIC, B-52H

Course Number: AT43115LE-33.

Location: Technical Training Center, Chanute AFB, IL.

Length: 8 weeks (240 hours).

Exhibit Dates: 1/61-12/68.

Objectives: To train key maintenance and instructor personnel in the maintenance of B-52H aircraft.

Instruction: Lectures and practical experience in B-52H aircraft systems familiarization, operation, inspection, maintenance, and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in aircraft maintenance on the basis of institutional validation (3/74), in the upper-division baccalaureate category, credit in aircraft maintenance on the basis of institutional validation (12/68).

AF-1704-0085

J-79 ENGINE, ORGANIZATIONAL MAINTENANCE AND CONTROL SYSTEM, F-104

Course Number: ATR43270-3.

Location: 3145th Technical School, Chanute AFB, IL.

Length: 6 weeks (180 hours).

Exhibit Dates: 8/56-12/68.
AF-1704-0086

AIRCRAFT MECHANIC, F-104

Course Number: SS43151C-12
Location: 3345th Technical School, Chanute AFB, IL.
Length: 6 weeks (180 hours).
Exhibit Dates: 6/58-12/68.

Objectives: To train personnel to maintain and inspect F-104 aircraft.

Instruction: Lectures and practical exercises in the maintenance, troubleshooting, and repair of F-104 aircraft, structure, aircraft and power plant systems, accessories, and associated equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance and operation (2/74).

AF-1704-0087

J-79 ENGINE, F & D MAINTENANCE AND CONTROL SYSTEM (F-104)

Course Number: AF43270-2
Location: 3345th Technical School, Chanute AFB, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 8/58-12/68.

Objectives: To train personnel to maintain J-79 jet engines and engine control systems.

Instruction: Lectures and practical exercises in identification and location of components, engine operating principles, inspection, maintenance, engine removal and installation, engine teardown and build-up, and troubleshooting of the J-79 engine, accessories, control system, and related equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in J-79 engine maintenance and control (2/74).

AF-1704-0088

AIRCRAFT MAINTENANCE TECHNICIAN, RECIPROCATING ENGINE AIRCRAFT

Course Number: 'AAAR43171A; AAR43171B; AA34317B.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 11 weeks (420-480 hours).
Exhibit Dates: 11/55-12/68.

Objectives: To train aircraft mechanics to plan and schedule maintenance work.

Instruction: Lectures and laboratory exercises in mechanics, aircraft electrical systems, aircraft hydraulic systems, aircraft records, maintenance management, and personnel utilization.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in shop management, 6 in electricity and electrical laboratory, 1 in aircraft hydraulics laboratory, 1 in reciprocating-engine laboratory (3/74); in the upper-division baccalaureate category, 2 semester hours in shop management (12/68), and credit in electricity and electrical laboratory on the basis of institutional evaluation (3/74).

AF-1704-0089

J-79 ENGINE FIELD AND ORGANIZATIONAL MAINTENANCE (F-104)

Course Number: SS43250-39
Location: 3345th Technical School, Chanute AFB, IL.
Length: 5 weeks (150 hours).
Exhibit Dates: 5/58-12/68.

Objectives: To train jet engine technicians to maintain J-79 jet engines.

Instruction: Lectures and practical exercises in identification and location of components, engine operating principles, inspection, maintenance, engine removal and installation, engine teardown and build-up, and troubleshooting of the J-79 engine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in turbine engine maintenance and repair (2/74).

AF-1704-0090

J-79 ENGINE, ORGANIZATIONAL MAINTENANCE (F-104)

Course Number: SS43270-1
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 5/58-12/68.

Objectives: To train jet engine technicians to maintain, troubleshoot, and inspect J-79 jet engines, engine systems, accessories, and associated equipment.

Instruction: Lectures and practical exercises in engine familiarization, sound and vibration systems, engine operating principles, inspection, maintenance, engine removal and installation, engine teardown and build-up, and troubleshooting of the J-79 engine, accessories, control system, and related equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in jet engine maintenance and repair (2/74).

AF-1704-0091

STRUCTURAL REPAIR OF HIGH PERFORMANCE AIRCRAFT

Course Number: Version 1: 3AZR43170-3; Version 2: 10/65-12/73.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: Version 1: 4 weeks (120 hours).
Version 2: 6 weeks (180 hours).
Exhibit Dates: Version 1: 1/69-12/73.
Version 2: 10/65-12/68.

Objectives: To provide highly qualified maintenance personnel with supplemental training in the maintenance of HH-1 helicopters and T-38 engines.

Instruction: Lectures and practical exercises in identification, location, function, servicing, replacement, inspection, and repair of technical and organizational training in HH-1 helicopters and T-38 engines.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter mechanics (2/74).

AF-1704-0092

JET ENGINE TECHNICIAN J-57 OI (F-100)

Course Number: 2ASR43270-5.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 5 weeks (150 hours).
Exhibit Dates: 9/70-12/70.

Objectives: To provide supplemental training for Air Force maintenance personnel in intermediate and organizational maintenance on J-57 engines.

Instruction: Lectures and practical exercises in troubleshooting, and adjustments of the J-57 engine.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in turbine engine repair and maintenance on the basis of institutional evaluation (2/74).

AF-1704-0093

HELICOPTER MECHANIC, UH-1F

Course Number: Version 1: 3AZR43170-1; Version 2: 11/65-12/73.
Location: 3345th Technical School, Sheppard AFB, TX.
Length: Version 1: 4 weeks (120 hours).
Version 2: 6 weeks (180 hours).
Exhibit Dates: Version 1: 1/69-12/73.
Version 2: 10/65-12/68.

Objectives: To provide highly qualified maintenance personnel with supplemental training in the maintenance of HH-1 helicopters and T-38 engines.

Instruction: Lectures and practical exercises in identification, location, function, servicing, replacement, inspection, and repair of technical and organizational training in HH-1 helicopters and T-38 engines.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter mechanics (2/74).

AF-1704-0094

HELICOPTER MECHANIC HH-1H

Course Number: 3AZR43170-4.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 2/73-12/73.

Objectives: To provide highly qualified maintenance personnel with supplemental training in the maintenance of HH-1H helicopters and T53-L-13 engines.

Instruction: Lectures and practical exercises in identification, location, function, servicing, replacement, inspection, and repair of technical and organizational training in HH-1H helicopters and T53-L-13 engines.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in turbine engine repair and maintenance on the basis of institutional evaluation (2/74).
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter maintenance (2/74).

AF-1704-0095
Helicopter Mechanic, (UH-1N)
Course Number: 3AZR43170-7.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 6/71-12/73.
Objectives: To train maintenance personnel to maintain and repair UH-1N helicopters and T-33 engines.

Instruction: Practical experience in identification, location, function, servicing, replacement, and troubleshooting of helicopter systems, and preparation of engines for storage.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter maintenance (2/74).

AF-1704-0096
Helicopter Mechanic, HH-43B
Course Number: 3AZR43170-1; 3345th Technical School, Sheppard AFB, TX.
Length: 6 weeks (180 Hours).
Exhibit Dates: 11/65-12/73.
Objectives: To provide highly qualified maintenance personnel with supplemental training in the field and organizational maintenance of HH-43B helicopters, including limited field maintenance on T-53 engines.

Instruction: Lectures and practical exercises in engine, fire, and organizational maintenance; helicopter and aircraft systems, operational theory of gas turbine engines; safety practices; engine removal, storage, and installation; and control rigging.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in helicopter repair and maintenance on the basis of institutional evaluation (2/74).

AF-1704-0097
Jet Engine Familiarization
Course Number: SS43250-34.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 5/58-12/68.
Objectives: To train enlisted personnel in jet engine system maintenance.

Instruction: Lectures and practical exercises in principles of operation, construction features, maintenance, inspection, operation and troubleshooting of jet engine systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in jet engine familiarization (2/74).

AF-1704-0098
Aircraft Hydraulic Repairman B-52G
(AIRCRAFT HYDRAULIC REPAIRMAN B-52)
Course Number: ATS42152-5.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 8/58-12/68.
Objectives: To train hydraulic repairmen to carry out maintenance responsibilities on the B-52G aircraft.

Instruction: Lectures and practical exercises in identification and location of systems, components, understanding them, and troubleshooting of B-52G hydraulic systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft hydraulic systems (2/74).

AF-1704-0099
Aircraft Electrical Repairman, C-130A
Course Number: SS42350-47.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train airman to perform field and organizational maintenance on aircraft electrical systems and components.

Instruction: Lectures and practical exercises in electrical systems and circuits, including identification and location of electrical systems and components, and inspection, testing, removal, servicing, and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft electrical laboratory (2/74).

AF-1704-0100
Aircraft Hydraulic Repairman, C-130A
Course Number: SS42152-21.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train airman to perform field and organizational maintenance on aircraft hydraulic systems and components.

Instruction: Lectures and practical exercises in C-130A aircraft hydraulic systems and components, including inspection, testing, removal, replacement, servicing, and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in hydraulic systems laboratory (2/74).

AF-1704-0101
Mechanical Accessories and Equipment Repairman, C-130A
Course Number: SS42251-15.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train airman to repair aircraft mechanical accessories.

Instruction: Lectures and practical exercises in C-130 aircraft air conditioning and pressurization systems, including identification and location of system components, and inspection, testing, removal, servicing, and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in air conditioning and pressurization systems (2/74).

AF-1704-0103
Field and Organizational Maintenance A6341FN-D1 Propeller
Course Number: SS42151-27.
Location: 3345th Technical School, Sheppard AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train selected enlisted personnel in field inspection and maintenance of the A6341FN-D1 propeller.

Instruction: Lectures and practical exercises in theory of propeller systems operation, trouble analysis and unit adjustment, and propeller removal, installation, inspection, and maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft propeller laboratory (2/74).

AF-1704-0104
Aircraft Electrical Repairman, F-101A
Course Number: SS42350-45.
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train experienced aircraft electrical repairmen and technicians in the specific systems of the F-101A aircraft.

Instruction: Lectures and practical exercises in the maintenance of the F-101A aircraft, including aircraft familiarization, location and function of electrical and related systems and components, and inspection, maintenance, operational checks, servicing, troubleshooting, adjusting, removal, and installation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

AF-1704-0105
Missile Engine Mechanic/Technician (SM-65F)
(MISSILE ENGINE MECHANIC/TECHNICIAN (SM-65))
Course Number: ATS44371A-1; ATS43351-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 12-14 weeks (360-420 hours).
Exhibit Dates: 1/60-12/68.
Objectives: To train airman to operate, maintain, and repair the SM-65 propulsion system, subsystems, and components.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of the SM-65 propulsion system, subsystems, and components, including weapons systems introduction, booster engine and sustainer and vernier engine system components, engine system components, engine system components, engine system components, and troubleshooting.

Credit Recommendation: No credit because of the limited specialized nature of the course (3/74).
AF-1704-0106
AIR TRAFFIC CONTROL OPERATOR (RADAR)
Course Number: ABR27230B.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 52-23 weeks (570-600 hours).
Exhibit Dates: 9/60-12/68.
Objectives: To train enlisted personnel to be air traffic control radar operators.
Instruction: Lectures and practical exercises in air traffic control operations, including aircraft performance, navigation aids, traffic control procedures and rules, communications, GCA equipment operation and check procedures, and operating experience.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0107
AIR TRAFFIC CONTROL OPERATOR (RADAR) (ARMY)
Course Number: ABR27230B-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 18 weeks (540 hours).
Exhibit Dates: 5/63-12/68.
Objectives: To train enlisted personnel as air traffic control radar operators.
Instruction: Lectures and practical exercises in principles of air traffic control, weather, air navigation aids, communications, and tower operation.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0108
MISSILE SYSTEMS ANALYST SPECIALIST (TM-68A)
Course Number: ALR31450F.
Location: 34150th Technical School, Lowry AFB, CO.
Length: 12 weeks (360 hours).
Exhibit Dates: 6/61-12/68.
Objectives: To provide enlisted personnel with missile launch crew orientation as a prerequisite for launch crew supervision and missile support and nuclear safety.
Instruction: Lectures and practical exercises in flight fundamentals, control systems; radar, propulsion, fuel, and hydraulic systems operation; and electronic fundamentals, including AC and DC theory, reactive circuits, vacuum tubes, transistors, amplifiers, generator scope, and power distribution.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in navigation or meteorology on the basis of institutional evaluation (4/74), and in the upper-division baccalaureate category, credit in navigation or meteorology on the basis of institutional evaluation (12/68).

AF-1704-0109
MISSILE PNEUMATIC REPAIRMAN
Course Number: ABR44230A.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12 weeks (360 hours).
Exhibit Dates: 8/62-12/68.
Objectives: To train enlisted personnel to operate, test, troubleshoot, and repair specialized ground and airborne equipment, including missiles, pneumatic and hydraulic devices.
Instruction: Lectures and practical exercises in guided missile hydraulic and pneumatic system operation, maintenance, and repair.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0110
MISSILE PNEUMATIC REPAIRMAN (SM-65F)
Course Number: ABR44230A-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240 hours).
Exhibit Dates: 9/61-12/68.
Objectives: To train enlisted personnel to service, troubleshoot, and repair specialized missiles, ground and airborne equipment, and hydraulic and pneumatic devices.
Instruction: Lectures and practical exercises in weapon system introduction; hydraulic and pneumatic system components and operation; and repair.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0111
MISSILE PNEUMATIC REPAIRMAN, WS-133A, B, A-M
(MISSILE PNEUMATIC REPAIRMAN, WS-133A)
Course Number: ALR44230-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (108-120 hours).
Exhibit Dates: 6/65-12/68.
Objectives: To train enlisted personnel to operate, troubleshoot, and maintain specific guided missile hydraulic and pneumatic systems.
Instruction: Lectures and practical exercises in ballistic missile hydraulic and pneumatic systems operation and maintenance, including missile orientation, weapon system environmental hazards, pneumatic system components description and operation, troubleshooting procedures, and replacement and minor repair of hydraulic and pneumatic devices used in guided missile systems.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0112
MISSILE PNEUMATIC REPAIRMAN (PGM-16D)
(MISSILE PNEUMATIC REPAIRMAN (SM-65D))
Course Number: ABR44230B.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 10 weeks (300 hours).
Exhibit Dates: 7/62-12/68.
Objectives: To train airmen to repair missile pneumatic and hydraulic devices.
Instruction: Lectures and practical exercises in the operation, maintenance, and repair of specialized missile ground and airborne equipment, including operation of missile pneumatic and hydraulic AGE and installed systems and components, security procedures, hydraulic pumping unit flow diagram and electrical control circuit, and testing and inspection of the airborne hydraulic subsystem and nitrogen charge panel.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0113
MISSILE PNEUMATIC REPAIRMAN (HGM-25A)
(MISSILE PNEUMATIC REPAIRMAN (SM-68A))
Course Number: ABR44230E.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240 hours).
Exhibit Dates: 1/62-12/68.
Objectives: To train airman to repair missile pneumatic and hydraulic devices.
Instruction: Lectures and practical exercises in the troubleshooting and repair of specialized guided missile pneumatic and hydraulic devices, including auxiliary hydraulic pumping unit system operation and description, test set operation, fluid contamination specifications and equipment, port hydraulic system, and power unit, subsystems, electrical system, and troubleshooting of the missile launcher and liftgate elevating and protecting set.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0114
AIRCRAFT ELECTRICAL REPAIRMAN
(AIRCRAFT AND MISSILE ELECTRICAL REPAIRMAN)
Course Number: 3ABR42330.
Location: Chanute AFB, IL.
Length: 16-19 weeks (480-540 hours).
Exhibit Dates: 10/54-12/73.
Objectives: To train airmen to inspect, install, repair, and modify aircraft and missile electrical systems, components, and associated test equipment.
Instruction: Lectures and practical exercises in the inspection, installation, repair, and modification of aircraft and missile electrical systems, components and associated test equipment, including basic mechanics and electricity, electronics principles (with brief treatment of solid-state devices), DC power and motor systems, AC power systems, control and warning systems, missile familiarization, maintenance practices, and use and maintenance of test equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (12/68).
AF-1704-0115

ADVANCED OBSERVER AIRCRAFT PERFORMANCE ENGINEER

Course Number: 432104.
Location: Training Command, Mather AFB, CA.
Length: 36 weeks (967 hours).
Exhibit Dates: 6/56-12/68.

Objectives: To train graduates of the primary-basic observer courses as aircraft performance engineers.

Instruction: Lectures and practical exercises on the duties of advanced observers and aircraft performance engineers, including administrative publications, technical orders and aircraft inspections; aircraft structures and ground handling equipment, instruments and electrical power distribution, engines and fuel systems; propeller, engine performance and engine analyzer, engine conditioning and jet engines; hydraulic systems; slide rule; weight and balance; basic physics and aerodynamics; and flight analysis and mission prediction.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in engineering technology (6/74); in the upper-division baccalaureate category, credit in aeronautical engineering on the basis of institutional evaluation (12/68).

AF-1704-0116

BASIC OBSERVER AIRCRAFT PERFORMANCE ENGINEER TRAINING

Course Number: 432101(2).
Location: Training Command, Mather AFB, TX.
Length: 28 weeks (844 hours).
Exhibit Dates: 2/54-5/56.

Objectives: To train graduates of the primary observer course to perform as aircraft observers and aircraft performance engineers.

Instruction: Lectures and practical exercises in the functions of basic observers and aircraft performance engineers, including administration and aircraft general familiarization, performance fundamentals, engines and associated systems, aircraft systems, performance curves, performance problems and operations, air inductors, and aircraft engines.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 7 semester hours in aviation administration (6/68).

AF-1704-0117

HELICOPTER MECHANIC, CH/HH-3
(HELICOPTER MECHANIC, CH, 3C)

Course Number: 3AZR4170-3.
AZR4170-3.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 10/65-12/73.

Objectives: To train maintenance personnel in CH/HH-3 helicopter maintenance, including organizational maintenance on the T-58 engine.

Instruction: Lectures and practical exercises in the maintenance of the CH/HH-3 helicopter, including organizational maintenance on the T-58 engine.

AF-1704-0118

KC-135 AIRCRAFT HYDRAULIC REPAIRMAN
(KC-135 AIRCRAFT REPAIRMAN, HYDRAULIC)

Course Number: ATS42152-18; SS42152-18.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 4/58-12/68.

Objectives: To train selected hydraulic repairmen to maintain the KC-135 aircraft hydraulic system.

Instruction: Lectures and practical exercises on the repair and maintenance of the KC-135 aircraft hydraulic system. Course includes identification, location, function, servicing, replacement, inspection, and adjustment of hydraulic systems and components, troubleshooting, engine change and inspection, and preparation of engines for storage.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft organizational maintenance (6/74).

AF-1704-0119

MB-5 AUTOPILOT REPAIRMAN, F-101B

Course Number: ATS42353-2.
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 8/58-12/68.

Objectives: To train autopilot and compass systems repairmen to maintain the F-101B automatic flight control systems.

Instruction: Lectures and practical exercises in the repair and maintenance of the F-101B automatic flight control systems. Course includes aircraft familiarization; function and arrangement of damper, autopilot, compass, and integrated limited systems and components; integrated coupled, system operational modes; inspection and maintenance, including check-out and testing, troubleshooting, adjusting, calibrating, removal and installation; and use of associated test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft hydraulic systems maintenance (6/74).

AF-1704-0120

HELIPOWER MAINTENANCE OFFICER

Course Number: OTS4344.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 2/59-12/68.

Objectives: To train commissioned officers to maintain helicopters.

Instruction: Lectures and practical exercises in the theory and practical of helicopter maintenance. Course includes training history and development of helicopters and helicopter aerodynamics; construction and service requirements of single-and dual-rotor helicopter components such as transmissions, controls, engines, and special systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance laboratory (6/74).

AF-1704-0121

KC-135 IN-FLIGHT REFUELING SPECIALIST

Course Number: SS43350-3.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 4/58-12/68.

Objectives: To train maintenance and instructor personnel to maintain the KC-135 aircraft in-flight refueling system.

Instruction: Lectures and practical exercises in the maintenance of the KC-135 aircraft in-flight refueling system. Course includes operation; inspection, troubleshooting, and repair of the KC-135 in-flight refueling system.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0122

KC-135 AIRCRAFT MECHANIC

Course Number: SS43151-E-I2.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 7 weeks (210 hours).
Exhibit Dates: 4/58-12/68.

Objectives: To train maintenance personnel in the mechanics and maintenance of the KC-135 aircraft.

Instruction: Lectures and practical exercises in the mechanics and maintenance of the KC-135 aircraft. Topics include systems familiarization, inspection and repair, accessories, and associated equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft mechanic shop (6/74).

AF-1704-0123

AIRCRAFT MECHANIC, F-102A

Course Number: SS43151C-11.
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 4/58-12/68.

Objectives: To train enlisted personnel in the mechanics of the F-102A aircraft.

Instruction: Lectures and practical exercises in the mechanics and operation of the F-102A aircraft. Topics include F-102A systems familiarization; location, operation, servicing, troubleshooting, adjustment, and replacement of airframe and system components; and use and operator maintenance of ground powered support and handling equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft mechanic shop (6/74).
AF-1704-0124
AFRPLT HYDRAULIC REPAIRMAI, F-102A
Course Number: SS42152-16
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/30-12/68.
Objectives: To train enlisted personnel to maintain the F-102A hydraulic system.

Instruction: Lectures and practical exercises in the maintenance of the F-102A hydraulic system. Topics include instruction in hydraulic power system component location, function, troubleshooting, servicing, repair, replacement, repair and adjustment, seat and canopy, electrical power, armament, landing gear, wheel brake, nose wheel steering, deceleration, and flight control systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft hydraulics (6/74).

AF-1704-0125
KC-135 AIRCRAFT ELECTRICAL REPAIRMAN (AIRCRAFT ELECTRICAL REPAIRMAN, KC-135)
Course Number: AT842330-42, 542
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 4/58-12/68.
Objectives: To train maintenance and instructor personnel to maintain KC-135 electrical systems.

Instruction: Lectures and practical exercises in the maintenance of KC-135 aircraft electrical systems. Topics include instruction in aircraft general familiarization, identification and location of electrical systems and components, and functional operating principles, troubleshooting, servicing, minor repair, adjustment, inspection, and maintenance of AC/DC power generating and distribution systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft electrical systems (6/74).

AF-1704-0126
GUIDANCE SYSTEM TECHNICIAN (SM-68)
Course Number: AT831170P-2
Location: 375th Technical School, Sheppard AFB, TX.
Length: 32 weeks (960 hours).
Exhibit Dates: 6/61-12/68.
Objectives: To train advanced maintenance technicians to maintain and repair rocket guidance systems.

Instruction: Lectures and practical exercises in the maintenance and repair of rocket guidance systems. Course includes functional description, operating procedures, operational checkout, simplified troubleshooting, removal and replacement, alignment procedures, data flow loop theory, inspections, chassis repair, and test pack operation and maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems maintenance management (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical systems maintenance management (6/74).

AF-1704-0127
HAMPTON STANDARD PROPPELLER, C-119 INSTALLATION
Course Number: SS42151-7
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 4/58-12/68.
Objectives: To train aircraft propel! repairmen to maintain the Hampton standard propeller model 24260.

Instruction: Lectures and practical exercises in the maintenance of the Hampton standard propeller model 24260. Course includes instruction in model 24260 propeller assembly, control system construction and operation fundamentals, and disassembly, inspection, assembly and test procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft propellers (6/74).

AF-1704-0128
AIRCRAFT ELECTRICAL REPAIRMAN, F-102A
Course Number: SS42350-39
Location: 3320th Technical School, Amarillo AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train enlisted personnel to perform field and organizational maintenance on the F-102A electrical power unit.

Instruction: Lectures and practical exercises in the repair and maintenance of the F-102A electrical power and distribution system and the electrical subsystem.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in aircraft electrical systems (6/74).

AF-1704-0129
AFRPLT REPAIR SPECIALIST (AFRFLT REPAIRMAN)
Course Number: 3ABR53430-1
ABR53430; AB53430
Location: Version I: School of Applied Aerospace Sciences, Chanute AFB, IL.
Version 2: 3345th Technical School, Chanute AFB, IL.
Version 3: 3320th Technical School, Amarillo AFB, TX.
Length: 15-18 weeks (450-550 hours).
Exhibit Dates: 9/54-12/73.
Objectives: To train aircraft technicians to perform general, light structural, and heavy structural repairs on airframes.

Instruction: Lectures and practical exercises in maintenance and repair principles, procedures and techniques, layout of repairs, metal cutting and forming equipment operation, riveting and riveting equipment, composite and fiberglass structures repair, bonded honeycomb structures repair, cable fabrication, dimpling, special tools operation, and safety practices.

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

AF-1704-0130
JET ENGINE MECHANIC, T-58
Course Number: 3AZR43270-5; AZR43270-5
Location: 375th Technical School, Sheppard AFB, TX.
Length: 3-4 weeks (90-108 hours).
Exhibit Dates: 10/65-12/73.
Objectives: To train maintenance personnel to perform limited field maintenance on the T-58 gas turbine engine, and organizational maintenance on the T62T-1B auxiliary power unit.

Instruction: Lectures and practical exercises in the maintenance of the jet T-58 gas turbine engine. Course includes safety factors, system components, theory of operation, and removal and replacement of engine accessories.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in jet engine maintenance (6/74).

AF-1704-0131
MISSILE ENGINE MECHANIC
Course Number: AL43233
Location: 3345th Technical School, Chanute AFB, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 4/58-12/68.
Objectives: To train enlisted personnel as missile engine mechanics.

Instruction: Lectures and practical exercises in the mechanics of missile engines. Course includes properties of solids and fluids, physics of propellants, protective clothing, fuels, oxidizers, propellant storage and auxiliary power supplies.

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

AF-1704-0132
MISSILE ENGINE MECHANIC, IM-99
Course Number: AT843351-5
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/59-12/68.
Objectives: To train enlisted personnel as missile engine mechanics.

Instruction: Lectures and practical exercises in the maintenance and basic operating principles of the IM-99 missile engine. Course includes missile familiarization, basic physics, mechanics, handling of uncommon liquid propellants, protective equipment and devices, rocket engine operation, and safety procedures and first aid.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in missile engine technology (6/74).
AF-1704-0135
MISSILE ENGINE MECHANIC (SM-65E/F)
Course Number: ABR44331-A 2
Location: 3345th Technical School, Chanute AFB, IL
Length: 6 weeks (180 hours)
Exhibit Dates: 1/16-1/26/68
Objectives: To train enlisted personnel to perform apprentice level maintenance on the MA-3 propulsion system and related aircraft ground equipment.
Instruction: Lectures and practical exercises in the duties of missile engine mechanics. Course includes missile engine systems, and rocket removal, repair, and maintenance of the system test stand, with all necessary safety precautions.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in missile engine technology (6/74).

AF-1704-0136
MISSILE ENGINE MECHANIC (HGM-25A)
Course Number: ABR44331-E 1
Location: 3750th Technical School, Sheppard AFB, TX
Length: 8-10 weeks (240-300 hours)
Exhibit Dates: 2/6-2/6/68
Objectives: To train personnel as missile engine mechanics.
Instruction: Lectures and practical exercises in the duties of missile engine mechanics. Course includes instruction in weapon system familiarization, handling, maintenance, inspection, check-out, and field maintenance.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in missile engine technology (6/74).

AF-1704-0138
MISSILE ENGINE MECHANIC/TECHNICIAN, SM-65B
Course Number: ATS44351-6
Location: 3750th Technical School, Sheppard AFB, TX
Length: 12 weeks (360 hours)
Exhibit Dates: 7/61-12/68
Objectives: To train enlisted personnel to perform the duties of a missile engine mechanic.
Instruction: Lectures and practical exercises in the duties of a missile engine mechanic. Course includes instruction in weapon system familiarization, handling, maintenance, and check-out, missile propulsion system, and stage I & II rocket engine familiarization.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in missile engine technology (6/74).

AF-1704-0142
IN-FLIGHT REFUELING SPECIALIST
Course Number: ABR42432
Location: 3750th Technical School, Sheppard AFB, TX
Length: 12 weeks (330 hours)
Exhibit Dates: 4/6-12/68
Objectives: To train enlisted personnel as apprentice in-flight refueling specialists.
Instruction: Lectures and practical exercises in the duties of an in-flight refueling specialist. Course includes instruction in weapon system familiarization and hydraulic systems; operation of the hose reel and boom systems; operational, procedural, and inspection of the KC-135 system; principles of weight, balance, and cargo loading; and principles of celestial navigation and block measurements.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electrical and hydraulic systems, 1 in aircraft weight and balance (6/74).

AF-1704-0143
A/E24U-8 POWER PLANT INTERMEDIATE AND ORGANIZATIONAL (1 & O) MAINTENANCE
Course Number: 3ABR42153-1
Location: School of Applied Aerospace Science, Chanute AFB, IL
Length: 5-6 weeks (168-208 hours)
Exhibit Dates: 3/72-12/73
COURSE EXHIBITS

AF-1704-0144
MAINTENANCE OF A/S 48A-1 WHEEL MECHANIC

Course Number: ATS47152-51
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 10/61-1/62.
Objectives: To train enlisted personnel to maintain the A/S 48A-1 wheel me chanic. Course includes lectures on the operation and maintenance of the A/S 48A-1 wheel mover. Credit Requirement: No credit because of the limited specialized nature of the course (7/74).

AF-1704-0145
AIRCRAFT LIFE SUPPORT EQUIPMENT

Course Number: 3A9R92250-4, 2A9R92250-4
Location: School of Applied Aerospace Sciences, Chanute AFB, IL: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120-146 hours).
Exhibit Dates: 2/73-12/73.
Objectives: To train enlisted personnel to operate and maintain aircraft life support equipment, including protective and survival equipment. Credit Requirement: No credit because of the limited specialized nature of the course (7/74).

AF-1704-0146
MISSILE AND FACILITY PNEUMATIC TECHNICIAN (SM-65F)

Course Number: ATS44270A-1; ATS42152-34
Location: 3345th Technical School, Sheppard AFB, TX.
Length: 12-15 weeks (360-450 hours).
Exhibit Dates: 5/61-12/68.
Objectives: To train personnel to perform as missile and facility pneumatic technicians (SM-65F). Instruction: Lectures and practical exercises in the operation and maintenance of pneumatic systems and related AGE, check-out of pneumatic systems, and PU systems and faci lity pneumatic systems. Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in pneumatic systems and 3 in Pneumatic Sciences; 1 semester hour in gas turbine engines and Pneumatic Sciences; 1 semester hour in gas turbine engines; 4 in electronics laboratory (7/74).

AF-1704-0147
MISSILE AND FACILITY PNEUMATIC TECHNICIAN (SM-67F)

Course Number: ATS44270A-2
Location: 3345th Technical School, Chanute AFB, IL.
Length: 9 weeks (270 hours).
Objectives: To train selected enlisted personnel to maintain IM-99B missiles. Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in mechanical maintenance (7/74).

AF-1704-0148
AVIONICS OFFICER (AGM-25A) (ARMAMENT SYSTEMS OFFICER (AGM-77))

Course Number: OZR3231B-2, OTS3234B-4
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (108-120 hours).
Exhibit Dates: 5/61-12/62.
Objectives: Lectures and practical exercises in the operation and maintenance of IM-99B missile systems. Credit Recommendation: No credit because of the limited specialized nature of the course (6/74).

AF-1704-0149
MISSILE MECHANIC/MAINTENANCE TECHNICIAN (SM-99B)

Course Number: ATS443501-2
Location: 3345th Technical School, Chanute AFB, IL.
Length: 9 weeks (270 hours).
Objectives: To train selected enlisted personnel to operate and maintain IM-99B missiles. Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical systems laboratory (6/74).

AF-1704-0150
MISSILE MECHANIC (TACTICAL) (TM-76A/B)
(MISSILE MECHANIC (TM-76A/B))
(MISSILE SPECIALIST (TM-76))
(MISSILE MECHANIC (TM-76A))

Course Number: ABR44330L
Location: 3415th Technical School, Lowry AFB, CO.
Length: 17-24 weeks (480-630 hours).
Exhibit Dates: 10/58-9/62.
Objectives: To train airmen to maintain and repair TM-76A/B Mace missiles. Credit Requirement: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in vocational pr technical programs (7/74).

AF-1704-0151
MISSILE MECHANIC/MAINTENANCE TECHNICIAN, SM-68B

Course Number: ATS44350E-3
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 1/62-12/68.
Objectives: To train selected mechanics to maintain and operate a missile installation (SM-68B). Credit Requirement: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in mechanical maintenance (7/74).

AF-1704-0152
MISSILE FACILITIES TECHNICIAN, SM-80

Course Number: ATS44700G-1
Location: 3345th Technical School, Chanute AFB, IL.
Length: 9 weeks (270 hours).
Exhibit Dates: 7/62-12/68.
Objectives: To train selected enlisted personnel to operate and maintain SM-80 missile systems. Credit Requirement: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in mechanical maintenance (7/74).
AF-1704-0153
MISSILE TECHNICIAN (GAM-77)
Course Number: AT44370-3
Location: 3345th Technical School, Chanute AFB, IL
Length: 4-6 weeks (120-180 hours)
Exhibit Dates: 2/61-12/68
Objectives: To train enlisted personnel to operate, maintain, and inspect the GAM-77 missile.
Instruction: Lectures and practical exercises in the operation, maintenance, and inspection of the GAM-77 missile, including missile and ground support equipment, missile assembly, transportation, handling, removal, and replacement of missiles and pylons on the B-52; and inspection of engines, fuel, electrical, hydraulic, pressurization, temperature control, and pilot systems.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in technical or vocational programs (7/74).

AF-1704-0154
MISSILE MECHANIC, GAM-72
Course Number: AT44350-5
Location: 3345th Technical School, Amarillo AFB, TX
Length: 6 weeks (180 hours)
Exhibit Dates: 9/60-12/68
Objectives: To train selected enlisted personnel to maintain and operate GAM-72 missile installations.
Instruction: Lectures and practical exercises in maintenance and operation of GAM-72 missile installations. Course includes installation, removal, and servicing of engines; electrical circuits and components; tests of the flight control system; and removal, installation, and adjustment of launch controls.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in mechanical maintenance (7/74).

AF-1704-0155
MISSILE MECHANIC (HGM-25A), (MISSILE MECHANIC (SM-65A))
Course Number: ABR44330-1
Location: 3750th Technical School, Sheppard AFB, TX
Length: 8-10 weeks (240-300 hours)
Exhibit Dates: 1/62-12/68
Objectives: To train airmen as SM-65 and Titan I maintenance supervisors.
Instruction: Lectures and practical exercises in the duties of missile mechanics and Titan I maintenance supervisors, including missile handling, transportation, installation, and removal; inspection of missile systems and associated equipment in the silo and propellant terminal; pressurization systems; communications system; launch complex systems; fuel system; propulsion, electrical, flight control, and hydraulic systems; and components of the launcher system.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in technical or vocational programs (7/74).

AF-1704-0156
FUNDAMENTALS OF MISSILE ENGINE MAINTENANCE
Course Number: AQR44321, ABR44321
Location: 3345th Technical School, Chanute AFB, IL
Length: 10 weeks (270 hours)
Exhibit Dates: 8/61-12/68
Objectives: To train airmen to inspect and maintain missile engines in preparation for entry into SM-65 and SM-46 missile engine mechanics courses.
Instruction: Lectures and practical exercises in the inspection and maintenance of missile engines, including elements of physics, principles of hydraulics, rocket engine theory and subsystems, aerospace ground equipment, electrical principles, propellants, hydraulic pumping unit, and test equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical maintenance (7/74).

AF-1704-0157
MISSILE MECHANIC (PGM-16E AND PGM-16F)
MISSILE MECHANIC (SM-65E/F)
Course Number: ABR44330-A-2
Location: 3750th Technical School, Sheppard AFB, TX
Length: 12 weeks (300-360 hours)
Exhibit Dates: 8/62-12/68
Objectives: To train airmen as missile mechanics for PGM-16E and HGM-16F missiles.
Instruction: Lectures and practical exercises in the duties of missile mechanics for PGM-16E and HGM-16F missiles, including airframe maintenance, missile handling, propulsion systems, launching and erection systems, emplacement, propellants, missile transportation, flight control and guidance systems, and aerospace ground equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in mechanical maintenance (7/74).

AF-1704-0158
AIRCRAFT ELECTRICIAN GUNNER, B-36
Course Number: ZZ42331
Location: 3415th Technical School, Lowry AFB, CO
Length: 8 weeks (240 hours)
Exhibit Dates: 4/56-12/68
Objectives: To train enlisted personnel as aerial gunners for the B-36 type aircraft.
Instruction: Lectures and practical exercises in the principles, procedures, and techniques of aerial gunnery, including 20mm automatic guns, associated equipment, gun chargers, 20mm feed mechanisms and boosters, dynamic mounts and GE assist-feed winders, 20mm ammunition, proflight and related flight procedures, interphone procedures, emergency procedures, and malfunction procedures.
Credit Recommendation: Not credit because of the military nature of the course (7/74).

AF-1704-0159
MISSILE GROUND SUPPORT EQUIPMENT REPAIR TECHNICIAN/REPAIRMAN (SM-65F)
Course Number: ATS42153-5
Location: 3850th Technical School, Sheppard AFB, TX
Length: 20 weeks (600 hours)
Exhibit Dates: 6/61-12/68
Objectives: To train enlisted personnel to operate, inspect, maintain, and repair SM-65 missile ground support equipment.
Instruction: Lectures and practical exercises in the operation, inspection, maintenance, and repair of SM-65 missile ground support equipment, including launch installation, heating, ventilation, air conditioning system, power distribution system, pneumatic and hydraulic systems, fluid storage facilities, missile lift and suspension systems, and the propellant transfer system.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in vocational or technical programs (7/74).

AF-1704-0160
MISSILE MAINTENANCE TECHNICIAN, SM-62
Course Number: AT44370-1
Location: 3320th Technical School, Amarillo AFB, TX
Length: 9 weeks (270 hours)
Exhibit Dates: 3/59-12/68
Objectives: To train airmen to operate and maintain SM-62 missile systems.
Instruction: Lectures and practical exercises in the operation and maintenance of SM-62 weapon systems, including inspection, removal, and replacement of airframe assemblies, troubleshooting and inspection of fuel, electrical, hydraulic, air-conditioning and pressurizing, and engine systems; use and operation of engine-start and launch and performance consoles, maintenance of launch support equipment; flight control and power plant; and preoperational procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in vocational programs (7/74).

AF-1704-0161
PNEUMATIC REPAIRMAN (HH-53)
Course Number: 3AZ742172-0
Location: 3750th Technical School, Sheppard AFB, TX
Length: 2 weeks (60 hours)
Exhibit Dates: 3/72-12/73
Objectives: To train enlisted personnel to maintain HH-53 helicopter pneumatic systems at the intermediate level.
Instruction: Lectures and practical exercises in the maintenance of HH-53 helicopter pneumatic systems, including aerodynamics, utility system, pressure supply system, landing gear and power brakes, ramp and door system, engine start system, flight control system, rotor brake power section, rotor head damping system, and troubleshooting and operating procedures for the pneumatic system components.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in pneumatic and hydraulic systems (7/74).
ROCKET PROPULSION TECHNICIAN (INTERIM)

AF-1704-0163

COURSE EXHIBITS

AF-1704-0166

AIRCRAFT ELECTRICAL REPAIRMAN, F-104

Course Number: SS42350-40
Location: 3345th Technical School, Chanute AFB, IL
Length: 4 weeks (120 hours)
Exhibit Dates: 4/58-12/68
Objectives: To train maintenance personnel to maintain the electrical system of the F-104 aircraft.

Instruction: Lectures and practical exercises in the maintenance of the electrical system in the F-104 aircraft. Course includes troubleshooting procedures, electrical components, lubrication of parts, and inspection techniques.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0167

AIRCRAFT ELECTRICAL REPAIRMAN, B-52H

(AF. ELECTRICAL REPAIRMAN, B-52)

Course Number: AT582350-59; SS2350-11
Location: 3345th Technical School, Chanute AFB, IL
Length: 8-10 weeks (240-300 hours)
Exhibit Dates: 5/63-12/68
Objectives: To train maintenance personnel to maintain the B-52 aircraft.

Instruction: Lectures and practical exercises in the maintenance of the B-52 aircraft, including AC and DC components, landing gear, anti-icing control, temperature regulating control, lighting controls, engine fuel control, hydraulics, flight control system, electrical system, and troubleshooting procedures.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1704-0168

INSTRUMENT TRAINER INSTRUCTOR—OPERATOR

(AF. ELECTRICAL REPAIRMAN, B-52)

Course Number: AT582351; SS2351
Location: 334, Chanute AFB, IL
Length: 8-10 weeks (240-360 hours)
Exhibit Dates: 5/58-12/68
Objectives: To train Strategic Air Command enlisted personnel to perform as instrument trainers (procedures).

Instruction: Lectures and practical exercises in the duties of an instrument trainer instructor-operator. Course includes air traffic control, weather, dead-reckoning computer, radio telephone procedures, navigational aids, and instrument landing system.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-1704-0173
1. MISSILE PNEUMATIC REPAIRMAN 
   (LGM-25)
2. MISSILE PNEUMATIC REPAIRMAN 
   (LGM-23C)
3. MISSILE PNEUMATIC REPAIRMAN 
   (SM-68/311)

Course Number: Version 1: 3ABR4230-1; 
Version 2: 3ABR4230-1: ABR4230F-1: Version 3: 
Location: 375th Technical School, 
Sheppard AFB, TX.

Length: Version 1: 13-14 weeks (408 
hours). Version 2: 18 weeks (510 hours). 
Version 3: 7-8 weeks (210-240 hours).

Exhibit Dates: Version 1: 4/71-12/73. 

Objectives: To train airmen as missile 
pneumatic repairmen for specific missiles.

Instruction: All Versions: Lectures and 
practical exercises on the duties of missile 
pneumatic repairmen. Version 2: Topics 
include principles of mechanics and 
electricity, weapon system familiarization 
and facility systems, maintenance 
system, facility system components, 
hydraulic testing equipment, and fluid 
analysis. Version 3: Topics include 
hydraulic systems and test stands, and missile 
hydraulic system. Version 4: Topics 
include principles of mechanics and 
electricity, weapon system familiarization 
and facility systems, maintenance 
system, facility system components, 
hydraulic testing equipment, and fluid 
analysis.

Credit Recommendation: Version 1: See 
explanatory note at the beginning of the 
Air Force section. Version 2: See explanatory 
note at the beginning of the Air Force 
section.

AF-1704-0175
KC-135 FUEL SYSTEM REPAIRMAN AND WET WING SEALING

Course Number: ATS43155-2.
Location: 3345th Technical School, 
Channing AFB, TX.

Length: Version 1: 13 weeks (330 hours). 
Version 2: 12 weeks (280 hours). 
Version 3: 10 weeks (250 hours).

Exhibit Dates: Version 1: 4/71-12/73. 

Objectives: To train airmen as fuel 
repairmen for KC-135 aircraft.

Instruction: All Versions: Lectures and 
practical exercises in the operation and 
use of the KC-135 aircraft.

Credit Recommendation: Version 1: See 
explanatory note at the beginning of the 
Air Force section. Version 2: See explanatory 
note at the beginning of the Air Force 
section.

AF-1704-0176
M37-T1 TEST STAND, MAINTENANCE AND CALIBRATION

Course Number: ATS42153-54.
Location: 3345th Technical School, 
Channing AFB, TX.

Length: 3 weeks (90 hours).

Exhibit Dates: 6/61-12/68.

Objectives: To train airmen as aircraft 
repairmen for M37-T1 aircraft.

Instruction: Lectures and practical 
exercises in the operation and use of the 
M37-T1 aircraft.

Credit Recommendation: See explanatory 
note at the beginning of the Air Force 
section.

AF-1704-0177
MISSILE HYDRAULIC REPAIRMAN/ 
TECHNICIAN (SM-68)

Course Number: ATS42152-30.
Location: 375th Technical School, 
Sheppard AFB, TX.

Length: 8 weeks (240 hours).

Exhibit Dates: 1/61-12/68.

Objectives: To train airmen as 
missile hydraulic repairmen.

Instruction: Lectures and practical 
exercises in missile hydraulic systems.

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

AF-1704-0178
MECHANICAL ACCESORIES AND EQUIPMENT 
REPAIRMAN, B-52

Course Number: ATS42251-5; SS42251- 
Location: 3345th Technical School, 
Channing AFB, TX.

Length: 3 weeks (90 hours).

Exhibit Dates: 7/58-12/68.

Objectives: To train airmen as 
mechanical accessories and equipment 
repairmen for B-52 aircraft.

Instruction: Lectures and practical 
exercises in the maintenance and 
operation of B-52 aircraft.

Credit Recommendation: In the lower- 
division baccalaureate/associate degree 
category, 2 semester hours in 
mechanical accessories and equipment 
repairmen.

AF-1704-0179
WEAPONS MAINTENANCE TECHNICIAN FB- 

Location: 34th Technical School, 
Lowry AFB, CO.

Length: 3 weeks (90 hours).

Exhibit Dates: 1/70-12/73.

Objectives: To train airmen as weapons 
mechanics for conventional and nuclear 
aircraft.

Instruction: Lectures and practical 
exercises in the maintenance and 
operation of weapons systems.

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

AF-1704-0180
F-4 AIRCREW LIFE SUPPORT SPECIALIST 
(F-4 PROTECTIVE EQUIPMENT SPECIALIST)

Course Number: 3AZR92250.
Location: 3345th Technical School, 
Channing AFB, TX.

Length: 3 weeks (72 hours).

Exhibit Dates: 8/72-12/73.

Objectives: To train airmen as 
aircrew life support specialists.

Instruction: Lectures and practical 
exercises in the operation and use of the 
Martin-Baker ejection seat; survival seat kit 
assemblies; oxygen components; parachute 
harness; hook-up of crew members to 
seat kit; lowering devices; and safety.

Credit Recommendation: No credit 
because of the limited specialized nature of 
the course (7/74).
AF-1704-0182
COURSE EXHIBITS

AIRCREW LIFE SUPPORT SPECIALIST
(PERSONNEL PRIVATE EQUIPMENT SPECIALIST
(Personnel Protective Equipment Specialist)
(GENERAL)
(SURVIVAL TRAINING AND PERSONNEL SURVIVAL EQUIPMENT SPECIIIST)
Course Number: 3ABR2253, ABR92230, ABR92230A, ABR2230.
Location: School of Personnel Protective Design Sciences, Chanute AFB, IL.
Length: 2 weeks (72 hours).
Exhibit Dates: 8/68-12/73.
Objectives: To train personnel in the proper use and operation of survival equipment associated with aircraft.
Instructor: Lectures and practical exercises in the proper use of survival equipment associated with aircraft.
Credit Recommendation: No credit because of the limited specialized nature of the course (12/73).

AF-1704-0183
PERSONNEL AND SURVIVAL EQUIPMENT TRAINING (ENLISTED)
(PERSONNEL AND SURVIVAL EQUIPMENT TRAINING (ENLISTED))
Course Number: AAT82250, AT892250.
Location: 345th Technical School, Chanute AFB, IL.
Length: 1 week (120 hours).
Exhibit Dates: 7/58-12/68.
Objectives: To train Air Force enlisted personnel in the operation, use, inspection, and maintenance of personal survival and combatant equipment.
Instruction: Lectures and practical exercises in the maintenance and inspection of life rafts, anti-exposure suits, personal protective clothing, emergency equipment, and emergency equipment and radio equipment and training in first aid and methods of instruction.
Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

AF-1704-0184
F-4 PROTECTIVE EQUIPMENT TECHNICIAN
Course Number: 3AZR2253.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 2 weeks (72 hours).
Exhibit Dates: 8/68-12/73.
Objectives: To train personnel in the proper use of aircrew protective equipment with aircraft.
Instruction: Lectures and practical exercises in the proper use of protective equipment with aircraft.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in aeronautical technology (5/74).

AF-1704-0185
NAVIGATOR BOMBERDIER (ASO-48)
(NAVIGATOR BOMBERDIER (AN/ASO-48))
Location: School of Applied Aerodynamics, Chanute AFB, IL.
Length: 2 weeks (48 hours).
Exhibit Dates: 7/58-12/68.
Objectives: To train enlisted personnel to fly as pilots in the Air Force section of the Air Force.
Instruction: Lectures and practical exercises in the proper use of life rafts, maintenance of survival kits, life rafts, protective clothing, and emergency communication equipment.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1709-0001
1. PRECISION PHOTOGRAPHIC PROCESSING TECHNICIAN
2. PRECISION PHOTOGRAPHIC PROCESSING TECHNICIAN
3. PRECISION PHOTOGRAPHIC PROCESSING TECHNICIAN
4. PRECISION PHOTOGRAPHIC PROCESSING TECHNICIAN
Location: 341st Technical Training Center, Lowery AFB, CO.
Length: 8 weeks (228 hours).
Exhibit Dates: 8/68/73.
Objectives: To train enlisted personnel in the proper use and operation of survival equipment associated with aircraft.
Instruction: Lectures and practical exercises in the maintenance and inspection of life rafts, anti-exposure suits, personal protective clothing, emergency equipment, and emergency equipment and radio equipment and training in first aid and methods of instruction.
Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

AF-1709-0002
COMBAT STILLS PHOTOGRAPHER, OPERATOR
Course Number: 2ASR23651-003.
Location: 341st Technical Training Group, Lowery AFB, CO.
Length: 2 weeks (570 hours).
Exhibit Dates: Version 1: 7/5/72-12/73.
Objectives: To train enlisted personnel to install, inspect, and operate aircraft cameras and related equipment.
Instruction: Lectures and practical exercises in the fundamentals of photography, photographic exposures, laboratory processing and printing, aerial film processing, and production processing and printing, journalistic applications to photography, and the identification of weapon systems, industries, and other items of interest to the military.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in photography (12/73).

AF-1709-0003
PHOTOGRAPHIC INTERPRETATION
Course Number: 3AZR23651.
Location: 341st Technical Training Group, Lowery AFB, CO.
Length: 8 weeks (228 hours).
Exhibit Dates: 7/5/72-12/73.
Objectives: To train airmen in basic photographic interpretation.
Instruction: Lectures and practical exercises in the fundamentals of photographic interpretation, and the identification of weapon systems, industries, and other items of interest to the military.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1709-0004
STILL PHOTOJOURNALISM
(STILL PHOTOJOURNALISM)
Course Number: 3AZR23651.
Location: 341st Technical Training Group, Lowery AFB, CO.
Length: 6 weeks (180 hours).
Exhibit Dates: 7/5/72-12/73.
Objectives: To train enlisted personnel to work as still photojournalists with information offices.
Instruction: Lectures and practical exercises in the journalistic process, including information acquisition techniques, elements of style, and legal and ethical considerations of photography, including processing systems, including camera function, processing, composition, and practical exercises, a job-oriented workshop including picture stories, personality features, small group reporting, and a final project.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in photojournalism (12/73); in the upper-division baccalaureate category, 3 semester hours in photojournalism (12/73).

AF-1709-0005
AERIAL PHOTOGRAPHER
Course Number: 2ASR23651.
Location: 341st Technical Training Group, Lowery AFB, CO.
Length: Version 1: 12 weeks (360 hours), Version 2: 18 weeks (540 hours).
Objectives: To train enlisted personnel to install, inspect, and operate aircraft cameras and related equipment.
Instruction: Lectures and practical exercises in the fundamentals of photography, aerial film processing, and production processing and printing, journalistic applications to photography, and the identification of weapon systems, industries, and other items of interest to the military.
Credit Recommendation: Version 1: In the upper-division baccalaureate category, 3 semester hours in photography (12/73).

AF-1709-0006

**PRECISION PHOTOGRAPHIC SERVICES**

**Course Number:** V1 901B2331, Version 2: OBR2331.

**Location:** 3415th Technical School, Lowry AFB, CO.

**Length:** Version 1: 18 weeks (540 hours). Version 2: 21 weeks (630 hours).

**Exhibit Dates:** Version 1: 5/68-12/73.

**Version 2:** 5/67-68.

**Objectives:** To train officers to supervise precision photographic services laboratories.

**Instruction:** Lectures and practical experience in statistics, photograph chemistry, laboratory functions, image reproduction and evaluation, precision photographic processing, and management of photographic installations.

**Credit Recommendation:** See explanatory note at the beginning of the Air Force section.

AF-1709-0009

**COLOR PHOTO PROCESSES**

**Course Number:** AZR23374; AZR23270.

**Location:** 3415th Technical School, Lowry AFB, CO.

**Length:** 8-9 weeks (240-270 hours).

**Exhibit Dates:** 1/62-Present.

**Objectives:** To train enlisted personnel in the technical skills required to produce color prints, slides, and other photographicals.

**Instruction:** Lectures and practical experience in the principles of color photography, and in the principles, and use of color photographic materials, exposure and processing of reversal and negative color films, the use of color, black and white, and color copy, color printing, and quality control.

**Credit Recommendation:** See explanatory note at the beginning of the Air Force section.

AF-1709-0010

1. STILL PHOTOGRAPHER (PHOTOGRAPHER)

   **Course Number:** Version 1: ABR23230. Version 2: AB232370, AB232390.

   **Location:** 3415th Technical School, Lowry AFB, CO.

   **Length:** Version 1: 18 weeks, (510 hours). Version 2: 14 weeks (390 hours).


   **Objectives:** To train personnel to perform as photographers.

   **Instruction:** Lectures and practical experiences in the operation and care of cameras and laboratory equipment, and in exposing and processing black and white and color film.

   **Credit Recommendation:** See explanatory note at the beginning of the Air Force section.

AF-1709-0011

**FILM CUTTING SPECIALIST (SOUND AND PICTURE EDITING SPECIALIST)**

**Course Number:** AB23331.

**Location:** 3415th Technical Training Group, Lowry AFB, CO.

**Length:** 8 weeks (240 hours).

**Exhibit Dates:** 3/55-12/68.

**Objectives:** To provide trainees with the knowledge and skills necessary for editing silent and sound motion picture film.

**Instruction:** Fundamental editing procedures, including use of film of .16mm, projection, operation of the silent viewer (sound film), assembly of a motion picture workprint, the principles and techniques of matching action, matching original negatives, and establishing and re-establishing techniques; elementary editing techniques, including cut-ins and cut-aways, build-up and continuity, special effects, splicing 35mm film, use of 35mm viewer, editing 35mm film; editing techniques for sound film, including introduction to single and double system sound and the use of sound viewers, editing single and double system sound, matching sound and picture negative to work prints; advanced editing techniques, including music and sound effects, introduction to lip synchronization and preparation of a complete motion picture film.

**Credit Recommendation:** See explanatory note at the beginning of the Air Force section.

AF-1709-0012

**AUDIO-VISUAL FUNDAMENTALS**

**Course Number:** 34OR2320.

**Location:** 3415th Technical School, Lowry AFB, CO.

**Length:** 6 weeks (150 hours).

**Exhibit Dates:** 5/68-12/73.

**Objectives:** To train personnel in the fundamentals of photography, including black and white film processing and printing.

**Instruction:** Lectures and practical experience in photography, including black and white film processing and printing; school, camera operation, camera processing, printing, quality control, and optics, light, and filters.

**Credit Recommendation:** See explanatory note at the beginning of the Air Force section.

AF-1709-0013

**PHOTOGRAHMETRIC-CARTOGRAPHIC TECHNICIAN (ADVANCED PHOTOGRAHMETRIC CARTOGRAPHIC)**

**Course Number:** AAX22170.

**Location:** Aeronaautical Chart and Information Center, St. Louis, MO.

**Length:** 9 weeks (301 hours).

**Exhibit Dates:** 7/63-12/68.

**Objectives:** To train personnel in cartographic techniques applied to photographic and cartographic techniques.

**Instruction:** Lectures and practical exercises in photogrammetric mathematics, projection, photogrammetric equipment and related functions, regional photography, grids, geodetic, target material reliability determination and reconnaissance systems, and cameras.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in film (12/73).

**AF-1709-0014**

**IMAGERY INTERPRETATION**

**Course Number:** 3AZR20650-1.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in film (12/73).
I-108 COURSE EXHIBITS

LOCATION: 3415th Technical School, Lowry AFB, CO.

LENGTH: 12 weeks (360 hours).

EXHIBIT DATES: 1/69-12/73.

OBJECTIVES: To train personnel to perform in the fundamental aspects of photographic interpretation, including introduction to intelligence, a fundamentals of the interpretation of still photographs, and the practical exercises in the interpretation of still photographs.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 2 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 2 semester hours in photographic interpretation (7/74).

AF-1709-0015

IMAGERY INTERPRETER SPECIALIST

COURSE NUMBER: 3ABR20630.

LOCATION: 3415th Technical School, Lowry AFB, CO.

LENGTH: 15 weeks (450 hours).

EXHIBIT DATES: 7/70-12/73.

OBJECTIVES: To train personnel to perform in the fundamental aspects of photographic interpretation, including introduction to intelligence, fundamentals of interpretation of still photographs, and practical exercises in the interpretation of still photographs.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 3 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 1 semester hours in photographic interpretation (7/74).

AF-1709-0016

NAVY SPECIALIZED IMAGERY INTERPRETATION


LOCATION: School of Applied Aerospace Sciences, Lowry AFB, CO. 3415th Technical School, Lowry AFB, CO.

LENGTH: 6-7 weeks (162-210 hours).

EXHIBIT DATES: 1/71-12/73.

OBJECTIVES: To train personnel in the special aspects of aerial photography, including the principles of aerial photography, and the practical exercises in aerial photography.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 2 semester hours in photo interpretation (7/74); in the upper-division baccalaureate category, 2 semester hours in photo interpretation (7/74).

AF-1709-0017

INTELLIGENCE PHOTO-RADAR OFFICER

COURSE NUMBER: OTS5041-1.

LOCATION: 3750th Technical School, Sheppard AFB, TX.

LENGTH: 10 weeks (300 hours).

EXHIBIT DATES: 1/62-12/68.

OBJECTIVES: To train personnel to perform in the fundamental aspects of photographic interpretation, including introduction to intelligence, the interpretation of still photographs, and practical exercises in the interpretation of still photographs.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 2 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 2 semester hours in photographic interpretation (7/74).

AF-1709-0018

STILL PHOTOGRAPHIC LABORATORY SPECIALIST

COURSE NUMBER: 3ABR23334.

LOCATION: 3415th Technical School, Lowry AFB, CO.

LENGTH: 18-20 weeks (450-570 hours).

EXHIBIT DATES: 5/68-12/73.

OBJECTIVES: To train personnel to perform in the fundamental aspects of photographic interpretation, including introduction to intelligence, the interpretation of still photographs, and practical exercises in the interpretation of still photographs.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 5 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 5 semester hours in photographic interpretation (7/74).

AF-1709-0019

PRECISION PHOTOGRAPHIC SYSTEMS TECHNICIAN

COURSE NUMBER: 3AAR40470.

LOCATION: 3415th Technical School, Lowry AFB, CO.

LENGTH: 18 weeks (540 hours).

EXHIBIT DATES: 7/68-12/73.

OBJECTIVES: To train personnel to perform in the fundamental aspects of photographic interpretation, including introduction to intelligence, the interpretation of still photographs, and practical exercises in the interpretation of still photographs.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 6 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 6 semester hours in photographic interpretation (7/74).

AF-1709-0020

STILL PHOTOGRAPHIC CHIEF SPECIALIST

COURSE NUMBER: 3ABR23341.

LOCATION: 3415th Technical School, Lowry AFB, CO.

LENGTH: 17-18 weeks (460-540 hours).

EXHIBIT DATES: 6/68-12/73.

OBJECTIVES: To train personnel to perform in the fundamental aspects of photographic interpretation, including introduction to intelligence, the interpretation of still photographs, and practical exercises in the interpretation of still photographs.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 3 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 2 semester hours in photographic interpretation (7/74).

AF-1709-0021

INTELLIGENCE PHOTO-RADAR OFFICER

COURSE NUMBER: OB02401-1.


LENGTH: 31 weeks (930 hours).

EXHIBIT DATES: 6/54-12/68.

OBJECTIVES: To train personnel in the special aspects of aerial photography, including introduction to intelligence, the interpretation of still photographs, and practical exercises in the interpretation of still photographs.

CREDIT RECOMMENDATION: In the lower-division baccalaureate/associate degree category, 5 semester hours in photographic interpretation (7/74); in the upper-division baccalaureate category, 5 semester hours in photographic interpretation (7/74).

AF-1709-0022

1. PRECISION PHOTOPROCESSING SPECIALIST

2. PRECISION PHOTOPROCESSING SPECIALIST (PRECISION PHOTOGRAPHIC SYSTEMS SPECIALIST)

COURSE NUMBER: All Versions: 3ABR23340.


OBJECTIVES: To train personnel to perform in the special aspects of aerial photography, including introduction to intelligence, the interpretation of still photographs, and practical exercises in the interpretation of still photographs.
AF-1709-0023

PRECISION PHOTOGRAPHIC PROCESSING SPECIALIST

Course Number: 3ALR23430-1; ALR23430-1; ALR23231.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 9 to 11 weeks (270-330 hours).

Objectives: To train enlisted personnel in photographic processing.

Instruction: Lectures and practical exercises in photographic processing, including sensitometric control, photographic chemistry principles, statistical and mathematical functions, in the lower-division baccalaureate category.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in precision photographic processing, and credit in elementary statistics on the basis of institutional evaluation (12/68).

AF-1709-0025

MOTION PICTURE LABORATORY SPECIALIST

Course Number: 3ABR23332.

Location: 3415th Technical School, Lowry AFB, CO.


Objectives: To provide training in precision photographic processing, and credit in elementary statistics on the basis of institutional evaluation (12/68).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in precision photographic processing, and credit in elementary statistics on the basis of institutional evaluation (12/68).

AF-1709-0026

STILL PHOTOGRAPHIC OFFICER

Course Number: OB2331.

Location: Air Training Command, Lowry AFB, CO.

Length: 15 weeks (450 hours).

Exhibit Dates: 10/54-12/56.

Objectives: To teach the duties of a unit photographic and laboratory commander and to qualify students to supervise activities of aerial photographers and laboratory technicians.

Instruction: Course includes training in laboratory principles of photography, photographic copying, 4x5 camera operation, projection printing, laboratory procedures for aerial photography and field operations, basic wild photography, advanced aerial photography, charting and mapping, and technical administration.

Credit Recommendation: In the upper-division baccalaureate category, 3 semester hours in photographic processing laboratory (12/68).

AF-1710-0001

PLUMBING SYSTEM MAINTENANCE (LGM-68B)

PLUMBER/PLUMBING SUPERVISOR (SM-68B)

Course Number: ABR55255Y

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 4-6 weeks (108-150 hours).

Exhibit Dates: 3/62-6/68.

Objectives: To train airmen to perform as plumbing specialists and supervisors in SM-68B missile facilities.

Instruction: Lectures and practical exercises in plumbing operations in SM-68B missile facilities, including weapon system familiarization, maintenance management, corrosion control, configuration operation, and maintenance of water supply equipment and water storage, domestic water, industrial water, and fire water systems; configuration and maintenance of the contaminated water, sanitary waste, and drainage systems; water requirements and testing, and water pumping operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in environmental or nuclear plant technology (5/74); in the upper-division baccalaureate category, 2 semester hours in environmental or nuclear plant technology (5/74).

AF-1710-0002

1. PLUMBING SPECIALIST (PLUMBER)

2. PLUMBER

Course Number: Version 1: 3ABR55235; ABR55235; ABR56430; ABR56430. Version 2: ABR56430.

Location: Version 1: School of Applied Aerospace Sciences, Sheppard AFB, TX; 3750th Technical School, Sheppard AFB, TX. Version 2: 3450th Technical School, Warren AFB, WR.

Length: Version 1: 9-15 weeks (270-360 hours); Version 2: 10-15 weeks (300 hours).


Objectives: To train basic airmen to perform as apprentice plumbers.

Instruction: Lectures and practical exercises in plumbing operations in SM-68B missile facilities, including weapon system familiarization, maintenance management, corrosion control, configuration operation, and maintenance of water supply equipment and water storage, domestic water, industrial water, and fire water systems; configuration and maintenance of the contaminated water, sanitary waste, and drainage systems; water requirements and testing, and water pumping operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in plumbing or water sanitation technology (5/74); in the upper-division baccalaureate category, 2 semester hours in plumbing or water sanitation technology (5/74).

AF-1710-0003

PLUMBER/PLUMBING SUPERVISOR (SM-68B)

Course Number: AT556430-3

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 6 weeks (180 hours).

Exhibit Dates: 10/61-12/68.
COURSE EXHIBITS

AF-1710-0005

FULLY SPECIALIST (UNCONVENTIONAL FUELS)

Course Number: ABR5530B
Location: 3345th Technical School, Chanute AFB, IL.
Length: 13 weeks (360 hours).
Exhibit Dates: 3/59-12/68.

Objectives: To train enlisted personnel to perform as apprentice fuel supply specialists.

Instruction: Lectures and practical exercises in the functions of fuel specialists (unconventional fuels), including hand tools and equipment, properties of oxygen and fuel steam, characteristics of unconventional fuels, physical and chemical characteristics of oxidants, coupling and uncoupling tractor and trailer, semitrailer driving, operation of transfer and storage equipment for unconventional fuels, quality control, and servicing with portable and static servicing equipment of blow-down stands.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in chemistry (6/74).

AF-1710-0006

PAVEMENTS MAINTENANCE SPECIALIST

Course Number: Version 1: A3R553130; Version 2: ABR553130
Location: Version 1: School of Applied Aerospace Sciences, Sheppard AFB, TX. Version 2: 3750th Technical School, Sheppard AFB, TX.

Objectives: To train airmen as pavement maintenance specialists.

Instruction: All Versions: Lectures and practical exercises in duties of pavement maintenance specialists, including specification of construction materials, blueprints, construction equipment, grade stake reading, soil mechanics, base course and drainage, railroad track maintenance, concrete mixtures, pavement construction, rigid-pavement maintenance, bituminous mixtures, prefabricated surface mats, and flexible-pavement maintenance.

Version 1: Includes management, agricultural soil testing, erosion control, aircraft shelters, vegetation control, herbicide and dispersal equipment, snow and ice removal, use of explosives and soil chemicals, and bomb damage repair.

Version 2: Includes revetment construction.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 5 semester hours in construction technology (5/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in construction technology (5/74).

AF-1710-0007

PAVEMENTS MAINTENANCE SPECIALIST

Course Number: Version 1: A3R551510; Version 2: A3R551510
Location: Version 1: School of Applied Aerospace Sciences, Sheppard AFB, TX. Version 2: 3750th Technical School, Sheppard AFB, TX.
Length: Version 1: 1 week (120 hours). Version 2: 3 weeks (90 hours).

Objectives: To train airmen to perform as pavement maintenance specialists.

Instruction: Lectures and practical exercises in the duties of pavement maintenance specialists, including specifications of construction materials, blueprints, construction equipment, grade stake reading, soil mechanics, base course and drainage, concrete mixtures, bituminous mixtures, hardwood, rigid and flexible pavement construction and maintenance, and preparation of bituminous mixtures, rigid and flexible pavements.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in construction of pavements (5/74); in the upper-division baccalaureate category, 2 semester hours in construction of pavements (5/74).

AF-1710-0008

CONSTRUCTION EQUIPMENT OPERATOR

Course Number: A3R551310
Location: Version 1: School of Applied Aerospace Sciences, Sheppard AFB, TX. Version 2: 3750th Technical School, Sheppard AFB, TX.

Objectives: To train airmen to perform as construction equipment operators.

Instruction: Lectures and practical exercises in construction equipment operation, including operation of trucks, front end loaders, forklifts, dozers, scrapers, cranes, graders, and specialized maintenance equipment.


AF-1710-0009

CARPENTRY SPECIALIST

Course Number: A3R553230
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX. 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240-320 hours).
Exhibit Dates: 11/70-12/73.

Objectives: To train airmen to perform as carpentry specialists.

Instruction: Lectures and practical exercises in carpentry, including use and maintenance of hand and power tools, structured framework, interior and exterior walls, formwork for concrete, glass handling,Fitting and sheathing procedures, interior finishing, maintenance of wood structures, and erection of prefabricated buildings.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1710-0010

GENERAL MAINTENANCE (BUILDING MAINTENANCE MECHANIC)

Course Number: ALR55330: ALR55332
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 6 weeks (180 hours).
Exhibit Dates: 1/62-1/68.

Objectives: To train personnel as mechanics in building maintenance, repair, and general upkeep.

Instruction: Lectures and practical exercises in the general maintenance and repair of buildings, including repair of plumbing systems and concrete and masonry; electrical maintenance; fundamentals of electricity; appliance repair and electrical circuit troubleshooting; and maintenance of building appliances, controls, and heating units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in building maintenance (6/74).

AF-1710-0011

CORROSION CONTROL SPECIALIST

Course Number: 3ABR5530; ABR55330
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX. 3750th Technical School, Sheppard AFB, TX.
Length: 6-8 weeks (210-280 hours).
Exhibit Dates: 6/65-12/73.

Objectives: To train enlisted personnel to perform as apprentice corrosion control specialists.

Instruction: Lectures and practical exercises in corrosion control, including causes and characteristics of corrosion; identification of metals and corrosion products; preparation, application, and maintenance of coatings; corrosion removal by chemical and mechanical methods; corrosion inspection techniques, including application of nondestructive inspection equipment, and corrosion documentation.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1710-0012

CORROSION CONTROL

Course Number: ALR55330-1
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 7 weeks (210 hours).
Exhibit Dates: 2/65-12/68.

Objectives: To train enlisted personnel in corrosion control.

Instruction: Lectures and practical exercises in causes and characteristics of corrosion; identification of metals and corrosion products; passivation of metal surfaces for corrosion prevention; preparation, application, and maintenance of coatings; corrosion removal by chemical and mechanical methods; corrosion inspection...
AF-1710-0013

PROTECTIVE COATING SPECIALIST

Course Number: 3ABR55234 - ABR55234.
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX. 3750th Technical School, Sheppard AFB, TX.
Length: 7-8 weeks (210-224 hours).

Objectives: To train airmen to perform as protective-coating specialists at the apprentice level.

Instruction: Lectures and practical exercises in protective-coating principles and procedures, including corrosion control and protection of metal surfaces; preparation and application of coatings to wood, masonry, concrete, and gypsum board surfaces; cleaning procedures; conditioning and air spraying; marking and camouflage of vehicles, roads, and buildings.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in carpentry (5/74).

AF-1710-0014

MASONRY SPECIALIST

Course Number: 3ABR55233.
Location: Version 1: School of Applied Aerospace Sciences, Sheppard AFB, TX.
Version 2: 3750th Technical School, Sheppard AFB, TX.
Length: Version 1: 7 weeks (210 hours).
Version 2: 8 weeks (240 hours).

Objectives: To train airmen to perform as masonry specialists.

Instruction: Lectures and practical exercises in masonry, including use of various masonry tools, preparation of steel reinforcement for concrete columns, building forms for concrete, mixing and pouring concrete, cutting masonry, preparation of concrete blocks, construction of stone and brick walls, application of plaster and stucco, installation of wall and floor tile, and maintenance and repair of the variety of masonry constructions.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in building construction or masonry (5/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in building construction or masonry (5/74).

AF-1710-0015

WOODWORKER

Course Number: AB55230.
Location: 3450th Technical School, Wren AFB, WY.
Length: 13 weeks (390 hours).

Objectives: To train airmen to identify, use, and maintain hand and power woodworking tools at the Apprentice level.

Instruction: Lectures and practical exercises in the identification, use, and maintenance of hand and power woodworking tools, including raising of furring strips, constructing construction or building maintenance (5/74).

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1710-0016

WELDING OF A-286 ALLOY MATERIAL (J-79 ENGINE)

Course Number: ACTS5320-4.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).

Objectives: To train enlisted personnel to weld alloy material and to set up and use inert-gas shielded and metallic-arc welding equipment.

Instruction: Lectures and practical exercises on welding alloy material; use of chromoloy welding equipment and materials; heat treatment; and inert-gas shielded and metallic arc welding certification tests.

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

AF-1710-0017

SPECIAL VEHICLE MECHANIC

Course Number: AL47132.
Location: 3450th Technical School, Wren AFB, WY.
Length: 15 weeks (450 hours).

Objectives: To train airmen to inspect, maintain, and repair aircraft refueling, fire-fighting, towing, and recovery equipment.

Instruction: Lectures and practical exercises in the inspection, maintenance and repair of aircraft refueling, fire-fighting, towing, and recovery equipment; including welding, erecting, and repairing equipment; and repairing and testing equipment.

Credit Recommendation: No credit because of the military nature of the course (5/74).

AF-1710-0018

MISSILE TECHNICIAN, SM-80

Course Number: ATS44370G-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 7 weeks (210 hours).

Objectives: To train enlisted personnel to operate and maintain nonelectronic components of SM-80 missile facilities.

Instruction: Lectures and practical exercises in the operation and maintenance of nonelectronic components of SM-80 missile facilities, including missile handling and maintenance vehicles; WS-133A missile familiarization; launch facility systems (electrical power, environmental control, fuel oil supply, sewage, fire control, and antenna); and installation and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour as an elective in mechanical maintenance (7/74).

AF-1710-0019

SPECIAL VEHICLE REPAIRMAN

Course Number: 3ABR47133.
Length: 23-28 weeks (660-750 hours).

Objectives: To train airmen as special-vehicle repairmen.

Instruction: Lectures and practical exercises in special-vehicle repair, including troubleshooting, and repair of recovery vehicles, refueling vehicles, fire-fighting vehicles, and aircraft towing vehicles; repair of special-vehicle components and assemblies (gasoline engines and associated components); vehicle lighting and warning electrical systems; power trains; steering mechanisms; braking systems; fire control systems; dispensing systems; heating; electrical systems; hydraulic systems; air-conditioning systems; heating and insulation mechanisms; truck crane carrier assemblies; drawbars and dollies; generators and motors; and electrical control circuits; and familiarization training in the repair of diesel engines and associated components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in heavy equipment repair (8/74).

AF-1710-0020

A/S32R-2 REFUELER (MODEL 2116) INTERMEDIATE/ORGANIZATIONAL (I/O) MAINTENANCE

Course Number: 3AZR47251B.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 2 weeks (70 hours).

Objectives: To provide personnel with knowledge and skills necessary to repair the A/S32R-2 refueling vehicle.

Instruction: Lectures and practical exercises in the operation and maintenance of nonelectronic components and systems of the A/S32R-2 refueling vehicle.

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

AF-1712-0001

MB-2 TOWING TRACTOR, FIELD AND ORGANIZATIONAL MAINTENANCE

Course Number: ATS47152-26.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120 hours).

Exhibit Dates: 8/59-12/68.
I-112 COURSE EXHIBITS

Objectives: To train enlisted personnel to operate, rework, repair, replace, test, and troubleshoot the components and systems of MB-2, towing tractor, tractor, and associated equipment. Instruction: Lectures and practical exercises in the operation, removal, repair, replacement, testing, and troubleshooting of the components and systems of MB-2 towing tractors, including clutch and torque converter, hydraulic steering system; hubs, wheels, axles, and brakes; GMC injection system; diesel engine principles; power train, engine, and electrical systems; troubleshooting and repair in diesel engines; and valve refining and servicing.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1712-0002
1. ELECTRICAL POWER PRODUCTION, ALEUTIAN DEW LINE
2. ELECTRICAL POWER PRODUCTION, ALEUTIAN DEW LINE (POWER PRODUCTION SPECIALIST (DEW LINE))


Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in engine repair (6/74).

AF-1712-0004
ELECTRICAL POWER PRODUCTION REPAIRMAN

Course Number: ALR56731A. Location: 3750th Technical School, Sheppard AFB, TX. Length: 8 weeks (240 hours). Exhibit Dates: 10/58-12/68.

Objectives: To train apprentice electrical power production operators in electrical power production repairmen.

Instruction: Lectures and practical exercises in the duties of apprentice electrical power production repairmen, including ground safety, radiation, technical publications, security, maintenance forms, product improvement, climatic conditioning, installation of power production equipment, maintenance of prime mover and exciter systems, maintenance of alternator and switch gear systems, and in the inspection, maintenance, operation, and servicing of specific power units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engine repair (6/74).

AF-1712-0005
1. ELECTRICAL POWER PRODUCTION SPECIALIST
2. ELECTRICAL POWER PRODUCTION SPECIALIST (ELECTRICAL POWER PRODUCTION OPERATOR)


Objectives: To train personnel as electrical power production specialists in support of Aleutian DEW Line facilities.

Instruction: Lectures and practical exercises in the duties of power production specialists, including operating principles of specific engines; operation, alignment, and servicing of electric generators; inspection and servicing of fuel systems and components; engine lubricating system, inspection and servicing of engine intake, exhaust, and air starting systems.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engine repair (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in diesel engine repair (6/74).

AF-1712-0003
ELECTRICAL POWER PRODUCTION REPAIRMAN/TECHNICIAN (SM-68)

Course Number: ATS56751-7. Location: 3750th Technical School, Sheppard AFB, TX. Length: 8 weeks (240 hours).

Exhibit Dates: 2/68-12/68.

Objectives: To train personnel to operate and maintain diesel-electric generators.

Instruction: Lectures and practical exercises in the operation and maintenance of diesel-electric generators. Course includes publications and engine fundamentals, engine systems, and associated equipment; fundamental engine repair; power generation and circuit characteristics; generation equipment, controls, and wiring diagrams; operation and maintenance of mobile generator sets; generator set operation and maintenance; and generator set operation and aircraft arresting barriers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in engine repair (6/74).
Instruction: Lectures and practical exercises in safety procedures, electrical fundamentals, maintenance, overhead and underground distribution systems, and airfield lighting.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1714-0002

CHANNEL AND TECHNICAL CONTROL OPERATOR (CHANNEL TECHNICAL CONTROL CENTER) (CHANNEL AND TECHNICAL CONTROL OPERATOR)

Course Number: ALR29335A; ALR29335B
Location: 3380th Technical School, Keesler AFB, MS.
Length: 14 weeks (420 hours).
Exhibit Dates: 9/59-12/68.
Objectives: To train technicians to operate, adjust, align, and troubleshoot channel and technical control equipment.

Instruction: Lectures and practical exercises in basic electronic principles; radiotelegraph, radiotelephone, teletype and communications center procedures and operations; oscillograph analysis of multiplex equipment, patch panels, and remote systems; and simulated operations.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electricity/electrical laboratory on the basis of institutional evaluation (3/74).

AF-1714-0004

WEAPONS FUZING SYSTEMS SPECIALIST (ELECTRICAL)

Course Number: AB33130-B; AB33130-A
Location: 3415th Technical School, Lowry AFB, CO.
Length: 19 weeks (510-540 hours).
Exhibit Dates: 12/55-12/68.
Objectives: To train enlisted personnel to maintain and repair nuclear weapons fuzing systems, components, and test equipment.

Instruction: Lectures and practical exercises in electronics fundamentals, including DC motors, generators, and meters; AC generation; inductive and capacitive reactance; series-parallel circuits; synchro systems; diode and triode tubes; rectifiers and filters; and transients in R-C networks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in basic electricity on the basis of institutional evaluation (3/74).

AF-1714-0005

GUIDANCE SYSTEMS ANALYST (TM-76A)

Course Number: ABR31400-A
Location: 3415th Technical School, Lowry AFB, CO.

Objectives: To train enlisted personnel to maintain and repair TM-76A guidance systems.

Instruction: Lectures and practical exercises in basic electronics; flight control systems; and guidance test set theory.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics laboratory (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 evaluation (3/74).

Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electricity or electrical laboratory on the basis of institutional evaluation (3/74).

AF-1714-0006

MISSILE ELECTRICAL SPECIALIST (SM-68A)

Course Number: ABR41300E
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 10 weeks (300 hours).
Exhibit Dates: 2/63-12/68.
Objectives: To train enlisted personnel as missile electrical specialists on SM-68 missile systems and associated equipment.

Instruction: Lectures and practical exercises in Titan familiarization and operation and maintenance of missile electrical systems. Test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1714-0007

MISSILE FACILITIES, SPECIALIST (LGM-25)

Location: 3750th Technical School, Sheppard AFB, TX.
Objectives: To train and prepare Titan missile facilities maintenance personnel to perform maintenance and operation of missile facilities.

Instruction: Lectures and practical experience in Titan facility system, including AC and DC circuits; graphic interpretation of electrical and pneumatic systems, transformers, motors, and generating systems.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electrical laboratory (3/74).

Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electricity or electrical laboratory on the basis of institutional evaluation (3/74).

AF-1714-0008

MISSILE FACILITIES SPECIALIST, LGM-25

Course Number: ALR54130F
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 14 weeks (420 hours).
Exhibit Dates: 4/65-12/68.
Objectives: To train enlisted personnel to perform Titan missile electrical systems.

Instruction: Lectures and practical exercises in Titan missile maintenance and manpower documentation forms and records, publications; hazard-monitoring and damage control procedures; Titan electrical power generation, including electrical generating systems and diesel engine and generator inspection, operation, maintenance, and troubleshooting procedures; and Titan power distribution, elevators, and propulsion systems and operating procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1714-0009

ELECTRICIAN AND ELECTRICAL TECHNICIAN, MISSILE FACILITIES SPECIALIST (LGM-25)

Course Number: 3ALR54230G-1
Location: 3345th Technical School, Chanute AFB, IL.
Length: 6-7 weeks (180-210 hours).
Exhibit Dates: 2/65-12/73.
Objectives: To familiarize enlisted personnel with the maintenance and distribution of weapons systems and ground equipment.

Instruction: Practical experience in support base electrical maintenance, safety and first aid, corrosion control, and multiamper relay test set familiarization.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

AF-1714-0010

MISSILE ELECTRICAL SPECIALIST (SM-65 E & F)

Course Number: ABR41300A
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 12/62-12/68.
1-114 COURSE EXHIBITS

Objectives: To train enlisted personnel to maintain and repair Atlas missile electrical systems.

Instruction: Lectures and practical exercises in operating principles of the missile inverter, battery and electrical system components, inspection and check-out of missile electrical systems, and completion of maintenance forms.

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

AF-1714-0011

GUIDED MISSILE OPERATIONS/Maintenance Officer (SM-68)

Course Number: OZR1821; OZR3121B-2.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 6 weeks (180 hours).

Exhibit Dates: 3/61-12/68.

Objectives: To train officers as missile operators or maintenance officers.

Instruction: Lectures and practical exercises in systems and facilities, missile systems maintenance and inspections, and launch procedures and console operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1714-0012

ELECTRICIAN

Course Number: 3ABR54230-1; ABR54230; ABR65130.


Length: 9-14 weeks (270-390 hours).

Exhibit Dates: 7/55-12/73.

Objectives: To train enlisted personnel to be electricians.

Instruction: Lectures and practical exercises in electrical, fundamentals, including Ohm's law, resistors, series and parallel circuits, transformers, motors, and fire alarms; and extensive training in use of tools and electrical equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1714-0013

1. ELECTRICAL STANDARDS CONSOLE AND LOW FREQUENCY VOLTAGE AND CURRENT

2. ELECTRICAL STANDARDS CONSOLE


Location: 3415th Technical School, Lowry AFB, CO.


Exhibit Dates: 5/70-12/73.

Objectives: To train enlisted personnel to use and calibrate precision measuring equipment.

Instruction: Lectures and laboratories in theory of operation, maintenance, troubleshooting, and calibration of electrical standards consoles and low-frequency voltage and phase standards.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (communications), 1 semester hour in circuits laboratory (3/74); in the upper-division baccalaureate category, credit in circuits laboratory on the basis of institutional evaluation (3/74). Version 2: No credit because of the limited specialized nature of the course (3/74).

AF-1714-0014

ELECTRICIAN/SUPERVISOR (FACILITY)

Course Number: ATSS65150-5.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 3 weeks (390 hours).

Exhibit Dates: 4/61-12/68.

Objectives: To train airmen to perform as electricians or electrician supervisors of weapons systems.

Instruction: Lectures and practical exercises in the maintenance and operation of weapons systems, including DC and AC circuits, magnetism, motors, control circuits, power generation, distribution systems, transistor principles, surveillance, pre-startup and remote control.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity (12/68).

AF-1714-0015

1. OUTSIDE WIRE AND ANTENNA MAINTENANCE REPAIRMAN

2. OUTSIDE WIRE AND ANTENNA SYSTEMS INSTALLATION AND MAINTENANCE SPECIALIST

3. OUTSIDE WIRE AND ANTENNA SYSTEMS INSTALLATION AND MAINTENANCE SPECIALIST

4. OUTSIDE WIRE AND ANTENNA SYSTEMS INSTALLATION AND MAINTENANCE SPECIALIST (CABLE AND ANTENNA INSTALLATION SPECIALIST)


Objectives: To train enlisted personnel to maintain and repair outside wire and antenna systems.

Instruction: Lectures and practical exercises in outside-plant construction fundamentals; interpretation of technical orders; layout, installation, antenna support and tower assembly and erection; and construction and installation of double-type, tubular, and dipole antennas.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in civil technology (communications), wireman, power system lineman, or antenna systems specialist (3/74); in the upper-division baccalaureate category, 2 semester hours in civil technology (communications), wireman, power system lineman, or antenna systems specialist (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in civil technology (communications), wireman, power system lineman, or antenna systems specialist (3/74).

AF-1714-0016

1. CABLE SPlicing SPECIALIST

2. CABLE SPlicing SPECIALIST (GENERAL)

3. CABLE SPlicing SPECIALIST

Course Number: ALR36131. Version 1: ABR36134; ABR36113; ABR3611B; ABR36131.

Location: Version 1: School of Applied Aerospace Sciences, Shipment AFB, TX. Version 2: 3450th Technical School, Warren AFB, WY.


Objectives: To train enlisted personnel as cable-splicing specialists.

Instruction: Lectures and practical exercises in construction fundamentals, pole climbing, conductor splicing lead and staple cable, lead sheath cable splicing, sealing and sheathing plastic cable, underground splicing procedures, aerial cable testing and splicing procedures, cable pressure systems, trouble-tracing cable systems, splicing and sealing various cables, and cable systems installation and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical power technology (6/74).
AF-1714-0017

CABLE SPlicing: SPECIALIST (GENERAL)
(CABLE SPlicing SPECIALIST/SUPERVISOR (GENERAL))

Course Number: 3AZR36154-1; AZR36154-1; AZR36151B-1.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 10 weeks (300 hours).

Exhibit Dates: 12/66-12/73.

Objectives: To train personnel to install and maintain aircraft electrical systems, using hand tools, maintenance manuals, technical data, and work methods.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1714-0018

MISSILE SYSTEM CABLE SPlicing SPECIALIST (CABLE SPlicing SPECIALIST (HARDEDNED MISSILE SYSTEMS))

Course Number: ABR36133; ABR36131A-1; ABR36131A-2; ABR36133.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 4 weeks (180-210 hours).

Exhibit Dates: 6/63-12/73.

Objectives: To train personnel to perform as missile systems cable-splicing specialists.

Instruction: Lectures and practical exercises in missile systems cable splicing and repair, including cable splicing fundamentals, installation and replacement of splice cases, cable section replacement, cable testing procedures, cable pressure systems, and maintenance management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical technology (5/74).

AF-1714-0019

INSIDE PLANT INSTALLATION

Course Number: AZR36250-6.
Location: 375th Technical School, Sheppard AFB, TX.


Objectives: To train airmen to install inside-plant equipment.

Instruction: Lectures and practical exercises in inside-plant equipment installation, including job specifications, bill of materials, standard layout, marking, placement and securing of equipment, superstructure installation, cable, coaxial cable facks and plugs, conduit and duct installation, stenciling, and methods of securing, fanning, forming, butting, stripping, sewing forms, wiring, and connecting cable.


AF-1714-0020

ANTENNA INSTALLATION AND MAINTENANCE

Course Number: AZR36150-2.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 10 weeks (300 hours).

Exhibit Dates: 12/66-12/73.

Objectives: To train personnel to install and maintain antennas, including antenna installation fundamentals, practices, pole climbing, care, and use of wire and fiber rope, operation of high- or low-profile construction trucks, elementary surveying, antenna supports, erection of antenna support poles, tower assembly and hazard lighting, installation of delta match antenna (including transmission line), installation of coaxial cable transmission line, and principles and characteristics of antennas.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1714-0021

1. OUTSIDE PLANT INSTALLATION AND MAINTENANCE

2. OUTSIDE PLANT INSTALLATION

Course Number: Version 1: 3AZR36150-1.
Location: 375th Technical School, Sheppard AFB, TX.
Length: Version 1: 13 weeks (390 hours). Version 2: 10 weeks (300 hours).


Objectives: To train enlisted personnel in cable and antenna fundamentals, antenna construction, and antenna systems inspection and maintenance.

Instruction: All Versions: Lectures and practical exercises in antenna fundamentals and construction, including first aid and safety; rope, knots, and splices; aerial and underground cable specifications; electrical principles, antennas installation; and coaxial cable transmission lines. Version 1: Instruction includes inspection and maintenance of antenna systems.


AF-1714-0022

WEAPONS MECHANIC

Location: 3415th Technical School, Lowry AFB, CO.


Objectives: To train personnel as weapons mechanics.

Instruction: Version 1: Lectures and practical exercises in the duties of weapons mechanics, including publications, specific automatic guns, field exercises, fighter systems, and bomber systems. Version 1: See explanatory note at the beginning of the Air Force section.

Topics include principles of AC and DC, air munitions, bomb-release system, nuclear weapons, malfunction of equipment, hand tools, machine guns, pneumatics and hydraulics, and associated armament equipment. Version 2: Topics include hand tools, maintenance manuals, technician armament equipment, and nuclear weapons. Version 3: Topics include hand tools, fundamentals of electricity, launching systems, fighter type and bombardment-type aircraft, hand and shoulder weapons, machine guns, and malfunction laboratory.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 as a technical elective (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours as a technical elective (7/74). Version 3: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 as a technical elective (7/74).

AF-1715-0001

1. BIOMEDICAL EQUIPMENT MAINTENANCE SPECIALIST (MEDICAL EQUIPMENT REPAIRMAN)
2. MEDICAL EQUIPMENT REPAIRMAN
3. MEDICAL EQUIPMENT REPAIRMAN (APPRENTICE MEDICAL EQUIPMENT REPAIRMAN)

Course Number: Version 1: ABR40330-1.
Location: Version 1: School of Health Care Sciences, Sheppard AFB, TX; School of Medical Technology, Gunter AFB. Version 2: Sheppard Technical Training Center, Sheppard AFB, TX. Version 3: Sheppard Technical Training School, Sheppard AFB, TX. Version 4: Medical Service School, Gunter AFB, AL; School of Aviation Medicine, Gunter AFB, AL.


Objectives: To provide basic career training for biomedical maintenance personnel.

Instruction: Lectures on the principles of medical equipment systems, equipment inspection, installation, calibration, modification, troubleshooting, and repair, and administrative and managerial functions of medical maintenance and shop operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 30 semester hours in biomedical equipment technology, 3 in electronics, and additional 3 semesters on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 30 semester hours in biomedical equipment technology, 3 in electronics, and additional credit on the basis of institutional evaluation (2/74); in the upper-division baccalaureate category, 2 semester hours in electricity (12/68).
AF-1715-0002

FLIGHT FACILITIES EQUIPMENT BASIC O/I
MAINTENANCE

Course Number: 2ASR30451-13.
Location: 3380th Technical School, 3415th Technical School, Keesler AFB, MS.
Length: 14 weeks (420 hours).
Exhibit Dates: 2/71-12/73.

Objectives: To train enlisted personnel in basic organizational and intermediate maintenance of flight facilities equipment.

Instruction: Lectures and practical exercises in electronic principles, special circuits, ground C-E maintenance management, technical Lectures on safety, and use of regular and specialized test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in flight facilities equipment basic O/I maintenance (3/74); in the upper-division baccalaureate category, 2 semester hours in flight facilities equipment basic O/I maintenance (3/74).

AF-1715-0003

LAUNCH ENABLE SYSTEM SPECIALIST, SM-68B

Course Number: ATS30351D-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 13 weeks (390 hours).
Exhibit Dates: 7/62-12/68.

Objectives: To train Air Force personnel as launch-enable system specialists.

Instruction: Lectures and practical experience in semiconductor physics, transistor circuits, logic gates, binary mathematics, algebra, special adders and parity circuits, and launch systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory, 2 in computers (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0004

F-111 FLIGHT CONTROLS TEST STATION TECHNICIAN

Course Number: 3ALR32570-2.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 9 weeks (270 hours).
Exhibit Dates: 7/69-12/73.

Objectives: To train enlisted personnel to perform intermediate maintenance on the F-111 flight controls test station.

Instruction: Lectures and practical exercises, in computer mathematics, data and signal flow analysis, computer equipment and keyboard operation, components circuit analysis, and test station operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computerized testing equipment (3/74); in the upper-division baccalaureate category, 1 semester hour in computerized testing equipment (3/74).

AF-1715-0005

JET ENGINE ANALYZER—IRD OPERATOR
(JET ENGINE ANALYZER—IRD MAINTENANCE)

Course Number: ATS43270-47.
Location: Technical Training Center, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 6/60-12/68.

Objectives: To train enlisted personnel in the operation and maintenance of the JET engine analyzer equipment.

Instruction: Lectures and practical exercises in description, location, and installation of engine analyzer components; review of electronic principles; electronic circuits related to engine analyzers; troubleshooting; and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

AF-1715-0006

BOMB NAVIGATION SYSTEMS MECHANIC
(FB-111)

Course Number: 3ALR32130R.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 24 weeks (720 hours).
Exhibit Dates: 9/69-12/73.

Objectives: To train enlisted personnel to repair bomb navigation systems.

Instruction: Lectures and practical exercises in attack radar system theory, operation, and maintenance; optical display sight system operation and maintenance; digital computer complex, control and display set; and integrated system summary operation; and both navigation system maintenance, operational checks, and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 6 semester hours in electronics, 2 in electronics laboratory, and additional credit in electronics on the basis of institutional evaluation (4/74).

AF-1715-0007

F/EB-111 NAVIGATION AIDS TEST STATION TECHNICIAN

Course Number: 3ALR30171-1.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 9 weeks (270 hours).
Exhibit Dates: 5/68-12/73.

Objectives: To train enlisted personnel to perform as navigation test aids station technicians.

Instruction: Lectures and practical experience in operation and confidence testing of communications and navigation aids test station; shop repairable units maintenance, ground safety and security, technical publications, corrosion control, and maintenance management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computerized testing equipment (3/74); in the upper-division baccalaureate category, 1 semester hour in computerized testing equipment (3/74).

AF-1715-0008

AUTOMATIC TRACKING RADAR SPECIALIST
(SHORAN)

Course Number: AB30333A.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 22 weeks (570 hours).
Exhibit Dates: 3/58-12/68.

Objectives: To train airmen to maintain, inspect, and repair AN/CPN-2A automatic tracking radar equipment and related test equipment.

Instruction: Lectures and practical experience in AC and DC current, electron tubes and power supplies, amplifiers and oscillators; special circuits, and AN/CPN-2A radar equipment analysis and maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AF-1715-0009

1. AUTOMATIC TRACKING RADAR SPECIALIST (AUTO TRACKING RADAR EQUIPMENT)

2. AUTOMATIC TRACKING RADAR SPECIALIST (RADAR SYSTEMS)

3. AUTOMATIC TRACKING RADAR SPECIALIST

Location: 3380th Technical School, Keesler AFB, MS.

Objectives: To train enlisted personnel to operate, maintain, and repair automatic tracking radar equipment.


Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory, and 3 as an elective in electricity or electronics (3/74).
AF-1715-0010

1. **Weapons Control Systems Mechanic**
   (Fire Control Systems Mechanic (FS105D/F: ASG-19 System))

2. **Weapons Control Systems Mechanic**
   (Fire Control Systems Mechanic (FS105D/F: ASG-19 System))

3. **Offensive Fire Control Systems Mechanic**
   (ASG-19 System)

4. **Offensive Fire Control Systems Mechanic**
   (ASG-19 System)

5. **Offensive Fire Control Systems Mechanic**
   (ASG-19 System)

AF-1715-0012

1. **Offensive Fire Control Systems Technician**
   (MA-1, ASG-17 Systems)

2. **Fire Control System Technician**
   (MA-1, 2, 3 GBR Sight Systems)

3. **Fire Control System Technician**
   (MA-1, MA-2, MA-3 Systems)

AF-1715-0011

**Offensive Fire Control Systems Mechanic**
(ASG-19 System)

**Instruction:** Lectures and practical exercises in turret system repair; including data flow of the A-5 system; system check-out; radar loop tests and adjustments; and system harmonization and troubleshooting.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics (3/74).

AF-1715-0014

**BUIC III I/O Display Equipment Maintenance**

**Course Number:** 2ASR30553C-1

**Location:** Keesler AFB, MS.

**Length:** 15 weeks.

**Objectives:**
- To train airmen to maintain and repair equipment related to automatic navigation systems.
- To provide basic training in the maintenance of automatic navigation systems.

**Instruction:** Lectures and practical exercises in automatic navigation systems, principles of air navigation, electromechanical computation, operational theory of ASN-7 computers, input and output information, malfunctions, and systems analysis, inspection, maintenance, and repair techniques.

**Credit Recommendation:** Insufficient data for evaluation (3/74).

AF-1715-0015

**AN/ASN-7 Automatic Navigational Computer**

**Field and Organizational Maintenance of Automatic Navigation Computer (AN/ASN-7)**

**Course Number:** ATS42373-1; SS42373-1

**Location:** 3345th Technical School, Keesler AFB, MS.

**Length:** 24 weeks.

**Objectives:**
- To provide enlisted personnel with basic training in the maintenance of automatic aircraft navigation computers.

**Instruction:** Lectures and practical exercises in automatic navigation system, principles of air navigation, electromechanical computation, operational theory of ASN-7 computers, input and output information, malfunctions, and systems analysis, inspection, maintenance, and repair techniques.

**Credit Recommendation:** See explanatory note at the beginning of the Air Force section.

AF-1715-0016

**Electronic Computer Repairman**

**Electronic Digital Computer Repairman**

**Course Number:** ABR30533-3

**Location:** 3380th Technical School, Keesler AFB, MS.
1-118 COURSE EXHIBITS

Length: 14 weeks (420 hours).
Exhibit Dates: 3/64-12/68.
Objectives: To train enlisted personnel who have experience in basic electronics to maintain radar-related electronic systems.
Instruction: Lectures and practical exercises in digital computer principles, troubleshooting techniques, test equipment, and hand skills.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 6 semester hours in electricity and electronics, and additional credit in electronics laboratory on the basis of institutional evaluation (3/74).

AF-1715-0017
AN/UPX-14 INTERROGATOR SET, OA
MAINTENANCE
Course Number: AAR30372-59
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 3 weeks (83 hours).
Exhibit Dates: 1/73-12/73.
Objectives: To provide maintenance personnel with supplemental training in the servicing and maintenance of radar recognition sets.
Instruction: Lectures and practical exercises in radar recognition set familiarization, function and arrangement of subassemblies and components, isolation of equipment malfunctions, and inspection, repair, testing, and alignment of the radar recognition set AN/UPX-14.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in radar technology (3/74).

AF-1715-0018
1. ELECTRONIC COMPUTER SYSTEMS REPAIRMAN (AN/FST-2B)
2. ELECTRONIC DIGITAL DATA PROCESSING EQUIPMENT REPAIRMAN (DATA TRANSMISSION)
3. ELECTRONIC DIGITAL DATA PROCESSING EQUIPMENT REPAIRMAN
Objectives: To train enlisted personnel to service and repair electronic computer systems and coordinate-data-transmitting equipment.
Instruction: All Versions: Practical experience in maintenance and operation of data transmitting equipment, multiplexers, random access plan position indicators, electronic data processing principles, digital computer techniques, and shop practices. Version 2: Includes basic circuit analysis and wave-logic.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity and electronics, and additional credit in electronics laboratory on the basis of institutional evaluation (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity and electronics, and additional credit in electronics laboratory on the basis of institutional evaluation (3/74).

AF-1715-0019
1. FLIGHT FACILITIES EQUIPMENT TECHNICIAN
2. FLIGHT FACILITIES EQUIPMENT MAINTENANCE TECHNICIAN
Course Number: AAR3047-1.
Location: 3380th Technical School, Keesler AFB, MS.
Objectives: To train selected airmen in the operation, maintenance, and installation of flight facilities and associated equipment.
Instruction: Lectures and practical experience in advanced electronic principles of circuit analysis; troubleshooting techniques; maintenance, installation, testing, and alignment of flight facilities; flight and ground procedures; shop management and files; supply procedures and catalogs; and personnel management.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in shop management (12/68), 3 in communications engineering (3/74), and credit in communications engineering on the basis of institutional evaluation (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in shop management (12/68).

AF-1715-0020
AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN, AN/FPS-8, AN/FPS-4 (AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN, AN/FPS-8, AN/FPS-4, AND IFF)
Course Number: AB30332E
Location: 3380th Technical School, Keesler AFB, MS.
Length: 28-35 weeks (870-960 hours).
Exhibit Dates: 3/55-12/68.
Objectives: To train enlisted personnel to operate, align, tune, inspect, and repair aircraft control and warning radar equipment.
Instruction: Lectures and laboratories in AC and DC circuits, resistors, inductors, capacitors, transistors, measuring instruments, motors, and generators, oscilloscopes, power supplies, diodes and rectifiers, amplifiers, oscillators, special circuits, and radar microwave propagation.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in a technical elective in electrical engineering (3/74).

AF-1715-0021
1. AUTOMATIC TRACKING RADAR TECHNICIAN (RADAR EQUIPMENT)
2. AUTOMATIC TRACKING RADAR TECHNICIAN (AUTOMATIC TRACKING RADAR EQUIPMENT)
3. AUTOMATIC TRACKING RADAR TECHNICIAN
4. AUTOMATIC TRACKING RADAR TECHNICIAN
Location: 3380th Technical School, Keesler AFB, MS.
Objectives: To provide enlisted personnel with a practical understanding of the maintenance of automatic tracking radar and associated equipment.
Instruction: All Versions: Lectures and practical exercises in transmitter and receiver circuits, indicators and servo circuits, test equipment, transmitter and receiving systems, RF and antenna systems, systems maintenance, and aircraft computer systems. Version 1: Includes applied mathematics, DC and AC circuit analysis, vacuum tubes, solid-state devices, and principles of data processing. Version 2: Includes applied mathematics, DC and AC circuit analysis, vacuum tubes, and solid-state devices.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics (12/68). Version 3: See explanatory note at the beginning of the Air Force section.

AF-1715-0022
AIRCRAFT INERTIAL AND RADAR NAVIGATION SYSTEMS REPAIRMAN (RF-4C SUPPLEMENT)
Course Number: 3AB30154-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 13 weeks (390 hours).
Exhibit Dates: 6/68-12/73.
Objectives: To train enlisted personnel to install, inspect, maintain, and repair inertial and radar navigation systems.
Instruction: Lectures and practical exercises in aircraft inertial and radar guidance systems installation, maintenance, and repair, including aircraft guidance equipment operating principles, block-diagram and circuit analysis, electronic wave-shaping circuit analysis, and system maintenance and repair procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic
AF-1715-0023
AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/CPS-6B AND AN/ FPS-6)
(AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/CPS-6B AND IFF))

Course Number: AB3032ED
Location: 3380th Technical School, Keesler AFB, MS.
Length: 29-39 weeks (870-1080 hours).
Exhibit Dates: 6/72-12/73.

Objectives: To train enlisted personnel to perform elementary maintenance and repair on aircraft control and early warning radar equipment.

Instruction: Lectures and practical exercises in soldering; wiring; use of multimeter, oscilloscope, and TV instruments; diodes, triodes, tubes, and transistors; calibration, video, tuned, and push-pull amplifiers; amplitude modulation and detection; and various troubleshooting techniques and equipment usage. Much of the material in this course has been outdated by recent advances in semiconductor devices; its transfer value is in DC and AC circuits, mutual skills, and troubleshooting techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

AF-1715-0025
AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/CPS-6B AND AN/ FPS-6)

Course Number: AB3032ED
Location: 3380th Technical School, Keesler AFB, MS.
Length: 29-39 weeks (870-1080 hours).
Exhibit Dates: 6/72-12/73.

Objectives: To train enlisted personnel to perform elementary maintenance and repair on aircraft control and early warning radar equipment.

Instruction: Lectures and practical exercises in soldering; wiring; use of multimeter, oscilloscope, and TV instruments; diodes, triodes, tubes, and transistors; calibration, video, tuned, and push-pull amplifiers; amplitude modulation and detection; and various troubleshooting techniques and equipment usage. Much of the material in this course has been outdated by recent advances in semiconductor devices; its transfer value is in DC and AC circuits, mutual skills, and troubleshooting techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).
AF-1715-0029

AIRBORNE EARLY WARNING RADAR REPAIRMAN (AN/APS-45)

Course Number: AB30132B
Location: 3380th Technical School, Keesler AFB, MS.
Length: 27 weeks (810 hours).
Exhibit Dates: 3/55-12/68.
Objectives: To train enlisted personnel to perform, elementary maintenance on the early warning radar equipment.

Instruction: Lectures and practical exercises in the installation, check-out, and repair of early warning radar equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in precision photoprocessing laboratory (11/77).

AF-1715-0030

ELECTRONIC COMPUTER PRINCIPLES, FYQ-47 PREPARATORY (RADAR PRINCIPLES)

Course Number: 3AQR30520-3.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS; 3380th Technical School, Keesler AFB, MS.
Length: 600-615 hours.
Exhibit Dates: 1/77-12/73.
Objectives: To provide enlisted personnel, with an introduction to radar principles as a prerequisite for radar equipment servicing courses.

Instruction: Lectures and practical exercises in basic AC, DC, and RLC circuit principles; solid-state amplifiers, power supplies, and applications in wave generation; electron tube principles and applications; computer logic and components; maintenance management; and computer and radar principles and their application to specific equipment maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category: 6 semester hours in basic electronic circuits (3/74); in the upper-division baccalaureate category: 3 semester hours in electronics as an elective in technical subjects (3/74).

AF-1715-0031

AIR/GROUND 50-KHZ EQUIPMENT

Course Number: 3AZR30454-5.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 47 weeks (64 hours).
Exhibit Dates: 6/73-12/73.
Objectives: To train enlisted personnel to repair and maintain communications equipment.

Instruction: Lectures and practical experience in receiver analysis, solid-state devices, and transmitter alignment and repair.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-1715-0035

**ELECTRONIC COMPUTER SYSTEMS**

**REPAIRMAN (RCC-EDLC/465L)**

**Course Number:** 3ABR30534B-1

**Location:** 3380th Technical School, Keesler AFB, MS.

**Length:** 33 weeks (990 hours).

**Exhibit Dates:** 6/72-12/73.

**Objectives:** To train enlisted personnel to maintain electronic computer systems.

**Instruction:** Lectures and practical exercises in system theory and operation, computer technology, computer logic, computer circuitry, computer organization, and system maintenance.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in computer sciences.

**AF-1715-0036**

**HN-10 MUX/O MAINTENANCE**

**Course Number:** 3AZR30554-9

**Location:** 3380th Technical School, Keesler AFB, MS.

**Length:** 4 weeks (120 hours).

**Exhibit Dates:** 9/7-12/73.

**Objectives:** To train electronic equipment repairmen to maintain PN-10 multiplexing equipment at the organizational and intermediate level.

**Instruction:** Lectures and practical exercises in TSEC/HN-10 data multiplex auxiliary equipment, communication equipment, communication transmitter, communication receiver, communication transmission equipment, and system maintenance.

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

**AF-1715-0037**

**GUIDANCE CONTROL OFFICER**

**(COMPUTER)(SM-68)**

**Course Number:** OTC3044-5

**Location:** 3750th Technical School, Sheppard AFB, TX.

**Length:** 7 weeks (210 hours).

**Exhibit Dates:** 2/61-12/68.

**Objectives:** To train officers to operate and maintain WS-107A-2 guidance computers.

**Instruction:** Lectures and practical exercises in number systems, boolean algebra, programming techniques, and equipment applicable to the WS-107A-2 guidance computer.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in computer technology (3/74); in the upper-division baccalaureate category, 1 semester hour in digital computers (3/74).

**AF-1715-0038**

**TELEPHONE SWITCHING EQUIPMENT REPAIRMAN, ELECTROMECHANICAL**

**Course Number:** 3ABR36231

**Location:** 3750th Technical School, Sheppard AFB, TX.

**Length:** 1 week (26 weeks (762 hours).

**Exhibit Dates:** Version 1: 3/78-12/73.

**Objectives:** To train enlisted personnel in the installation, repair, and maintenance of telephone equipment.

**Instruction:** Lectures and laboratories in DC and AC circuits, AC motors and synchronous, solid-state power supplies and amplifiers, and relays and stepping switches.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electronics (3/74).

**AF-1715-0039**

**SOLID STATE DEVICES AND DIGITAL TECHNIQUES**

**Course Number:** 3ABR30473

**Location:** 3380th Technical School, Keesler AFB, MS.

**Length:** 16 weeks (480 hours).

**Exhibit Dates:** 9/60-12/68.

**Objectives:** To train enlisted personnel to operate and maintain single-sideband communications systems.

**Instruction:** Lectures and laboratories in electronics principles and circuit analysis, troubleshooting, and maintenance techniques, and testing, alignment, and repair of single-sideband transmitting and receiving equipment.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 1 semester hour in electronic principles and circuit analysis (3/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics (12/68).

**AF-1715-0040**

**GUNLAYING SYSTEM MECHANIC, B-47**

**Course Number:** AB3Z330C

**Location:** 3415th Technical School, Lowry AFB, CO.

**Length:** 26 weeks (780 hours).

**Exhibit Dates:** 8/54-12/68.

**Objectives:** To train enlisted personnel to isolate unit malfunctions and to perform organizational and field maintenance on turret assemblies, including gunlaying radars.

**Instruction:** Lectures and laboratories in fundamentals of DC and AC circuits, vacuum and gas-filled tubes, power supplies, voltage regulators, amplifiers, oscillators, oscilloscopes, and radar system components and circuits.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 5 semester hours in semiconductors and digital systems (3/74); in the upper-division baccalaureate category, 1 semester hour in digital systems (3/74).

**AF-1715-0041**

**GUNLAYING SYSTEM MECHANIC, B-36**

**Course Number:** AB3Z330B

**Location:** 3415th Technical School, Lowry AFB, CO.

**Length:** 28 weeks (840 hours).

**Exhibit Dates:** 8/54-12/68.

**Objectives:** To train enlisted personnel to isolate unit malfunctions and to perform organizational and field maintenance on turret system assemblies, including gunlaying radars.

**Instruction:** Lectures and laboratories in fundamentals of DC and AC circuits, vacuum and gas-filled tubes, power supplies, voltage regulators, amplifiers, oscillators, oscilloscopes, and radar system components and circuits.

**Credit Recommendation:** 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 electricity or electronics, and credit in electronic laboratory on the basis of institutional evaluation (3/74).

**AF-1715-0042**

**SOLID STATE DEVICES AND DIGITAL TECHNIQUES**

**Course Number:** 3AZR30070-003

**Location:** School of Applied Aerospace Sciences, Keesler AFB, MS.

**Length:** 5 weeks (152 hours).

**Exhibit Dates:** 7/73-12/73.

**Objectives:** To train enlisted personnel in the principles of solid-state devices and digital techniques.

**Instruction:** Lectures and practical exercises in solid-state devices, parameters, integrated circuits, number systems, logic functions and circuits, counters, registers and A-D converters.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 5 semester hours in semiconductors and digital systems (3/74); in the upper-division baccalaureate category, 1 semester hour in digital systems (3/74).

**AF-1715-0043**

**SOLID STATE DEVICES AND DIGITAL TECHNIQUES**

**Course Number:** 3AZR30070-002

**Location:** School of Applied Aerospace Sciences, Keesler AFB, MS.

**Length:** 2-3 weeks (74 hours).

**Exhibit Dates:** 7/73-12/73.

**Objectives:** To provide maintenance personnel who have had prior DC, AC, and vacuum tube circuitry experience with advanced training in the principles of solid-state devices.

**Instruction:** Lectures and practical exercises in theory of solid-state devices, types and parameters, and integrated circuits.
AF-1715-0044
SOLID STATE DEVICES AND DIGITAL TECHNIQUES
Course Number: 3AZR30070-001
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 2-3 weeks (78 hours).
Exhibit Dates: 7/73-12/73.

Objectives: To train enlisted personnel in digital techniques.

Instruction: Lectures and practical exercises in number system logic functions and circuits, counters, registers, and A-D converters.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in digital systems (3/74).

AF-1715-0047
TELECOMMUNICATIONS SYSTEMS CONTROL SPECIALIST/ATTENDANT

Course Number: Version 1: 3ABR3070 Version 2: 3ABR3070
Version 3: 3ABR3070
Location: ± 3380th Technical School, Keesler AFB, MS.

Objectives: To train airmen to install and repair telecommunications control equipment.

Instruction: Lectures and practical exercises in fundamentals of AC and DC circuits; motors, synchronizers, basic tube and transistor theory, power supplies, amplifiers, and radio circuits.

Credit Recommendation: All Versions: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (12/68).

AF-1715-0050
AUTOMATIC CENTRAL OFFICE EQUIPMENT REPAIRMAN

Course Number: AL36231
Location: 3450th Technical School, Warren AFB, WY.
Length: 13 weeks (390 hours).
Exhibit Dates: 12/54-12/68.

Objectives: To train enlisted personnel to install and maintain automatic dial central office telephone exchange equipment.

Instruction: Lectures and practical exercises in fundamentals of automatic telephone, relay and switch adjustment, circuit analysis of the automatic central office, and trunking and routing of the automatic central office.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in telephony (3/74).

AF-1715-0051
STRAWHAT MESSAGE PROCESSING MAINTENANCE

Course Number: 3AZR30650F-1
Location: 3380th Technical School, Keesler AFB, MS.
Length: 19 weeks (570 hours).
Exhibit Dates: 10/71-12/73.

Objectives: To train enlisted personnel in the maintenance and repair of specific message processing systems.

Instruction: Lectures and practical experience in data control circuits, logic analysis, series-to-parallel converters, and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electromechanical devices (3/74).

AF-1715-0052
HM4118 COMPUTER DISPLAY EQUIPMENT (407L)

Course Number: 3AZR30554-1
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 15 weeks (438 hours).
Exhibit Dates: 11/72-12/73.

Objectives: To train enlisted personnel in the repair and maintenance of specific computer display systems.

Instruction: Lectures and practical experience in system's characteristics, analysis and maintenance of secondary surveillance radar systems, display controllers, automatic data link and display systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in computer systems (3/74).

AF-1715-0053
STRAWHAT MAINTENANCE

Course Number: 3AZR3055-1
Location: 3380th Technical School, Keesler AFB, MS.
Length: 18 weeks (540 hours).
Exhibit Dates: 8/70-12/73.
AF-1715-0054
F-111 CADC TEST STATION TECHNICIAN
Course Number: 3ARL32571-
Location: 34th Technical School, Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/68-12/73.
Objectives: To train enlisted personnel to provide, support, and maintain 465L computer system operation, including logic symbology and computer alarms and manual control, memories, cores and drums, digital display generators, output control and storage, peripheral input/output devices, and computer systems maintenance. Additional instruction in electronic fundamentals for digital data processing equipment repairmen, including DC/AC circuits, digital techniques, circuit logic, and aerospace computer equipment usage.
Credit Recommendation: No credit because of the military nature of the course (3/74).

AF-1715-0055
407L WEAPONS CONTROLLER
Course Number: 3OLR1744F.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 2 weeks (60 hours).
Exhibit Dates: 11/72-12/73.
Objectives: To train weapon controllers to operate weapons control systems at 407 CRC/CPR sites.
Instruction: Lectures and laboratories in operation of surveillance and weapon systems familiarization.
Credit Recommendation: No credit because of the military nature of the course (3/74).

AF-1715-0056
AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/GPA-37)
Course Number: AB30332H.
Location: 33080 Technical School, Keesler AFB, MS.
Length: 3 weeks (960 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train enlisted personnel to repair and maintain aircraft control and warning systems.
Instruction: Lectures and laboratories in DC and AC circuits, electron tubes, power supplies, amplifiers and oscillators, basic computer circuits and techniques, and familiarization with radar, course-directing equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68).

AF-1715-0057
1. ELECTRONIC COMPUTER SYSTEMS REPAIRMAN (DPC/SACCS)
2. ELECTRONIC COMPUTER REPAIRMAN (DPC/SACCS)
3. ELECTRONIC COMPUTER REPAIRMAN (DPC/465L)
Course Number: Version 1: 3ABR3053A.
Version 2: 3ABR30533A.
Version 3: 3ABR30534A.
Location: 1. School of Applied Aerospace Sciences, Keesler AFB, MS. All Versions: 33080 Technical School, Keesler AFB, MS.
Objectives: To train enlisted personnel to be electronic computer systems repairman.
Instruction: All Versions: Lectures and practical exercises in electronic computer systems repair, including electronic and data processing principles, malfunction analysis, maintenance, digital techniques, circuit logic, and aircraft ground equipment usage. Version 1: Instruction includes SACCS computer system operation, maintenance, and maintenance management. Version 2: Instruction includes digital techniques, circuit logic, and aircraft ground equipment usage. Version 3: Instruction includes 465L computer system equipment, digital techniques, circuit logic, and aircraft ground equipment component malfunction isolation and repair.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in computer maintenance (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in computer maintenance, and additional credit in computer maintenance on the basis of institutional evaluation (3/74). Version 3: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics, and credit in electrical laboratory (3/74). In the upper-division baccalaureate category, 3 semester hours in computer science (3/74).

AF-1715-0058
1. ELECTRONIC COMPUTER SYSTEMS REPAIRMAN (FSQ-7/SAGE)
2. ELECTRONIC COMPUTER REPAIRMAN (SAGE AN/FQS-7)
(ELECTRONIC DIGITAL COMPUTER REPAIRMAN (SAGE AN/FQS-7))
Course Number: Version 1: 3ABR30534A.
Version 2: 3ABR30533A.
Version 3: 3 ABR3053-1.
Objectives: To provide airmen with the knowledge of computer organization, and internal programming necessary to perform maintenance and repair on the SAGE FSQ-7 electronic computer.

AF-1715-0059
ELECTRONIC COMPUTER REPAIRMAN (DISPLAY EQUIPMENT/412L)
(ELECTRONIC DIGITAL COMPUTER REPAIRMAN (DISPLAY EQUIPMENT/412L))
Course Number: ABR30533-5.
Location: 33080 Technical School, Keesler AFB, MS.
Length: 3 weeks (450 hours).
Exhibit Dates: 3/64-12/68.
Objectives: To train enlisted personnel to inspect and maintain display equipment associated with 412L air weapons control system.
Instruction: Lectures and laboratories in electronic and data processing principles, AWCS 412L, familiarization, application and operation of test equipment, maintenance management, circuit analysis, and troubleshooting procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the baccalaureate category, 4 semester hours as an elective in electricity and electronics.
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and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0060
AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN
(AN/FPS-18, AN/FRS-1, AN/FSW-1)
AN Course Number: AB30332-F
Location: 3380th Technical School, Keesler AFB, MS.
Length: 37 weeks (1020 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train enlisted personnel to operate, tune, align, inspect, and maintain aircraft control and warning radar equipment and associated quantizing and video equipment.
Instruction: Lectures and laboratories in DC and AC circuit analysis, magnetism, vacuum tube and solid-state devices, transmitters and receiver principles, equipment maintenance, and troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electronics and computers (3/74).

AF-1715-0063
ELECTRONIC COMPUTER REPAIRMAN
(EDTCC/465L)
AN Course Number: ABR30533-9
Location: 3380th Technical School, Keesler AFB, MS.
Length: 19 weeks (570 hours).
Exhibit Dates: 6/64-2/68.
Objectives: To train enlisted personnel to operate, inspect, and maintain electronic data transmission control center computer equipment.
Instruction: Lectures and laboratories in system and computer subjects, including power supplies operation principles, digital techniques, circuit logic, maintenance concepts, test routines, malfunction analysis, isolation and repair of computers, and use of aerospace ground equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68).

AF-1715-0061
ELECTRONIC ANALOG DATA PROCESSING EQUIPMENT REPAIRMAN
AN Course Number: ABR30130.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 35 weeks (960 hours).
Exhibit Dates: 9/58-12/68.
Objectives: To train enlisted personnel to operate, inspect, and maintain radar systems and related test equipment.
Instruction: Lectures and laboratories in AC and DC circuits, circuit analysis, electronics, power supplies, and troubleshooting procedures. Much of the course material is obsolete, dealing primarily with vacuum tubes and their applications. However, some credit should be given in the areas of basic circuits, laboratories, hand skills, circuit analysis, and troubleshooting.
Credit Recommendation: 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 as a technical elective in electronics (3/74).

AF-1715-0062
AN/FYYO-45 AND AN/FYA-38 MAINTENANCE
AN Course Number: 2ASR10573-4.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 10 weeks (312 hours).
Exhibit Dates: 2/69-12/73.
Objectives: To train enlisted personnel to maintain operations control consoles and computer interface buffers used with the Air Force integrated command and control system.
Instruction: Lectures and practical exercises on computer programing, central processors, static and dynamic displays, input/output equipment, system maintenance, and troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computers (3/74); in the upper-division baccalaureate category, 3 semester hours as a technical elective in computer subjects (3/74).

AF-1715-0064
1. AIRCRAFT CONTROL AND WARNING RADAR TECHNICIAN
2. AIRCRAFT CONTROL AND WARNING RADAR MAINTENANCE TECHNICIAN
3. AIRCRAFT CONTROL AND WARNING RADAR MAINTENANCE TECHNICIAN

Course Number: Version 1: AAR30372.
Version 2: AAR30372.
Version 3: AAR30372.
Location: 3380th Technical School, Keesler AFB, MS.
Objectives: To provide enlisted personnel with elementary theory and test procedures to enable them to repair and maintain aircraft control and warning radar equipment.
Instruction: All Versions: Lectures and practical experience in aircraft control and warning radar manual and facilities, power supply regulation and distribution, trigger generation, transmitters, oscillators and amplifiers at radar frequencies, microwave plumbing, antenna design and control, system alignment, anti-jamming devices, MTI receivers, interference elimination, PPI systems and alignment procedures, range-height indicator systems, countermeasure monitors and receivers, IFF systems. Version 2: Includes additional circuit analysis, transformer ratings and performance, power supplies, rectifiers, filters, regulators, vacuum tube characteristics, timing circuits, integrator and differentiator circuits, pulse-forming networks, rf transmission lines, matching stubs, duplexer, servos and resolvers, radar, test sets, synchroscopes, troubleshooting, shop manuals, supervision, planning, and alignment. Version 3: Includes additional laboratory-type testing, calibration and measurement procedures on radar transmitter and receiver apparatus, frequency, bandwidth, spectral distribution, noise levels, shop management and supervision.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68), 3 as an elective in electronics (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68), 3 as an elective in electronics (3/74). Version 3: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68), 2 as an elective in electronics (3/74).

AF-1715-0065
1. AIRCRAFT RADIO REPAIRMAN
2. AIRCRAFT RADIO REPAIRMAN
(COMMUNICATIONS)
3. AIRCRAFT RADIO REPAIRMAN
(GENERAL)
4. AIRCRAFT RADIO REPAIRMAN
(GENERAL)

Location: 3380th Technical School, Keesler AFB, MS.
Objectives: To train enlisted personnel to operate, tune, align, maintain, and repair airborne communications equipment and related test equipment.
Instruction: All Versions: Lectures and practical experience in airborne communications equipment including power supplies operation principles and troubleshooting procedures; the frequency spectrum; resonance, magnetism principles; transformers and vacuum tubes operation, operation and maintenance of video and push-pull amplifiers, oscillators, AM modulators, superheterodyne receivers, and transmission lines and antennas; familiarization with volts, ohms, and millimeters, use of oscilloscopes, and soldering techniques. Emphasis is on aircraft navigational equipment alignment, calibration, troubleshooting, and repair. Version 1: Instruction includes principles of solid-state devices, FM modulation, discriminators, and signal sideband. Version 2: Instruction includes minimal theoretical material and emphasizes aircraft radio system maintenance, troubleshooting, and repair. Version 3: Instruction includes principles of FM modulation, discriminators, pulse modulation, and principles of electronics. Version 4: Instruction includes principles of FM modulation, discriminators, pulse modulation, and principles of electronics.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68), 3 as an elective in electronics (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68), 3 as an elective in electronics (3/74). Version 3: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in business organization and management (12/68), 2 as an elective in electronics (3/74).
 Af-1715-0066

AIRCRAFT RADIO REPAIRMAN (COMMAND)

Course Number: AB30130A-2.
Location: 3380th Technical School, Keesler AFB, MS.

Length: 25 weeks (750 hours).
Exhibit Dates: 8/55-12/68.

Objectives: To train enlisted personnel to operate, tune, align, maintain, and repair airborne communications equipment and related test equipment.

Instruction: Lectures and practical experience in principles of electricity and magnetism; alternating current; vacuum tubes, power supplies, and voltage regulators; amplifiers and oscillators; modulation, detection, and receiver kit construction; special circuits; generation, and propagation of microwave and high-frequency energy and synchrons; and practical applications of electrical fundamentals to communications equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (3/74).

AF-1715-0067

AIRCRAFT RADIO REPAIRMAN (COMMAND)

Course Number: AB30130A.
Location: 3310th Technical School, Scott AFB, IL.

Length: 20 weeks (600 hours).
Exhibit Dates: 6/55-12/68.

Objectives: To train enlisted personnel to install, maintain, and repair airborne communication and related navigation equipment.

Instruction: Lectures and laboratories in aircraft command radio and associated equipment; UHF and VHF command equipment; aircraft emergency equipment; aircraft command radio equipment systems line maintenance; and familiarization with voltmeters, ohmmeters, ammeters, millimeters, wattmeters, oscilisocopes, and tube testers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0068

AIRCRAFT RADIO REPAIRMAN (COMMAND)

Course Number: AB30130A.
Location: 3310th Technical School, Scott AFB, IL.

Length: 20 weeks (600 hours).
Exhibit Dates: 6/55-12/68.

Objectives: To train enlisted personnel to install, maintain, and repair airborne communication and related navigation equipment.

Instruction: Lectures and laboratories in aircraft command radio and associated equipment; UHF and VHF command equipment; aircraft emergency equipment; aircraft command radio equipment systems line maintenance; and familiarization with voltmeters, ohmmeters, ammeters, millimeters, wattmeters, oscilisocopes, and tube testers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0069

AIRCRAFT RADIO REPAIRMAN (NAVIGATIONAL)

Course Number: Version 1: AB30130C.


Objectives: To train enlisted personnel to test, troubleshoot, and maintain airborne navigational equipment.

Instruction: All Versions: Lectures and practical experience in navigational equipment maintenance, testing, and troubleshooting, including schematic diagrams familiarization; AC nomenclature; series and parallel DC circuits and motors, principles of magnetism, resonance, and time constants; transformers and vacuum tube power supplies operation and troubleshooting; audio and video amplifiers; oscillators; AM and FM modulation; superheterodyne receivers and wave shaping circuits; familiarization with voltmeters, ohms, and milliameters; and soldering techniques. Emphasis is on alignment, calibration, and repair of aircraft navigational equipment. Version 3 includes familiarization with semiconductor devices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory on the basis of institutional evaluation (3/74).

AF-1715-0070

USAF SECURITY SERVICE SYSTEMS MAINTENANCE TECHNICIAN (INTERCEPT SYSTEMS MAINTENANCE TECHNICIAN) (USAFSS SYSTEMS MAINTENANCE TECHNICIAN)

Course Number: SAZK3047A.
Location: Security Service School, Goodfellow AFB, TX.

Length: 28 weeks (1080 hours).
Exhibit Dates: 4/84-12/75.
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Objectives: To train maintenance personnel to perform maintenance on demultiplexers, decoders, recorders, display equipment, and r-f receivers.

Instruction: Lectures and practical experience in AC circuit fundamentals, DC series and parallel circuits, resonance, filters, feedback, circuits, solid-state devices, analog circuits, binary logic, switches, multivibrators, power supplies, line drivers, and other equipment. Receivers; Demodulators; Recorder; Receiver; and Off-Receiver; Detectors; R-f plumbing; System components; Functions; Circuit troubleshooting with oscilloscope. Emphasis is on demultiplexer, detector, recorder, receiver, and display equipment performance, operation, maintenance, troubleshooting, and repair techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics, laboratory, and on the basis of institutional evaluation, additional credit in electronics theory (3/74).

AF-1715-0071

AN/GPA: 133 O/I Maintenance

Course Number: 2AZR30455

Location: School of Applied Aerospace Sciences, Keesler AFB, MS.

Length: 4-5 weeks (120-132 hours).

Exhibit Dates: 7/73-12/73.

Objectives: To train experienced technicians to maintain and repair closed-circuit television systems.

Instruction: Lectures and practical exercises in closed-circuit television maintenance and repair, including review of semiconductor devices and circuits, introduction to integrated circuits, circuit analysis, and video amplifier, sync generator, and sweep generator circuit operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electronics (3/74).

AF-1715-0073

TELEGRAPH TRANSMISSION EQUIPMENT REPAIRMAN

Course Number: 2AZR36330B

Location: 375th Technical School, Shippard AFB, TX.

Length: 3 weeks (90 hours).

Exhibit Dates: 9/61-12/68.

Objectives: To train enlisted personnel to maintain, install, and repair telegraph transcription equipment.

Instruction: Lectures and laboratories in operation of telegraph telescriptors, theory of operation of receivers and transmitters, circuit operation and analysis, troubleshooting, maintenance, and comparison of transmitters and vacuum tube systems. Student uses circuit schematics and wiring diagrams, hand tools, special tools, and standard test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (3/74).

AF-1715-0074

INTERMEDIATE AND ORGANIZATIONAL MAINTENANCE IN TSEC/HY-2, SBEHIT-24 MODEM, CRYPTO CONTROL UNIT, AND DIGITAL SUBSET

Course Number: 2AZR30650-2

Location: 3275th Technical School, Lackland AFB, TX.

Length: 11 weeks (327 hours).

Exhibit Dates: 7/70-12/73.

Objectives: To train enlisted personnel to maintain and troubleshoot specific equipment, associated with cryptographic systems.

Instruction: Lectures and laboratories in electronic fundamentals, with emphasis on qualitative description; troubleshooting, with emphasis on stereotyped procedures for specific control units, digital subsets, and test equipment, and use of test equipment, including oscilloscopes, multimeters, and signal generators.

Credit Recommendation: 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 category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0075

ANT/GC-14(V) TELETYPEWRITER 1 & 0 MAINTENANCE

Course Number: 3AZR3650-1

Location: 375th Technical School, Shippard AFB, TX.

Length: 3 weeks (90 hours).

Exhibit Dates: 5/70-12/73.

Objectives: To train airmen to maintain the mechanical and electrical components of AN/TGC-14 teletypewriter sets.

Instruction: Lectures and practical exercises in the operational and mechanical analysis of equipment, mechanical adjustments, troubleshooting procedures, and repair and replacement of defective parts.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in mechanical laboratory (3/74).

AF-1715-0076

COMMUNICATIONS SYSTEMS OFFICER

Course Number: 3OBRS021

Location: 3380th Technical School, Keesler AFB, MS.

Length: 31 weeks (930 hours).

Exhibit Dates: 8/55-12/68.

Objectives: To train officers as communications systems officers.

Instruction: Lectures on electronic principles, use of technical publications, communications-electronics planning, programming, and management, communications security; and supervision and management of operations.

Credit Recommendation: Insufficient data for evaluation (3/74).

AF-1715-0077

1. SPECIAL MAINTENANCE 6185-1 SYSTEM
2. COLLINS 185-4 RADIO SET

Course Number: Version 1: SS30170-12


Location: 3310th Technical School, Scott AFB, IL.

Length: Version 1: 4 weeks (120 hours).

Version 2: 3 weeks (90 hours).

Exhibit Dates: Version 1: 8/55-12/68.


Objectives: To train technicians to maintain, inspect, and repair the Collins HF liaison transceiver and antenna coupler.

Instruction: Lectures and practical exercises in familiarization with liaison radio system 6185-1, including operation and function, circuit analysis, troubleshooting procedures, maintenance, and performance testing.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-1715-0078

1. SPECIAL TRAINING, AN/ARC-21 HF Liaison Equipment
   (Special Radio Maintenance Technician HF Liaison Equipment AN/ARC-21)

2. SPECIAL Radio Maintenance Technician HF Liaison Equipment AN/ARC-21

Course Number: SS30170-6
Location: 3310th Technical School, Scott AFB, IL.
Length: Version 1: 6 weeks (180 hours).
Version 2: 5 weeks (150 hours).
Objectives: To train airmen to perform required inspections, field and depot repairs, and maintenance on AN/ARC-21 liaison equipment.

Instruction: Lectures and practical exercises in the maintenance of electronic equipment and systems, including maintenance, repair, and troubleshooting using standard test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory on the basis of institutional evaluation (3/74).

AF-1715-0079

Radio Relay Equipment Repairman

(Radio Relay Equipment Repairman (FPTS))
(Radio Relay Equipment Repairman (FPTS) (AN/FRC-39 and AN/FRC-39A))

Course Number: A2R30450; A2R30453-1
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4-7 weeks (120-210 hours).
Exhibit Dates: 9/60-12/68.
Objectives: To train radio equipment repairmen to maintain, operate, and repair forward propagation tropospheric scatter equipment.

Instruction: Lectures and practical exercises in the maintenance of electronic equipment and systems, including maintenance, repair, and troubleshooting using standard test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory on the basis of institutional evaluation (3/74).

AF-1715-0081

Special Radio Maintenance Technician, AN/TRC-24 Radio Receiver Set

Course Number: SS30470A-16
Location: 3310th Technical School, Scott AFB, IL.
Length: 5 weeks (150 hours).
Exhibit Dates: 8/58-7/59.
Objectives: To train radio maintenance technicians to maintain and repair the AN/TRC-24 radio transmitter.

Instruction: Lectures and practical exercises in the maintenance and repair of the AN/TRC-24 radio transmitter.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics on the basis of institutional evaluation (3/74).

AF-1715-0083

Special Radio Maintenance Technician, AN/MRN-7 and AN/MRN-8 Instrument Landing System

Course Number: SS30470B-12
Location: 3310th Technical School, Scott AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/56-12/68.
Objectives: To train radio maintenance personnel to install, maintain, and repair AN/MRN-7 and AN/MRN-8 instrument landing system equipment.

Instruction: Lectures and practical exercises in the maintenance and repair of the AN/MRN-7 and AN/MRN-8 instrument landing system equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics on the basis of institutional evaluation (3/74).
COURSE EXHIBITS

AF-1715-0086
DEFENSIVE SYSTEM TRAINER SPECIALIST

Course Number: 3ALR82451B-1, ALR34251B-1

Location: 3380th Technical School, Keesler AFB, MS.

Length: 12 weeks (360 hours).

Exhibit Dates: 7/64-12/73.

Objectives: To train enlisted personnel with basic electronics backgrounds to operate and maintain the T-4 electronic countermeasures trainer.

Instruction: Lectures and laboratories in TV simulator functions for AM, FM, ICW, IF, and radar; programmer controls; tubes, including biasing methods and types; amplifiers, including audio, video, push-pull, and paralhase amplifiers, their classes of operation and methods of coupling; R-C networks; CRTs, transistors, including construction, symbols, biasing, voltage nomenclature, and CB, CE, and CC amplifiers; oscillators; multivibrators, including astable, bistable, and timer-operated devices; practical application of electronics to maintenance and repair of electronic equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0087
MANUAL CENTRAL EQUIPMENT SPECIALIST


Objectives: To prepare and train enlisted personnel to maintain and repair central office telephone equipment.

Instruction: Lectures and practical experience in basic AC and DC circuits, central office telephone servicing techniques, and specific central office telephone equipment maintenance techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in telephony, 1 in telephony laboratory (3/74).

AF-1715-0088
GROUND RADIO COMMUNICATIONS EQUIPMENT TECHNICIAN

Course Number: AAR30474.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 39 weeks (1170 hours).

Exhibit Dates: 12/63-12/68.

Objectives: To train enlisted personnel to install, maintain, and repair communications equipment.

Instruction: Lectures and laboratories in applied mathematics; AC and DC circuits; vacuum tubes and solid-state devices; power supplies; oscillators; digital data processing; and analysis, maintenance, and repair of various functional electrical circuits.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics (3/74), 2 in shop management (12/68), and additional credit in electrical and radio laboratory on the basis of institutional evaluation (3/74).

AF-1715-0089
OPERATION AND MAINTENANCE OF MD-1 ASTRO COMPASS TEST EQUIPMENT

Course Number: ATS42532-22.

Location: 3345th Technical School, Chanute AFB, IL.

Length: 10 weeks (300 hours).

Exhibit Dates: 9/61-12/68.

Objectives: To train maintenance personnel in MD-1 astrocompass test equipment operation and maintenance.

Instruction: Lectures and practical exercises in astrocompass test equipment operation and maintenance, including description, calibration, and certification of amplifier subassembly tester, various amplifier tests and equipment required; and gyro, astrotacker, and altitude-azimuth computer tests and test equipment operation.

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

AF-1715-0090
CALIBRATION AND MAINTENANCE OF THE SHAW-ESTES TEST STAND

Course Number: SS42250-27.

Location: 3345th Technical School, Chanute AFB, IL.

Length: 3 weeks (90 hours).

Exhibit Dates: 5/58-12/68.

Objectives: To provide maintenance and instructor personnel with training on the Shaw-Estes test stand.

Instruction: Lectures and practical exercises in test facility familiarization; constructional details and analysis of pyrometer potentiometer operation; preventive maintenance, trouble analysis, and calibrations; and operation, test, and adjustment of strobochek, talippe pyrometer, and vibration meter.

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

AF-1715-0091
AIRBORNE WEATHER EQUIPMENT TECHNICIAN

Course Number: SS25170-3.

Location: 3345th Technical School, Chanute AFB, IL.

Length: 5 weeks (150 hours).

Exhibit Dates: 3/58-12/68.

Objectives: To prepare airmen for assignment to duty as airborne weather technicians.

Instruction: Lectures and practical exercises in airborne weather equipment, circuit analysis of radiosonde receiver AN/AMR-1 and radiosonde recorder AN/AMR-1, and alignment and calibration of airborne weather equipment.

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

AF-1715-0092
FB-111 CENTRAL AIR DATA COMPUTER (CADC) TEST STATION TECHNICIAN

Course Number: 3ALR35871.

Location: 3345th Technical School, Lowry AFB, CO.

Length: 5 weeks (162 hours).

Exhibit Dates: 2/69-12/73.

Objectives: To train enlisted personnel to repair Central Air Data Computer (CADC) test stations.

Instruction: Lectures and practical exercises in theory, operation, inspection, and verification of aerospace ground equipment data for performing maintenance; technical publications; ground safety; security; and corrosion control.
AF-1715-0093
JET ENGINE VIBRATION ANALYZER MAINTENANCE (SPERRY)
Course Number: ATS42350-63.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 10/61-12/68.
Objective: To train enlisted personnel to repair Sperry jet engine analyzer.
Instruction: Lectures and practical exercises in the description, installation, application, maintenance, and calibration of engine analyzer components, review of electronic principles; maintenance of analyzer circuits; and calibration of analyzers.
Credit Recommendation: No credit because of the limited specialized nature of the course (3/74).

AF-1715-0094
CONTROL SYSTEM TECHNICIAN/Mechanic (SM-65F)
Course Number: ATS31270P-5.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12 weeks (480 hours).
Exhibit Dates: 5/61-12/68.
Objective: To train enlisted personnel as control system mechanics.
Instruction: Lectures and practical exercises in binary arithmetic, transistor theory, Boolean algebra, computer logic, special circuit theory, amplifier theory, weapon system operational concepts, and flight control system basic theory and fundamentals.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics or computer technology (3/74); in the upper-division baccalaureate degree category, credit in electricity or electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0095
OPERATOR AND OPERATION MAINTENANCE OF AC SYSTEM TESTER, MODEL T-35
Course Number: ATS42350-57.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 5/59-12/68.
Objective: To train enlisted personnel in the operation and maintenance of T-35 tester.
Instruction: Lectures and practical exercises in panel checking, calibration equipment, troubleshooting, and aircraft electrical power systems testing.
Credit Recommendation: No credit because of limited specialized nature of the course (3/74).

AF-1715-0096
ELECTRONIC TEST EQUIPMENT CALIBRATION AND REPAIR (TEXTRONIX)
Course Number: AZR32470-1.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/66-12/68.
Objective: To train technicians in troubleshooting and malfunction-elimination techniques.
Instruction: Practical experience in electronic test equipment calibration and repair, circuit analysis, maintenance, and repair.
Credit Recommendation: No credit because of the limited technical nature of the course (3/74).

AF-1715-0097
CONTROL ROOM INSTRUMENTATION, JET ENGINE TEST FACILITY
Course Number: ATS42250-37.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 5/61-12/68.
Objective: To train key maintenance and instructor personnel in the instrumentation of jet engine test facilities.
Instruction: Lectures and practical experience in electrical principles; test facilities; and pyrometer potentiometer construction, circuit analysis, operational testing and adjustment, and preventive maintenance.
Credit Recommendation: No credit because of the limited specialized nature of the course (3/74).

AF-1715-0098
F-111 COMMUNICATIONS GUIDANCE TEST STATIONS TECHNICIAN
Course Number: ALR30170.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 13-16 weeks (390-480 hours).
Exhibit Dates: 6/66-12/68.
Objective: To train enlisted personnel as communications and guidance test stations technicians.
Instruction: Lectures and practical experience in electronics, shop management and maintenance, circuit analysis, and transmitter operation.
Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0099
AN/TSC-38B I/O MAINTENANCE
Course Number: 3AZR30454-14.
Location: 3300th Technical School, Keesler AFB, MS.
Length: 6 weeks (180 hours).
Exhibit Dates: 9/71-12/73.
Objective: To train enlisted personnel in AN/TSC-38B telephone system maintenance and troubleshooting techniques.
Instruction: Lectures and practical exercises in AN/TSC-38B telephone system maintenance and troubleshooting techniques.
Credit Recommendation: No credit because of limited specialized nature of the course (3/74).

AF-1715-0100
DIAL CENTRAL OFFICE EQUIPMENT SPECIALIST
Course Number: ABR36231-1; AB36231.
Location: Version 1: 3750th Technical School, Sheppard AFB, TX; Version 2: 3450th Technical School, Warren AFB, WY.
Length: 16 weeks (450 hours).
Exhibit Dates: 5/58-12/68.
Objective: To train airmen to test, maintain, and repair dial central office telephone equipment.
Instruction: Lectures and practical experience in electrical circuits fundamentals, automatic telephony and circuit analysis, central office equipment maintenance, and relay and switch adjustment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity, 1 in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electricity or electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0101
DIAL CENTRAL OFFICE EQUIPMENT MECHANIC/TECHNICIAN (SM-68)
Course Number: ATS36251-5.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3-4 weeks (120 hours).
Exhibit Dates: 4/61-12/68.
Objective: To train airmen to maintain and repair ballistic missile communications system equipment.
Instruction: Lectures and practical exercises in central office ballistic missile communications system equipment maintenance and repair, including weapon system and missile safety; circuit symbols; console, line, and pallet circuits and adapters; computer and radar maintenance; public address systems; amplifiers; relay introduction and adjustments; rotary switch adjustments; and testing and troubleshooting procedures.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0102
AUTOMATIC TELETYPY AND ELECTRONIC SWITCHING SYSTEMS REPAIRMAN (ELECTRONIC COMMUNICATIONS AND CRYPTOGRAPHIC SYSTEMS EQUIPMENT REPAIRMAN (AUTOMATIC TELETY))
Course Number: ABR3063A; ABR3063A.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 35-36 weeks (960-990 hours).
Exhibit Dates: 9/60-12/68.
Objective: To train enlisted personnel to perform corrective and preventive maintenance and repair on automatic teletype and electronic switching systems and equipment.
Instruction: All versions: Lectures and practical exercises in principles of electricity, including AC and DC circuits, motors, and rectifiers; vacuum tube circuits; amplifiers; basic pulse techniques; teletype system principles; and central office switching techniques. Version 1: Instruction includes basic semiconductor theory.
AF-1715-0103

AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/FPS-9 and AN/FPS-4)

AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/FPS-9 and AN/FPS-6 and IFF)

Course Number: ABR30332-3
Location: 3380th Technical School, Keesler AFB, MS
Length: 30 weeks (840 hours)
Exhibit Dates: 5/59-12/68
Objectives: To train enlisted personnel in the operation, tuning, alignment, inspection, organizational maintenance, and repair of aircraft control and warning radar equipment.

Instruction: Lectures and practical exercises in radar equipment operation, inspection, maintenance, and repair, including AC and DC circuit theory, electron tubes and power supplies, amplifiers, and oscillators, transistors, special circuits, including clipping, clamps, and multivibrators; radar microwave propagation; and special radar circuits and units.

Credit Recommendation: 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 electronics (12/68).

AF-1715-0104

AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/CPS-1, AN/CPS-4, AN/CPS-5 and IFF)

Course Number: ABR30332-2
Location: 3380th Technical School, Keesler AFB, MS
Length: 28 weeks (840 hours)
Exhibit Dates: 10/54-12/68
Objectives: To train enlisted personnel in the operation, tuning, alignment, inspection, organizational maintenance, and repair of aircraft control and warning radar equipment.

Instruction: Lectures and practical exercises in aircraft control and warning radar equipment operation, inspection, maintenance, and repair, including AC and DC circuit theory, electron tubes, and power supplies; amplifiers and oscillators, transistors; special circuits, including clippers, clamps, and multivibrators; radar microwave propagation; and special radar circuits and units.

Credit Recommendation: 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 electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0105

AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/FPS-8 and AN/FPS-4)

Course Number: ABR30332-3
Location: 3380th Technical School, Keesler AFB, MS
Length: 30 weeks (840 hours)
Exhibit Dates: 5/59-12/68
Objectives: To train enlisted personnel in the operation, tuning, alignment, inspection, organizational maintenance, and repair of aircraft control and warning radar equipment.

Instruction: Lectures and practical exercises in radar equipment operation, inspection, maintenance, and repair, including AC and DC circuit theory, electron tubes, and power supplies; amplifiers and oscillators, transistors; special circuits, including clippers, clamps, and multivibrators; radar microwave propagation; and special radar circuits and units.

Credit Recommendation: 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 electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).
AF-1715-0111

AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN, AN/FST-2

Course Number: ABR30332G
Location: 3380th Technical School, Keesler AFB, MS.
Length: 37-39 weeks (1020-1080 hours).

Objectives: To train enlisted personnel to install, check out, and maintain aircraft control and warning radar equipment.

Instruction: Lectures and practical exercises in AC and DC circuits, electronic circuit fundamentals, basic digital computer theory and circuits, microwave techniques, and measurements.

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

AF-1715-0112

BUIC III OPERATOR

Course Number: 3AZR27330.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 39 weeks (1080 hours).

Objectives: To train personnel to perform as surveillance operators at BUIC installations.

Instruction: Lectures and practical exercises in BUIC system fundamentals, positional operation of surveillance operator consoles, and operation of manual data equipment.

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

AF-1715-0113

BUIC III AIR SURVEILLANCE FOR RADAR INPUT COUNTERMEASURES OFFICER/TECHNICIAN

Course Number: 3OLR1741D-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 3-4 weeks (90-120 hours).

Objectives: To train personnel to perform as air surveillance officers at BUIC installations.

Instruction: Lectures and practical exercises in BUIC system fundamentals and air surveillance, weapons, and simulation operations.

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

AF-1715-0114

BUIC III OPERATOR

Course Number: 3AZR27630.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6 weeks (180 hours).

Objectives: To train enlisted personnel to perform as surveillance operators at BUIC installations.

Instruction: Lectures and practical exercises in BUIC system fundamentals, positional operation of surveillance operator consoles, and operation of manual data equipment.

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

AF-1715-0115

AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/FPS-20 AND AN/FPS-34)

Course Number: ABR30332C-2.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6 weeks (180 hours).

Objectives: To train airmen to operate, align, inspect, maintain, and repair AN/FPS-20 and AN/FPS-34 aircraft control and warning radar equipment.

Instruction: Lectures and practical experience in aircraft control and warning radar equipment operation, tuning, alignment, inspection, maintenance, and repair, including AC and DC circuit theory, electron tubes and power supplies, amplifiers and oscillators, transistors, radar microwave propagation, special circuits and units, and clippers, clamps, and multimeters.

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

AF-1715-0117

1. FIRE CONTROL SYSTEMS MECHANIC (F-100A/02/D/F/P: MA-3, AGS-17 SYSTEMS)

2. FIRE CONTROL SYSTEMS MECHANIC (MA-3, AGS-17 SYSTEMS)

3. FIRE CONTROL SYSTEMS MECHANIC (MA-1, MA-2, MA-3 SYSTEMS)

4. FIRE CONTROL SYSTEMS MECHANIC (MA-1, MA-2, MA-3 SYSTEMS)

Location: 3145th Technical School, Lowry AFB, CO.


Objectives: To train airmen to install, check, and maintain offensive fire control systems.

Instruction: All Versions: Lectures and practical exercises in low-altitude bombing systems, motors, and servomechanism principles, and radar principles, including transmitters, system components, maintenance, and troubleshooting procedures. Version 1: Instruction includes offensive fire control principles, including components, special tools, maintenance management, communication security, safety procedures, and sight system power supplies, adjustments, alignments, and troubleshooting procedures. Version 2: Instruction includes electricity fundamentals, including AC and DC circuits, vacuum tubes and transistors, and solid-state devices; amplifiers and oscillators; power supplies, motors, and servomechanisms; microwave principles; and pulse, reactive, multivibrator, sweep, and logic circuits. Version 3: Instruction includes bombing computers, sight system maintenance, repair, and troubleshooting analysis. Version 4: Instruction includes electricity fundamentals, including AC and DC circuits, vacuum gas-filled tubes, power supplies, and voltage regulators; amplifiers, oscillators, and sweep generators; oscilloscope; and radar system components, circuits, calibration, and maintenance.

Credit Recommendation: Version 1: Insufficient data for evaluation (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics and credit in electrical laboratories on the basis of institutional evaluation (3/74). Version 4: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (12/68).

AF-1715-0118

AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/TPS-1D, AN/TPS-2D)

(AIRCRAFT CONTROL AND WARNING RADAR REPAIRMAN (AN/TPS-1D, AN/TPS-2D AND TFP))

Course Number: ABR30332I-6.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 28-34 weeks (810-930 hours).

Exhibit Dates: 10/54-12/68.

Objectives: To train personnel to operate, maintain, and repair aircraft control and warning radar equipment.

Instruction: Lectures and laboratories in development and application of electronic principles, circuit theory, circuit testing, shop practices, performance logs, maintenance records, and system maintenance. Credit should be granted for circuit theory and analysis courses only.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68), in the upper-division baccalaureate category, 3 semester hours in electronics (3/74).

AF-1715-0119

DIGITAL SUBSCRIBER TERMINAL MAINTENANCE

Course Number: 3ALR20630F.
1-132 COURSE EXHIBITS

Location: 375th Technical School, Sheppard AFB, TX.
Length: 19 weeks (570 hours).
Exhibit Dates: 10/70-12/73.

Objectives: To train enlisted personnel to maintain electronic communications and cryptographic systems equipment.

Exhibit Exercises and practical exercises in logic circuits, operational analysis, troubleshooting, repair, and adjustment of digital subscriber terminal equipment.

4. RADIO RELAY EQUIPMENT REPAIRMAN

AE-1715-0120

1. RADIO RELAY EQUIPMENT REPAIRMAN (CARRIER AND ANTRAC EQUIPMENT)


Objectives: To train enlisted personnel to install, inspect, and maintain carrier and antrac radio relay equipment.

Instruction: Lectures and laboratories in digital subscriber terminal principles, frequency modulation theory, circuit analysis, circuit testing, shop practices, performance logs and maintenance records, simulated ground ECM operations, and electronic analysis of intercepted signals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics, 4 in electrical or electronics laboratory (3/74).


AF-1715-0122

RADIO RELAY EQUIPMENT REPAIRMAN (AN/TRC)

Course Number: Version 1: ABR30430C. Version 2: ABR30430C.


Objectives: To train enlisted personnel to operate and maintain ground electronic countermeasures receivers, panoramic adaptors, pulse analyzers, direction finders, cameras, recorders, and associated test equipment.

Instruction: Lectures and laboratories in development and application of electronic principles, circuit theory, circuit testing, shop practices, performance logs and maintenance records, simulated ground ECM operations, and electronic analysis of intercepted signals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics, 4 in electrical or electronics laboratory (3/74).

Version 6: 3380th Technical School, Scott AFB, IL.

AF-1715-0123

COMMUNICATIONS AND RELAY CENTER EQUIPMENT REPAIRMAN ELECTRO-MECHANICAL (TSEC/KW-9)

Objectives: To train enlisted personnel as communications and relay equipment repairmen.

Instruction: Lectures and laboratories in electrical fundamentals and circuit construction for the purpose of maintaining and repairing electromechanical equipment, including teletpywriters, typers, perforators, crypto equipment and relay center equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electricity or electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electricity or electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0124

F-11I PENETRATION AIDS TEST STATIONS TECHNICIAN

Course Number: ALR30173.

Location: 341th Technical School, Lowry AFB, CO.

Length: 18-21 weeks (540-630 hours).

Exhibit Dates: 8/66-12/68.

Objectives: To train enlisted personnel to operate, inspect, and maintain penetration aids test station equipment and ground equipment.

Instruction: Lectures and practical exercises in penetration aids test station equipment operation, inspection, and maintenance, including infrared receiver set familiarization and circuit analysis; radar homing and warning system familiarization; AGERD 6812 and AGERD 6811 operation, block diagram analysis, circuit analysis, maintenance, and calibration, and RHAW system circuit analysis.

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

AF-1715-0125

INTERMEDIATE/ORGANIZATIONAL (I/O) MAINTENANCE M-37 ASR LOW LEVEL KEYING

Course Number: 3AZR36350-5.

Location: 375th Technical School, Sheppard AFB, TX.

Length: 5 weeks (150 hours).


Objectives: To train enlisted personnel to maintain and repair M-37 ASR teletype equipment.

Instruction: Lectures and practical exercises in M-37 teletype equipment maintenance, including keyboard theory and adjustments, printer and associated components operation theory, disassembly, reassembly, and adjustments; reader and reperforator operation theory and adjustment; logic introduction; M-37 operational analysis; and troubleshooting the reperforator, tape reader, and electronic operations.
**AF-1715-0126**  
**SCOPE CONTROL SYSTEM ORGANIZATIONAL**  
**INTERMEDIATE (O/I) MAINTENANCE**  
**(SCOPE CONTROL SYSTEM FIELD/ORGANIZATIONAL (F/O) MAINTENANCE)**

**Course Number:** 3AZR30454-11  
**Location:** School of Applied Aerospace Sciences, Keesler AFB, MS  
**Length:** 9 weeks (270 hours).

**Exhibit Dates:** 1/71-12/73.

**Objectives:** To train enlisted personnel to operate and maintain scope control system equipment.

**Instruction:** Lectures on scope control system equipment characteristics, block-diagram and circuit analysis, troubleshooting procedures, malfunction isolation procedures, alignment, adjustment and detector analysis.

**Credit Recommendation:** See explanatory note at the beginning of the Air Force section.

**AF-1715-0127**  
**FIELD AND ORGANIZATIONAL (F & O) MAINTENANCE, TSEC/ KL-7**

**Course Number:** 3AZR36350  
**Location:** Sheppard AFB, TX.  
**Length:** 3 weeks (90 hours).

**Exhibit Dates:** 6/67-12/73.

**Objectives:** To train enlisted personnel to install, adjust, and maintain KL-7 equipment.

**Instruction:** Lectures and practical exercises in mechanical operation, adjustment and preventive maintenance, circuit analysis, and troubleshooting procedures.

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

**AF-1715-0128**  
**TEMPEST FOR SYSTEMS DESIGN ENGINEER**

**Course Number:** 3OZR2825-7  
**Location:** School of Applied Aerospace Sciences, Lackland AFB, TX.  
**Length:** 3 weeks (117 hours).

**Exhibit Dates:** 5/73-12/73.

**Objectives:** To train communication systems engineers to design and engineer communications systems in accordance with TEMPEST directives.

**Instruction:** Lectures on communication security communications center layout, distributed frames, and patching facilities, power requirements, grounding systems, and a simulated TEMPEST site survey.

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

**AF-1715-0129**  
**WEAPONS FUSING SYSTEM SPECIALIST**

**Course Number:** 3ABR313010  
**Location:** 3415th Technical School, Lowry AFB, CO.

**Length:** 20 weeks (600 hours).

**Exhibit Dates:** 12/60-12/73.

**Objectives:** To train officers in guided missile operations.

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

**AF-1715-0132**  
**COMMUNICATIONS AND RELAY CENTER EQUIPMENT REPAIRMAN, ELECTROMECHANICAL**

**Course Number:** 3ABR36330  
**Version 2:** 3ABR36330, ABR36330  
**Version 3:** ABR36330.

**Location:** 3750th Technical School, Sheppard AFB, TX.  
**Length:** 34 hours.

**Exhibit Dates:** 6/66-4/71.

**Objectives:** To train enlisted personnel in communication and information relay center teletype unit troubleshooting, maintenance, and repair.

**Instruction:** Lectures and practical experience in teletype unit troubleshooting, maintenance, and repair, including AC and DC circuit fundamentals, series-parallel and RLC circuits, and voltage regulators. **Version 1:** Instruction includes solid-state physics and devices, rectifiers and filters, principles of amplification, power amplifiers, oscillators and multivibrators, number systems, truth tables, Boolean equations, counters, and resonators, and AC and DC motors and generators.

**Version 2:** Instruction includes solid-state physics and devices, rectifiers and filters, principles of amplification, power amplifiers, oscillators and multivibrators, number systems, truth tables, Boolean equations, counters, and resonators, and AC and DC motors and generators.

**Version 3:** Instruction includes solid-state physics and devices, rectifiers and filters, principles of amplification, power amplifiers, oscillators and multivibrators, number systems, truth tables, Boolean equations, counters, and resonators, and AC and DC motors and generators.

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

**AF-1715-0131**  
**AN/GPA-125 CODER-DECODER ORGANIZATIONAL/INTERMEDIATE (O/I) MAINTENANCE**

**Course Number:** 3AZR30722-22  
**Location:** School of Applied Aerospace Sciences, Keesler AFB, MS.  
**Length:** 2 weeks (80 hours).

**Exhibit Dates:** 1/71-12/73.

**Objectives:** To provide enlisted personnel with supplemental training in coder-decoder organizational and intermediate maintenance.

**Instruction:** Lectures and practical exercises in coder-decoder maintenance, including analysis and performance checks, system timing, test panel, and mode 4 control circuits, and digital techniques and logic symbology.

**Credit Recommendation:** No credit because of the military nature of the course (3/74).
MISSILE ELECTRICAL SPECIALIST/TECHNICIAN, SM-68B

Course Number: ATS34150F-3.
Location: Sheppard AFB, TX.
Length: 7 weeks (210 hours).
Exhibit Dates: 1/62-12/68.

Objectives: To train enlisted personnel to maintain missile electrical systems and associated test equipment.

Instruction: Lectures and practical exercises in missile electrical systems and electrical equipment, ground equipment operation, installation exercise test sets and battery simulators.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0134

MISSILE ELECTRICAL SPECIALIST/TECHNICIAN, SM-68B

Course Number: ATS34150F-3.
Location: Sheppard AFB, TX.
Length: 7 weeks (210 hours).
Exhibit Dates: 1/62-12/68.

Objectives: To train enlisted personnel to maintain missile electrical systems and associated test equipment.

Instruction: Lectures and practical exercises in missile electrical systems and electrical equipment, ground equipment operation, installation exercise test sets and battery simulators.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0135

CONTROL SYSTEM MECHANIC/TECHNICIAN, SM-68

Course Number: ATS31270F-2.
Location: Sheppard AFB, TX.
Length: 13 weeks (390 hours).
Exhibit Dates: 3/61-12/68.

Objectives: To train enlisted personnel to repair and maintain electrical control systems.

Instruction: Lectures and practical exercises in flight control system equipment, missile and control systems, electrical and electronic equipment, ground equipment operation, maintenance, and testing procedures; signal tracing, and power supply fundamentals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (3/74).

AF-1715-0136

1. MISSILE ELECTRICAL SPECIALIST (LGM-25)
   Course Number: Version 1: ABR44130F-1.
   Location: 3750th Technical School, Sheppard AFB, TX.
   Objectives: To train enlisted personnel to repair LGM 25 and SM 68B missile electrical systems.

   Instruction: All Versions: Lectures and practical exercises in electrical system and equipment operation, circuit analysis, inspection, and maintenance; aerospace ground equipment electrical systems repair, functional and fault diagnosis, operation and inspection; stage I and II engine electrical system circuit analysis, operation, and maintenance; and digital techniques and computer hardware.

   Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in electronics (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours as an elective in electricity or electronics, and additional credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0137

DEFENSE MISSILE GUIDANCE MECHANIC (GAR)

Course Number: ATS31151W-3.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 10 weeks (300 hours).
Exhibit Dates: 6/62-12/68.

Objectives: To train enlisted personnel as defense missile guidance mechanics.

Instruction: Lectures and practical exercises in security, safety procedures, missile disassembly and analysis, armament, propulsion, and electrical power functions.

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

AF-1715-0138

MISSILE ELECTRICAL SPECIALIST (LGM-25)

Course Number: ABR34130.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 14 weeks (420 hours).
Exhibit Dates: 2/71-12/73.

Objectives: To train enlisted personnel to perform as missile guidance and control specialists.

Instruction: Lectures and practical exercises in AC and DC circuits fundamentals; solid-state devices, including transistors, amplifiers and power supplies, coupled with semiconductor devices, including amplifier principles, voltage regulators, tools, and soldering techniques; signal generation, timing, and control, logic symbols, circuits, and applications; and digital techniques and computer hardware.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in mechanics, 4 in electronics and electronics laboratory (3/74).

AF-1715-0139

FIELD AND ORGANIZATIONAL (F & O) MAINTENANCE AN/GMQ-10A
TRANSMITTER, AN/GMQ-13 ROTATING BEAM CEILOMETER

Course Number: ATS30270-17.
Location: 3750th Technical School, Chanute AFB, IL.
Length: 5 weeks (150 hours).
Exhibit Dates: 11/59-12/68.

Objectives: To train enlisted personnel in the maintenance of electronic weather observation equipment.

Instruction: Lectures and practical experience in circuit analysis, troubleshooting, high-voltage power supplies, and video circuits.
AF-1715-0142
AN/AXP-72 TRANSPONDER, INTERMEDIATE/ ORGANIZATIONAL (1/0)

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 2 semester hours in electronics
laboratory (3/74).

AF-1715-0143
MISSILE ELECTRONIC EQUIPMENT 
TECHNICIAN, WS-133A-A
Course Number: A2R316726
Location: 3345th Technical School,
Chanute AFB, IL.
Length: 6 weeks (186 hours).
Objectives: To train enlisted personnel in
the maintenance of launch and test equip-
ment.

Instruction: Lectures and practical ex-
erience in analysis of electronic principles,
equipment, theory and testing, isolation and
correction of equipment malfunctions,
removal and installation; use of technical
publications, and safety.

Credit Recommendation: No credit
because of the limited specialized na-
rity of the course (3/74).

AF-1715-0144
CONTROL SYSTEMS MECHANIC, IM-99A
Course Number: AB31120N-2
Location: 3345th Technical School,
Chanute AFB, IL.
Length: 26 weeks (690 hours).
Objectives: To train enlisted personnel in
the operation, maintenance, inspection,
and repair of IM-99A guided missile control
systems and related aerospace ground
equipment.

Instruction: Lectures and practical ex-
eriences in fundamentals of electronics,
light control components and systems, IM-99A
weapon system concepts, technical publica-
tions, maintenance and concepts, and weapon
system check-out and inspection equip-
ment.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 4 semester hours in electricity or
electronics (12/68).

AF-1715-0145
CONTROL SYSTEMS MECHANIC, IM-99A
Course Number: AB31120N-1
Location: 3345th Technical School,
Chanute AFB, IL.

Objectives: To train enlisted personnel in
the maintenance and repair of AC-DC vacuum
tubes, transistors, amplifiers, motors, and
servo-multivibrators.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 4 semester hours in electricity or,
electronics (12/68).

AF-1715-0146
GAM CONTROL MECHANIC, GAM-77
Course Number: ABR31532Q-2
Location: 3345th Technical School,
Chanute AFB, IL.
Length: 33 weeks (900 hours).

Objectives: To train enlisted personnel in
maintenance theory and the fundamentals
of electricity and electronics.

Instruction: Lectures and practical ex-
eriences in vacuum tubes, power amplifi-
ers, motors, motor servos, multivibrators,
and sweep circuits.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 4 semester hours in electricity,
electronics, and electrical laboratory (12/68).

AF-1715-0147
GUIDANCE SYSTEMS MECHANIC/TECHNICIAN 
GAM-77
Course Number: ATS3115OB-2
Location: 3345th Technical School,
Chanute AFB, IL.
Length: 18 weeks (540 hours).

Objectives: To train enlisted personnel to
perform circuit analyses on GAM-77 guidance
systems.

Instruction: Lectures and practical ex-
erience in computer logic and main-
tenance fundamentals.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 1 semester hour in electrical
laboratory (3/74); in the upper-division
baccalaureate category, credit in electrical
laboratory on the basis of institutional
evaluation (3/74).

AF-1715-0148
CONTROL MECHANIC/TECHNICIAN, GAM-77 
(CONTROL SYSTEMS MECHANIC/TECHNICIAN, GAM-77)
Course Number: ATS31552Q-1
Location: 3345th Technical School,
Chanute AFB, IL.
Length: 12-13 weeks (360-390 hours).

Objectives: To train maintenance person-
nel in the maintenance and repair of the
GAM-77 control system familiarization, in-
cluding monomials, binomials, and use of
slide rule; electricity fundamentals, including
resistors, AC, DC, and bridge circuits; series,
parallel, and series-parallel combination circuits;
parallel RLC circuits, resonance, and Q factor;
AC circuits fundamentals, including frequency,
phase, and percent; DC motors and generators;
servos, transistors, amplifiers, motors, and
tube devices; diodes, triodes, transistors, and
rectifiers; filters; basic concepts of tube amplification;
gas-filled tubes and voltage regulators; oscillators
and blocking circuits; amplifiers, power amplifiers,
and AM-FM circuits; power amplifier; transformers,
magnets, and transformers; circuit theory and
correction of equipment malfunctions, removal
and installation; use of technical publications,
and safety.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 4 semester hours in electricity or
electronics (12/68); in the upper-division
baccalaureate category, 4 semester hours in
electricity or electronics, and additional
credit in electrical laboratory on the basis of
institutional evaluation (3/74).

AF-1715-0149
WEAPONS FUSING SYSTEMS SPECIALIST 
(ELECTRONIC)
Course Number: AB31310-3
Location: 3415th Technical School,
Lowry AFB, CO.
Length: 26-30 weeks (750-810 hours).

Objectives: To train enlisted personnel in
inspecting, assembling, testing, and repair
nuclear weapons fusing systems, components,
and related test equipment.

Instruction: Lectures in applied mathe-
ematics, including monomials, binomials,
linear equations, powers of ten, addition,
subtraction, and multiplication of fractions,
and use of slide rule; electricity fundamentals,
including resistors, AC, DC, and bridge circuits;
series, parallel, and series-parallel combinations;
parallel RLC circuits, resonance, Q factor;
AC circuits fundamentals, including frequency,
phase, and percent; DC motors and generators;
servos, transistors, amplifiers, motors, and
tube devices; diodes, triodes, transistors, and
rectifiers; filters; basic concepts of tube amplification;
gas-filled tubes and voltage regulators; oscillators
and blocking circuits; amplifiers, power amplifiers,
and AM-FM circuits; power amplifier; transformers,
magnets, and transformers; circuit theory and
correction of equipment malfunctions, removal
and installation; use of technical publications,
and safety.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 4 semester hours in electricity or
electronics (12/68); in the upper-division
baccalaureate category, 4 semester hours in
electricity or electronics, and additional
credit in electrical laboratory on the basis of
institutional evaluation (3/74).
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COURSE EXHIBITS

pose tubes, amplifiers and oscillators, and oscilloscopes operation and use; nuclear physics fundamentals, and operation and use of elementary electronic counters.

Credit Recommendation: 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 evaluation (3/74).

AF-1715-0151

SPECIAL WEAPONS MAINTENANCE

TECHNICIAN

Course Number: AB99125FL
Location: 3415th Technical School, Lowry AFB, CO.


Exhibit Dates: Version 1: 5/59-12/68.


Objectives: To train enlisted personnel to operate and maintain special electronic instruments.

Instruction: All Versions: Lectures and practical exercises in electronic fundamentals, AC and DC circuits; RLC circuits; resonance; filter circuits; Universal Time Counters; waveforms; wave monitors; vacuum tubes; diodes, triodes, tetrodes, and pentodes; transistor fundamentals; amplifier principles; and oscilloscope operation and use.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics, and negative feedback amplifiers; oscillators, multivibrators, and pulse-generating circuits; and basic concepts communication systems and electromagnetic waves. Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in atomic physics, 2 in electricity and electronics, and, on the basis of institutional evaluation, credit in electrical laboratory (3/74).

AF-1715-0152

SPECIAL WEAPONS MAINTENANCE

TECHNICIAN

Course Number: AB99125Q.
Location: 3415th Technical School, Lowry AFB, CO.

Length: 39 weeks (1080 hours).

Exhibit Dates: 3/61-12/68.

Objectives: To train airmen to inspect, test, and repair electronic circuits and associated special systems.

Instruction: Lectures and practical exercises in special weapons systems maintenance, including AC and DC circuits, RL, RC, and RLC circuits including resonance and filters, basic meter movements, oscilloscopes use and operation; vacuum and gas tube theory; amplifiers, including DC, audio, pulse, tuned, and push-pull; oscillator principles; semiconductors theory; equivalency/converters, and computer systems analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and electrical laboratory (12/68); in the upper-division baccalaureate category, 3 semester hours in electronics and electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0153

GROUND COMMUNICATION EQUIPMENT REPAIRMAN

(CIM-10B)

(CIM-10B)

(CIM-10B)

TECHNICIAN

(CG-108)

Location: 3345th Technical School, Chanute AFB, IL.

Length: 13-18 weeks (402-540 hours).

Exhibit Dates: 1/61-12/73.

Objectives: To train enlisted personnel to operate and maintain specialized digital communications equipment.

Instruction: Lectures and practical exercises in advanced electronic principles, computer theory and operation, and use of check-out tapes, aircraft installed-equipment theory, analysis of flight operation, troubleshooting, and field maintenance.

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

AF-1715-0154

BALLISTIC MISSILE INERTIAL GUIDANCE

TECHNICIAN (SM-98B)

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 15 weeks (450 hours).

Exhibit Dates: 6/62-12/68.

Objectives: To train enlisted personnel to operate basic inertial guidance systems and associated support equipment.

Instruction: Lectures and practical exercises in the operation of ballistic missile inertial guidance systems, including system components, stabilization, guidance computer fundamentals, power supplies, and test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory, on the basis of institutional evaluation (3/74).

AF-1715-0155

AIR LAUNCH MISSILE GUIDANCE

ANALYST TECHNICIAN

(AF/74A)

Location: Chanute AFB, IL.

Length: Version 1: 13 weeks (390 hours), Version 2: 9 weeks (270 hours).


Objectives: To train enlisted personnel as air launch missile guidance technicians.

Instruction: Lectures and laboratories in advanced electronic principles, computer theory and operation, and use of check-out tapes, aircraft installed equipment theory, analysis of flight operation, troubleshooting, and field maintenance.

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

AF-1715-0156

BMESWS SPACE SURVEILLANCE CONSOLE

TECHNICIAN (ABR-27560)

Location: Keesler AFB, MS.

Length: 2 weeks (60 hours).

Exhibit Dates: 5/73-12/73.

Objectives: To teach enlisted personnel the basic concepts of ballistic missile early warning systems operations, space track system, detection radar display, target tracking console, and interference analyzer.

Instruction: Lectures in operations of the ballistic missile early warning system, including basic concepts of the spacecraft system, relationship of fundamentals of the radar and electronic warfare to the early warning system, tactical equipment, and displays related to detection radar, target tracking console, and the interference system.

Credit Recommendation: In the lower-division baccalaureate category, 3 semester hours in electrical laboratory (3/74).

AF-1715-0157

ANALYST TECHNICIAN, GEM-77

(ANALYST TECHNICIAN, GEM-77)

Course Number: ATS31753Q-1.
Location: 3345th Technical School, Chanute AFB, IL.

Length: 18 weeks (540 hours).

Exhibit Dates: 3/61-12/68.

Objectives: To train enlisted personnel to operate, maintain, and adjust the GAM-77 missile system.

Instruction: Lectures and practical exercises in basic transistor principles; navigation and computer operation; propulsion, electrical, hydraulic and associated systems; flight control and servicing equipment and computer systems analysis.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-171S-0158

Air Launch Missile Analyst Technician

Course Number: AAR31573Q

Location: 3345th Technical School, Chanute AFB, IL.


Objectives: To train enlisted personnel in advanced troubleshooting and field repair of air-to-ground missile guidance and control systems.

Institution: Lectures and practical exercises in air-to-ground missile guidance and control systems, including electrical and electronic principles; computer theory; guidance system theory and loop analysis; guidance equipment alignment and checkout procedures; and flight control and combined systems theory, systems analysis, troubleshooting, and safety procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics or digital computers (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics or digital computers (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-171S-0159

1. Communications and Relay Center Equipment Repairman: Electro-Mechanical (Other)

(Communications and Relay Center Equipment Repairman: Electro-Mechanical Cryptographic)

2. Communications Machine Repairman


Location: 3450th Technical School, Warren AFB, WY. Version 1: 3750th Technical School, Sheppard AFB, TX.


Objectives: To train enlisted personnel to install and maintain facsimile and teletypewriter equipment.

Instruction: Lectures and practical exercises in electronic fundamentals; magnetism; signal generation; vacuum tube principles; rectifiers, amplifiers, transformer and oscillator, and AC and DC motors operation; construction and troubleshooting of basic electrical circuits; teletype and teletypewriter set, portable facsimile equipment, and page printer maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronic laboratory (3/74); in the upper-division baccalaureate category, credit in electricity or electrical laboratory on the basis of institutional evaluation (12/68). Version 2: 2 in the vocational certificate category, 6 semester hours in electricity, and 1 in electrical laboratory (3/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in electricity, and 1 in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electricity or electrical laboratory on the basis of institutional evaluation (12/68).

AF-171S-0160

Ballistic Missile Checkout Equipment Specialist (SM-68B)

Course Number: ABR31235F.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 10 weeks (300 hours).

Exhibit Dates: 8/62-12/68.

Objectives: To train enlisted personnel as apprentice to missile check-out equipment specialists.

Instruction: Lectures and laboratories in digital logic, electronic circuit analysis, launch control monitoring and check-out systems, squareroot, control maintenance area check-out equipment, missile systems fault locators, monitor simulators, and hydraulic control unit and rocket engine test sets.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics and electronics laboratory (3/74).

AF-171S-0161

Ballistic Missile Checkout Equipment Specialist (SM-65E and F)

Course Number: ABR3135D.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 17 weeks (510 hours).

Exhibit Dates: 8/62-12/68.

Objectives: To train enlisted personnel with training in basic electronics and computer logic.

Instruction: Lectures and laboratories in power supplies, digital computer logic, and electronic fundamentals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics and electricity (3/74).

AF-171S-0162

Tactical Missile Control Mechanic (TM-76A/B)

(Control System Mechanic (TM-76A/B))

Course Number: ABR31432; ABR31230Q.

Location: None, Lowry AFB, CO.

Length: 26-30 weeks (690-810 hours).

Exhibit Dates: 5/65-1/68.

Objectives: To train enlisted personnel to be ballistic missile system mechanics.

Instruction: Lectures and practical exercises in electronic principles, circuit theory, and testing; gyro principles; technical publications; flight control systems theory, operation, check-out, and troubleshooting; and operation, use, and inspection of control system test consoles and ground support equipment.

Credit Recommendation: 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 in electricity or electronics (3/74).

AF-171S-0163

Nuclear Measurement Technician

Course Number: AB33231.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 23-26 weeks (660-690 hours).

Exhibit Dates: 4/55-12/68.

Objectives: To train enlisted personnel to operate, analyze, maintain, and inspect special laboratory instruments used in nuclear technology.

Instruction: Lectures and laboratory in basic electronics, including AC and DC circuits, magnetism, vacuum tubes, amplifiers, oscillators, and transistors; electronic analysis and wave shaping, multivibrators and pulse circuits, semiconductors introduction, and oscilloscopes, mathematics, including simultaneous linear equations; nuclear physics, including wave motion, atomic structure, periodic tables, mass-energy, binding energy curve, nuclear forces, electromagnetic radiation, alpha, beta, and gamma radiation, decay, emission, and absorption, isotopes chart and unknown isotopes determination; neutrons and photon reactions, including fission, binding energy, critical energy, chain reactions, A-bomb, nuclear reactor, critical mass, decay curves of radioactive isotopes, ionization of gases; electronics type instruments, including ion chambers, pulse amplifiers, proportional, geiger-mueller, flow, wrap-around, and scintillation counters; photodetectors, explosion phenomena and burst characteristics, protection, shielding, decontamination, and medical safety; and technical procedures, including error reduction and error counting, plate mapping and resolving time, and scaling circuits and devices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics, 3 in electronics laboratory, 6 in physics, 3 in physics laboratory (3/74); in the upper-division baccalaureate category, 4 semester hours in electrical laboratory (3/74).

AF-171S-0164

Electrical Engineering

Course Number: None.

Location: Air Force Institute of Technology, Wright-Patterson AFB, OH.

Length: 4 weeks (240 hours).

Exhibit Dates: 4/73-Present.

Objectives: To provide electrical engineers with advanced training in electrical power systems design.

Instruction: Lectures in one- and three-phase circuits; power-factor corrections; voltage regulations; load flow, fault calculations and grounding methods, various fuses, circuit breakers, and relays; transformer characteristics; lighting methods; operation and applications of various AC and DC motors, systems and quality management and planning; and national electric code regulations and practices.
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Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (3/74); in the upper-division baccalaureate category, 3 semester hours in electronics (3/74).

AF-1715-0165

AN/TTC-30 ELECTRONIC SWITCH IN IMMEDIATE/ORGANIZATIONAL (I/O) MAINTENANCE

Course Number: 3ABR31625-1
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX.
Length: 14 weeks (420 hours).
Exhibit Dates: 2/73-12/73.
Objectives: To train technicians to repair the AN/TTC-30 electronic switch.
Instruction: Lectures and practical exercises in electronics switch system fundamentals and configuration familiarization, block diagrams, and circuit analysis, malfunctions isolation, specialized test equipment usage, and switching circuits and switching logic theory.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (3/74).

AF-1715-0166

MISSILE ELECTRONIC EQUIPMENT SPECIALIST (LGM - 35)

Course Number: All Versions: 3ABR31625F. Version 2: ABR31625F.
Location: 3750th Technical School, Sheppard AFB, TX.
Objectives: To train enlisted personnel to perform duties as missile electronic equipment specialists.
Instruction: Lectures and laboratories in basic electricity, including AC and DC circuits, motors, and synchro mechanics; solid-state amplifiers and power supplies; soldering and test equipment; solid-state application in wave generation; digital techniques, weapon system familiarization; launch complex systems and equipment; missile electrical system; and systems maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics and electronics laboratory (3/74); in the upper-division baccalaureate category, 3 semester hours in electronics laboratory (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electronics (3/74).

AF-1715-0167

NUCLEAR TECHNICIAN

Course Number: AB33230.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 22-27 weeks (690-840 hours).
Exhibit Dates: 11/55-12/68.
Objectives: To train enlisted personnel to perform as nuclear technicians.
Instruction: Lectures and laboratories in AC and DC fundamentals; vacuum tubes and power supplies; amplifiers and oscillators; ionization detectors and scalers; servomechanisms, test equipment, and electronic construction techniques; bomb physics; radiation detection and radiological safety and salvage; nuclear components; and nuclear laboratory and laboratory instrument usage. No instruction in transistors.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics (3/74).

AF-1715-0168

ADVANCED ELECTRICAL-ELECTRONICS MEASUREMENTS

Course Number: 3ABR32470-5
Location: 3415th Technical School, Lowry AFB, CO.
Length: 6 weeks (180 hours).
Exhibit Dates: 10/67-12/73.
Objectives: To train Air Force, Navy, and Marine Corps personnel as advanced precision measuring equipment specialists.
Instruction: Lectures and laboratories in principles of metrology; operation, application, and mathematical analysis of measurement methods; and calibration of electrical-electronic standards and measuring equipment.

Credit Recommendation: 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 in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0169

1. ATOMIC ENERGY, PHASE I (ELECTRICAL)

2. ATOMIC ENERGY, PHASE I

Location: 3380th Technical School, Keesler AFB, MS.
Objectives: To provide enlisted personnel with training in electrical fundamentals.
Instruction: All Versions: Lectures and laboratories in analysis of electrical and electronic circuits, including DC and AC circuits, magnetism, vacuum tubes, power supplies, voltmeters, amplifiers, synchro oscillators, and modulation and demodulation. Emphasis is on testing and operating. Version 2: Includes receivers, special circuits, transmitters, and radar fundamentals.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics or electricity (12/68); in the upper-division baccalaureate category, 1 semester hour in basic electronics (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics (3/74).

AF-1715-0170

COMMUNICATIONS-ELECTRONICS SYSTEMS SUPERINTENDENT

Course Number: 3AA30090.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 23-29 weeks (690-870 hours).
Exhibit Dates: 3/73-12/73.
Objectives: To train airmen to supervise the maintenance and operation of communications-electronics equipment systems.
Instruction: Lectures in the management of maintenance and operational problems of representative equipment and systems in communications and electronics, including logistics management, environmental and corrosion control, high-voltage, radio-frequency transmission analysis, digital techniques, TEMPEST, and employment of communications and electronics systems.

Credit Recommendation: Insufficient data for evaluation (3/74).

AF-1715-0171

BALLISTIC MISSILE INERTIAL GUIDANCE MECHANIC (SM-6SE AND F)

Course Number: ABR31232A.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 10 weeks (300 hours).
Exhibit Dates: 8/62-12/68.
Objectives: To train enlisted personnel in basic inertial guidance systems.
Instruction: Lectures and practical exercises in ballistic missile inertial guidance mechanics, including security and maintenance concepts, operating procedures for check-out equipment, analysis for countdown and alignment group troubleshooting and repair procedures, calibration of the alignment groups and theodolite using Polar and azimuth reference prisms, and fundamentals of the computer, digital, mechanical, and optical interface.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0172

MISSILE GUIDANCE AND CONTROL SPECIALIST (CGM-13B, FCC)

Course Number: 3ALR3165N-3; ALR3165N-3.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 10 weeks (300 hours).
Exhibit Dates: 3/67-12/73.
Objectives: To train enlisted personnel to apply electronic, missile guidance, and flight control principles and to use test and ground support equipment.
Instruction: Lectures and practical exercises in the principles of electronics, missile...
guidance, and flight control, including training in instrument, transistors, amplifiers, relay logic, missile systems operation, and troubleshooting and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics and electronics laboratory (3/74).

AF-1715-0173
BALLISTIC MISSILE CHECKOUT EQUIPMENT
SPECIALIST (HGM-25A)
(BALLISTIC MISSILE CHECKOUT EQUIPMENT
SPECIALIST (SM-68A))

Course Number: ABR31235E.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12-13 weeks (360-390 hours).
Exhibit Dates: 3/62-12/68.

Objectives: To train enlisted personnel to perform as apprentice ballistic missile checkout equipment specialists.

Instruction: Lectures and practical exercises in ballistic missile check-out, including printed circuit board analysis, projectile loading and pressurization systems, propulsion systems, engine control system, and test and maintenance procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and electronics laboratory (3/74).

AF-1715-0174
1. ELECTRONIC COMMUNICATIONS AND
CRYPTOGRAPHIC EQUIPMENT SYSTEMS REPAIRMAN
2. ELECTRONIC COMMUNICATIONS AND
CRYPTOGRAPHIC EQUIPMENT SYSTEMS REPAIRMAN
3. ELECTRONIC COMMUNICATIONS AND
CRYPTOGRAPHIC EQUIPMENT SYSTEMS REPAIRMAN
4. ELECTRONIC COMMUNICATIONS AND
CRYPTOGRAPHIC EQUIPMENT SYSTEMS REPAIRMAN

Course Number: Version 1: 3ABR306300.
Version 2: 3ABR306300.
Version 3: ABR306300A
Version 4: ABR306300B
Version 5: ABR306300C.
Location: 3275th Technical School, Lackland AFB, TX.
Length: Version 1: 3 weeks (1113 hours).
Version 2: 4 weeks (1197 hours).
Version 3: 20 weeks (600 hours).
Version 4: 35-41 weeks (300-360 hours).
Version 5: 78-86 weeks (780-960 hours).

Exhibit Dates: Version 1: 3/72-12/73.
Version 3: 11/65-12/70.

Objectives: To train enlisted personnel to install, operate, maintain, and repair cryptographic equipment.

Instruction: Lectures and practical exercises in basic electronics; series, parallel, series-parallel resistive circuits; reactive, inductive, and capacitive circuits; vacuum tubes and solid-state devices; coupling and logic circuits; power supplies; oscillators; pulse and multiplex systems; and specialized training, in various specific cryptographic equipment maintenance and repair.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, 2 semester hours as an elective in electricity or electronics (3/74).

AF-1715-0175
1. MISSILE ENGINEER MECHANIC (LGM-25)
2. MISSILE ENGINEER MECHANIC (SM-68B)

Course Number: ABR44331E-2.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: Version 1: 19-20 weeks (540-570 hours).
Version 2: 9 weeks (270 hours).

Objectives: To train enlisted personnel to operate, inspect, and maintain rocket engines.

Instruction: All Versions: Lectures and practical exercises in stage I and stage II rocket motor engine familiarization, construction features, and maintenance, and in silo and ground equipment maintenance. Version 1: Includes mechanical and electronic principles: AC and DC fundamentals, generators and motors, rectifiers, vacuum tubes, and semiconductors.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity, in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electricity and electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0176
AVIONICS INSTRUMENT SPECIALIST
LATERAL
Course Number: 3ALR32531.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 10 weeks (300 hours).
Exhibit Dates: 3/72-12/73.

Objectives: To train enlisted personnel to perform as avionics instrument specialists.

Instruction: Lectures and practical exercises in principles of electrical and electronic circuits and solid-state devices, including principles of operation and circuit analysis of the vertical scale instruments, slaved gyro-compares, attitude reference, flight director, central air data computer, and instruction in the automatic altitude reporting system, power supplies, and non-linear wave shaping.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (3/74).

AF-1715-0177
AN/UPX-14, FIELD AND ORGANIZATIONAL
(F & O) MAINTENANCE

Course Number: ATS3072-59.
Location: 3380th Technical School, Keiser AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/62-12/68.

Objectives: To train enlisted personnel to perform as AN/UPX-14 interrogator-responder.

Instruction: Lectures and practical exercises in the principles of operation, tests, adjustments, troubleshooting, and repair of AN/UPX-14 equipment components, including functional analysis of circuits, transmitters, and receivers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics, and additional credit in electronics on the basis of institutional evaluation (3/74).

AF-1715-0178
BALLISTIC MISSILE LAUNCH EQUIPMENT
REPAIRMAN (SM-68A)

Course Number: ABR31236E.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12 weeks (360 hours).
Exhibit Dates: 3/62-12/68.

Objectives: To train enlisted personnel with training in missile systems fundamentals to perform as apprentice ballistic missile launch equipment repairmen.

Instruction: Lectures and practical exercises in the repair of ballistic missile launch equipment, including launch control, circuit analysis, logic circuits, control center circuits, basic electronics, test equipment, assemblies, and maintenance and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronics (3/74).

AF-1715-0179
BALLISTIC MISSILE LAUNCH EQUIPMENT
REPAIRMAN (SM-68A)

Course Number: ABR31236F.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (780 hours).
Exhibit Dates: 8/62-12/68.

Objectives: To train airmen to perform as apprentice ballistic missile launch equipment repairmen.

Instruction: Lectures and practical exercises in the repair of ballistic launch equipment, including special circuitry, launch control monitoring, power distribution control, maintenance of the launch control set and flight control systems, and hazard sensing and damage control systems.
AF-1715-0180
CONTROLS SYSTEM ANALYST (TM-76A)
Course Number: ABR31431G.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 19 weeks (540 hours).
Exhibit Dates: 12/59-12/60.
Objectives: To train airmen to perform as apprentice controls systems analysts.

Instruction: Lectures and practical exercises in control systems analysis, including control electronics, mathematical analysis, and wave-guides; microwave tubes; noise; standards, and measurement theory and instrumentation.

Credit Recommendation: In the upper-division baccalaureate/associate degree category, 3 semester hours in the maintenance of advanced microwave and radar systems; pulse generators and processors; RF amplifiers, and solid-state devices; RF and IF equipment, calibration and modulation-demodulation systems; pulse generators and processors; measurements; maintenance management and equipment analysis of electronic medical and dental equipment.

AF-1715-0181
ADVANCED MICROWAVE MEASUREMENT AND CALIBRATION
Course Number: 3AZR32470-12.
Location: School of Applied Aerospace Sciences, Lowry AFB, CO.
Length: 6 weeks (240 hours).
Exhibit Dates: 5/73-12/73.
Objectives: To train enlisted personnel to maintain advanced microwave measuring equipment.

Instruction: Lectures and practical exercises in the maintenance of advanced microwave systems, including electronic fundamentals (power supplies, amplifiers, linear systems, microwaves, vacuum tubes, antennas), guided missile fundametals, flight controls and command guidance theory and checkout test sets, and basic missile checker components and operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic systems (3/74).

AF-1715-0182
MEDICAL EQUIPMENT REPAIR
Course Number: Version 1: 3AZR40370-2.
Location: 3415th Medical Service School, Sheppard AFB, TX. Version 2: Medical Service School, Gunter AFB.-AL; Location: Medical Service School, Gunter AFB, AL.
Length: Version 1: 30 weeks (900 hours); Version 2: 30 weeks (1080-1114 hours) Version 3: 16 weeks (588 hours).
Objectives: To train enlisted personnel as medical equipment repair technicians.

Instruction: Lectures and laboratories in DC and AC circuit fundamentals and generation of AC and DC; basic electronics, power supplies, oscillators, amplifiers, and solid-state devices; RF and IF equipment, calibration and modulation-demodulation systems; pulse generators and processors; measurements; maintenance management and equipment analysis of electronic medical and dental equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

AF-1715-0183
F-111 INDICATOR AND CONTROLS TEST STATIONS TECHNICIAN
Course Number: ALR32570.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 15-18 weeks (450-540 hours).
Exhibit Dates: 6/66-12/68.
Objectives: To train enlisted personnel to operate, inspect, and maintain aerospace ground equipment, test stations, line replaceable units, and support equipment.

Instruction: Lectures and practical exercises in aerospace ground equipment and support equipment, including principles of mathematics, application and design of measurement methods, precision of measurement equipment, measurement theory and instrumentation as applied to transmission lines and microwave tubes, noise, microwave power, impedance and VSWR.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in microwave measurement (3/74), in the upper-division baccalaureate category, 3 semester hours in microwave measurement (3/74).

AF-1715-0184
NAVIGATION AIDS TEST STATIONS TECHNICIAN
Course Number: ALR30171.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 8 weeks (240 hours).
Exhibit Dates: 8/66-12/68.
Objectives: To train enlisted personnel to perform as navigation aids test stations technicians.

Instruction: Lectures and practical exercises in the maintenance of the navigation aids test stations equipment and procedures, including the theory, operation and inspection of equipment, maintenance on line replaceable units, test station and peculiar support AGE, ground safety and security, block-diagram and circuit analyses of equipment, calibration and maintenance management.

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

AF-1715-0185
AIRCRAFT RADIO REPAIR (DATA LINK SUPPLEMENT)
Course Number: ABR30150-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 10-12 weeks (300-360 hours).
Exhibit Dates: 11/60-12/68.
Objectives: To train enlisted personnel to maintain and repair data link radio equipment.

Instruction: Lectures and practical experience in data link radio equipment maintenance and repair, including basic digital techniques, specific receiver/converter circuits analysis, data link radio equipment functional analysis, and circuit boards failure analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics (3/74).

AF-1715-0186
INTEGRATED AVIONIC SYSTEMS SPECIALIST
Course Number: 3AZR32622C.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 9 weeks (270 hours).
Exhibit Dates: 8/72-12/73.
Objectives: To train airmen to operate, test, and maintain avionics systems.

Instruction: Lectures and practical exercises in avionics systems operation and maintenance, including AC and DC circuits, meters and test instruments, synchros and servos, amplifiers, power supplies, digital circuits, basic receivers and transmitters, airborne communication principles, maintenance and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in electronics (3/74).

AF-1715-0187
TECHNIQUES OF CIRCUIT CONDITIONING
Course Number: 3AZR30750.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (120 hours).
Exhibit Dates: 9/71-12/73.
Objectives: To train airmen in transmission circuit conditioning.

Instruction: Lectures and practical exercises in circuit balance and noise; conditioning concepts, techniques, and applications; and VF conditioning equipment and associated equipment operation.

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

AF-1715-0188
AN/TSC-60 COMMUNICATIONS CENTRAL O/I (407L)
Course Number: 3AZR30454-15.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 8 weeks (240 hours).
Exhibit Dates: 12/72-12/73.
Objectives: To train airmen to maintain a specific communications terminal system at an intermediate level.
Instruction: Lectures and practical exercises in the maintenance of the AN/TSC-60 communications central system, including a block diagram by block module analysis of individual system components; alignment and adjustments; performance checks and troubleshooting procedures on radio receiver, amplifiers, power supply, and teletype equipment.

Credit Recommendation: In the lower division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

AF-1715-0191

SOLID STATE DEVICES, FIELD AND ORGANIZATIONAL (F & O) MAINTENANCE

Course Number: ATS30070-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 11/62-12/68.
Objectives: To train maintenance personnel to maintain transistorized electronic equipment.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0194

TRANSMITTED ORGANIZATIONAL INTERMEDIATE AND ORGANIZATIONAL (I & O) MAINTENANCE

Course Number: 3AZR36350-2.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (72 hours).
Exhibit Dates: 2/72-12/73.
Objectives: To train airmen to repair and maintain autowriter transmitters and receivers.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0198

TELEPHONE SWITCHING EQUIPMENT REPAIRMAN, ELECTROMECHANICAL (OTHER)

Course Number: AB36132.
Location: 3450th Technical School, Warren AFB, WY.
Length: 10 weeks (300 hours).
Exhibit Dates: 2/55-12/68.
Objectives: To train airmen to install, maintain, and repair telephone and interoffice voice communications systems.

Instruction: Lectures and practical experience in pole climbing and field wire systems, telephone repair, maintenance installation, and interoffice and key telephone equipment maintenance and repair.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0199

TELEPHONE CIRCUIT ANALYSIS

Course Number: ATS36172-1.
Location: 1750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (120 hours).
Exhibit Dates: 12/61-12/68.
Objectives: To train airmen and civilians in electronic telecommunications.

Instruction: Lectures and practical experience in frequency and wave propagation, antennas, and electronic systems, and maintenance and troubleshooting of radio and television equipment.

Credit Recommendation: In the lower division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

AF-1715-0199

TELEPHONE SELECTING EQUIPMENT REPAIRMAN, ELECTROMECHANICAL (OTHER)

Course Number: 3AZR36350-2.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 3 weeks (72 hours).
Exhibit Dates: 2/72-12/73.
Objectives: To train airmen to repair and maintain autowriter transmitters and receivers.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0199

TELEPHONE INSTALLER-REPAIRMAN

Course Number: AB36132.
Location: 3450th Technical School, Warren AFB, WY.
Length: 10 weeks (300 hours).
Exhibit Dates: 2/55-12/68.
Objectives: To train airmen to install, maintain, and repair telephone and interoffice voice communications systems.

Instruction: Lectures and practical experience in pole climbing and field wire systems, telephone repair, maintenance installation, and interoffice and key telephone equipment maintenance and repair.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0199

TELEPHONE SWITCHING EQUIPMENT REPAIRMAN, ELECTROMECHANICAL (OTHER)

Course Number: AB36132.
Location: 3450th Technical School, Warren AFB, WY.
Length: 10 weeks (300 hours).
Exhibit Dates: 2/55-12/68.
Objectives: To train airmen to install, maintain, and repair telephone and interoffice voice communications systems.

Instruction: Lectures and practical experience in pole climbing and field wire systems, telephone repair, maintenance installation, and interoffice and key telephone equipment maintenance and repair.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0199

TELEPHONE INSTALLER-REPAIRMAN

Course Number: AB36132.
Location: 3450th Technical School, Warren AFB, WY.
Length: 10 weeks (300 hours).
Exhibit Dates: 2/55-12/68.
Objectives: To train airmen to install, maintain, and repair telephone and interoffice voice communications systems.

Instruction: Lectures and practical experience in pole climbing and field wire systems, telephone repair, maintenance installation, and interoffice and key telephone equipment maintenance and repair.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0199

TELEPHONE SWITCHING EQUIPMENT REPAIRMAN, ELECTROMECHANICAL (OTHER)

Course Number: AB36132.
Location: 3450th Technical School, Warren AFB, WY.
Length: 10 weeks (300 hours).
Exhibit Dates: 2/55-12/68.
Objectives: To train airmen to install, maintain, and repair telephone and interoffice voice communications systems.

Instruction: Lectures and practical experience in pole climbing and field wire systems, telephone repair, maintenance installation, and interoffice and key telephone equipment maintenance and repair.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-1715-0198

Specialized Communications and Electronics (C & E) Training
Course Number: ATS30472-3
Location: 3380th Technical School, Keesler AFB, MS
Length: 16 weeks (480 hours).
Exhibit Dates: 4/62–12/68.
Objectives: To train enlisted personnel to operate, maintain, and repair specific electronic equipment.

Instruction: Lectures and practical exercises in electronics principles; AC and DC circuits; transmitters and receivers; transistors and their applications; and television, telephone, telex systems, and direction-finding equipment operation, maintenance, and repair.

Credit Recommendation: 1 1/2 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 as an elective in electricity or electronics (3/74).

AF-1715-0199

Fire Control Systems Mechanic (E-9 Series)
Course Number: AL32230E
Location: 3415th Technical School, Lowry AFB, CO.
Length: 20 weeks (480 hours).
Exhibit Dates: 5/56–12/68.
Objectives: To train airmen to operate and maintain the E-9 fire control system.

Instruction: Lectures and practical exercises in field and organization maintenance of the E-9 fire control system, including circuit analysis, systems operation (with instruction in intelligence gathering), antenna positioning and computing loops, power distribution, and malfunction analysis.

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

AF-1715-0200

Tracking/Identification (SAGE)
Course Number: OFR744B-5
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6 weeks (180 hours).
Objectives: To train officers to perform as data processing identification officers (SAGE).

Instruction: Lectures and practical exercises in the organization, function, and operation of SAGE direction centers, including communications, equipment and weapons, and track monitoring and identification.

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

AF-1715-0201

Fire Control Systems Mechanic (E-9 Series)
Course Number: AB32320E
Location: 3415th Technical School, Lowry AFB, CO.
Length: 42 weeks (1170 hours).
Exhibit Dates: 7/56–12/68.

Objectives: To train enlisted personnel to maintain, and repair the E-9 fire control system.

Instruction: Lectures and practical exercises in the maintenance of the E-9 fire control system, including malfunction analysis, component familiarization, alignment and adjustments, electricity and electronics fundamentals, and analysis of special circuits. Electronics not presented in depth.

Credit Recommendation: 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, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0202

Electronic Warfare Countermeasures Specialist
Course Number: 3ALR27332.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 11 weeks (330–360 hours).
Objectives: To provide aircraft control and warning technicians with training in electronic warfare countermeasures.

Instruction: Lectures and practical exercises in electronics principles, including AC, DC, and RLC circuits; multivibrators, oscillators, amplifiers, and modulation; radar principles and systems; data processing, and electronic countermeasures and counter-countermeasures equipment, techniques, and devices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electronics on the basis of institutional evaluation (3/74).

AF-1715-0203

F-III Computer/Programmer Test Stations Technician
Course Number: AL.R30174.
Location: 3415th Technical School, Lowry AFB, CO.
Exhibit Dates: 6/66–12/68.
Objectives: To train enlisted personnel to operate, test, and maintain computer test station equipment.

Instruction: Lectures and practical exercises in computer test station equipment operation, testing and maintenance, including circuit analysis of systems; computer mathematics, logic, and circuits; navigation, flight control, and optical system gyro and accelerometer systems; and automatic test equipment operation and maintenance.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer electronics (3/74); in the upper-division baccalaureate category, 1 semester hour in computer electronics, and additional credit in computer electronics on the basis of institutional evaluation (3/74).

AF-1715-0204

Fire Control Systems Mechanic (AN/ASG-14 System)
Course Number: AB32230M
Location: 3415th Technical School, Lowry AFB, CO.
Length: 26 weeks (550 hours).
Exhibit Dates: 2/55–5/56.
Objectives: To train enlisted personnel to maintain, repair, and isolate malfunctions in the AN/ASG-14 fire control system.

Instruction: Lectures and practical exercises in AN/ASG-14 maintenance and repair, including electricity symbols, units, and meters; AC and DC circuit fundamentals; oscilloscopes; series-parallel and RLC circuits; vacuum and gas-filled tubes; multigrid devices; rectifiers, filters, and regulators; amplifiers, oscillators, sweep generators, and multivibrators; transistors and specialized circuits; radar and RF transmission principles; MA-10 radar unit transmitter, receiver, and electronic countermeasures, optical and infrared operation; and field exercises in aircraft.

Credit Recommendation: 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 in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0205

Turret Systems Gunner (A-3A/MD-9 Turrets)
Course Number: AL32331G, ZZ32331G.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 8 weeks (240 hours).
Exhibit Dates: 12/55–12/68.
Objectives: To train enlisted personnel to be aerial gunners for bombardment aircraft.

Instruction: Lectures and practical demonstrations in 50 caliber gun, M-3, and associated equipment operations; A-3A/MD-9 fire control system operation and controls; and A-3A/MD-9 and associated equipment preflight and postflight inspection.

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

AF-1715-0206

Turret Systems Gunner, B-66 (MD-1)
Course Number: ZZ32331D.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 14 weeks (420 hours).
Exhibit Dates: 12/55–12/68.
Objectives: To train enlisted personnel as aerial gunners on B-66 aircraft.

Instruction: Lectures and practical exercises in gunnery introduction; turret systems development; radar basic theory; basic electricity and electrical motors, servos, amplifiers, solenoids, and vacuum tube theory; aircraft power supplies; gunner's test equipment and 20mm automatic gun, associated equipment, and feed mechanism; preflight and postflight inspection and check-out procedures; malfunction range training; fire control system nomenclature.
and components location; system block-diagram analysis; gynnery range and ammunition; and crew coordination and procedures.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0207
F/FFB111 PENETRATION AIDS TEST STATIONS TECHNICIAN
Course Number: 3ALR30173-2.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 13 weeks (390 hours).
Exhibit Dates: 4/68-12/73.
Objectives: To train enlisted personnel to maintain penetration aids and infrared test stations.

Instruction: Lectures and practical exercises in infrared theory and techniques; infrared receiver set, signal flow; field diagnosis analysis and operation of tester replaceable units; infrared test station maintenance procedures; and infrared test station maintenance; and tester replaceable units of the penetration aids test station block-diagram analysis and operating procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electronics on the basis of institutional evaluation (3/74).

AF-1715-0209
AIRCRAFT CONTROL AND WARNING OPERATORS (SAGE)
Course Number: ABR27330B.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 12 weeks (360 hours).
Exhibit Dates: 10/58-12/73.
Objectives: To train enlisted personnel to perform as aircraft control and warning operators (SAGE).

Instruction: Lectures and practical exercises on aircraft control and warning, including the concepts of air defense, principles of radar and application of radiotelephone communications, operation of appropriate EAM machines, radar and manual data inputs, tracking, track monitoring, track telling, height finding, and intercept control.

Credit Recommendation: No credit because of the military nature of the course.

AF-1715-0210
INTEGRATED AVIONICS SYSTEM SPECIALIST (INERTIAL/BOMB NAVIGATION, FIRE/WEAPON CONTROL, DIGITAL COMPUTERS, AIRBORNE PHOTOGRAPHIC SYSTEMS, AND MULTI-SENSOR DISPLAYS)
Course Number: 3ABR32632A.
Location: School of Applied Aerospace Sciences, Lowry AFB, CO.
Length: 18 weeks (540 hours).

Exhibit Dates: 3/72-12/73.
Objectives: To train enlisted personnel as integrated avionic systems specialists.

Instruction: Lectures and laboratories in electronic principles, including schematic symbols, resistance, ohmmeter, Ohm's law, power law, signal control circuits, generation of AC, oscilloscope operation, electromagnetism and relays, reactance and reactive circuits, DC and AC motors, semiconductors theory, diodes, transistors, rectifier circuits, filters, power supplies, Zener diodes, basic amplifiers, video amplifiers, control systems, oscillators, limiters, clamps, multivibrators, Schmitt triggers, digital mathematics, logic circuits, and Boolean algebra; and operations and maintenance; AN/SAG-14 intercept equipment; APS-23A radar sets and K-series interconnect (ICE) data flow, circuit tracing, maintenance procedures, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Credit Recommendation: 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 evaluation (3/74).

AF-1715-0221
FIRE CONTROL SYSTEMS MECHANIC (AN/ASG-14 SYSTEM)
Course Number: AL32230M.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 13 weeks (390 hours).
Exhibit Dates: 2/58-12/68.
Objectives: To train enlisted personnel to maintain, repair, and isolate malfunctions within AN/ASG-14 fire control systems.

Instruction: Lectures and laboratories in location, identification, and adjustment of transmitter circuits, receiver and computer circuits, electronic countermeasures operation indicators, optical gunsight systems, and infrared sights.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electricity and electrical laboratory on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, credit in electricity and electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0222
1. BOMB NAVIGATION SYSTEMS TECHNICIAN (MA-6A, 7A RADAR AND ICE)
   (BOMB NAVIGATION SYSTEMS TECHNICIAN (MA-6A, MA-7A RADAR AND INTERCONNECT))
   (BOMB NAVIGATION SYSTEMS TECHNICIAN (K, MA-6A, MA-7A SERIES RADAR INTERCONNECTS))
   (K-SERIES RADAR AND INTERCONNECT EQUIPMENT TECHNICIAN)
   (K-SERIES RADAR AND INTERCONNECT EQUIMENT TECHNICIAN)

Course Number: Version 1: AAR32170C.
Version 2: AAR32170C, AA32170C.
Version 3: AA32171EC.
Version 4: AA32171EC.
Location: 3415th Technical School, Lowry AFB, CO.

Objectives: To train enlisted personnel as radar and interconnection equipment.

Instruction: Lectures and laboratories in DC and AC circuits, with introduction to transformers and machines; vacuum tubes, including rectifiers, HF amplifiers, regulators, doublers, cathode followers, clamping circuits, oscillators, sweep generators, and multivibrators; principles of radar, radar and interconnect (ICE) data flow, circuit tracing, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Credit Recommendation: Version 1: Lectures and laboratories in system data flow; radar and interconnection equipment circuit analysis; basic DC and AC circuit analysis; vacuum tubes, including rectifiers, HF amplifiers, regulators, doublers, cathode followers, clamping circuits, sweep generators, oscillators, and multivibrators; principles of radar, radar and interconnect (ICE) data flow, circuit tracing, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Version 2: Lectures and laboratories in system data flow; radar and interconnection equipment circuit analysis; basic DC and AC circuit analysis; vacuum tubes, including rectifiers, HF amplifiers, regulators, doublers, cathode followers, clamping circuits, sweep generators, oscillators, and multivibrators; principles of radar, radar and interconnect (ICE) data flow, circuit tracing, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Version 3: Lectures and laboratories in DC and AC circuits, with introduction to transformers and machines; vacuum tubes, including rectifiers, HF amplifiers, regulators, doublers, cathode followers, clamping circuits, sweep generators, oscillators, and multivibrators; principles of radar, radar and interconnect (ICE) data flow, circuit tracing, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Version 4: Lectures and laboratories in fundamentals of K-series bomb navigation systems and operation, data flow, circuit analysis, and maintenance of APS-23A radar sets and K-series interconnection equipment.

Credit Recommendation: Version 1: No credit because of the military nature of the course.

AF-1715-0223
Airborne Weapon Interconnection (AWI) System Technician

Length: Version 1: 32 weeks (960 hours).
Version 2: 27 weeks (810 hours).
Version 3: 26 weeks (780 hours).
Version 4: 24 weeks (720 hours).

Exhibit Dates: Version 1: 7/60-12/68.
Version 4: 1/54-12/54.

Objectives: To train enlisted personnel to maintain radar and interconnection equipment.

Instruction: Lectures and laboratories in DC and AC circuits, with introduction to transformers and machines; vacuum tubes, including rectifiers, HF amplifiers, regulators, doublers, cathode followers, clamping circuits, sweep generators, oscillators, and multivibrators; principles of radar, radar and interconnect (ICE) data flow, circuit tracing, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Credit Recommendation:

Version 1: Lectures and laboratories in system data flow; radar and interconnection equipment circuit analysis; basic DC and AC circuit analysis; vacuum tubes, including rectifiers, HF amplifiers, regulators, doublers, cathode followers, clamping circuits, sweep generators, oscillators, and multivibrators; principles of radar, radar and interconnect (ICE) data flow, circuit tracing, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Version 2: Lectures and laboratories in system data flow; radar and interconnection equipment circuit analysis; basic DC and AC circuit analysis; vacuum tubes, including rectifiers, HF amplifiers, regulators, doublers, cathode followers, clamping circuits, sweep generators, oscillators, and multivibrators; principles of radar, radar and interconnect (ICE) data flow, circuit tracing, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Version 3: Lectures and laboratories in DC and AC circuits, with introduction to transformers and machines; vacuum tubes, including rectifiers, HF amplifiers, regulators, doublers, cathode followers, clamping circuits, sweep generators, oscillators, and multivibrators; principles of radar, radar and interconnect (ICE) data flow, circuit tracing, and power supplies and distribution; APS-64 transmitter, receiver, video, sweep, range, and azimuth channels; and maintenance procedures.

Version 4: Lectures and laboratories in fundamentals of K-series bomb navigation systems and operation, data flow, circuit analysis, and maintenance of APS-23A radar sets and K-series interconnection equipment.

Credit Recommendation: Version 1: No credit because of the military nature of the course.
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COURSE EXHIBITS

AF-1715-0213
AN/FPS-26A RADAR FIELD AND ORGANIZATIONAL (F & Q) MAINTENANCE
(SPECIAL TRAINING AN/FPS-26A (FIELD AND ORGANIZATIONAL MAINTENANCE))

Course Number: 3AZR372-4;
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 9 weeks (270 hours).
Exhibit Dates: 12/66-12/73.
Objectives: To train maintenance personnel to maintain a specific radar system.
Instruction: Lectures and practical exercises in the maintenance of the AN/FPS-26A radar set, including principles of operation, components, block diagram analysis, transmitter and receiver analysis, performance monitors and radar display, counts, block diagram and circuit analysis, ancillary equipment, and troubleshooting procedures.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0214
SPECIAL TRAINING, AN/FPS-7, FIELD AND ORGANIZATION (F & Q) MAINTENANCE

Course Number: 2ASR30372-6.
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 11 weeks (330 hours).
Exhibit Dates: 6/68-12/73.
Objectives: To train maintenance personnel to maintain and repair AN/FPS-7 radars.
Instruction: Lectures and practical exercises in the maintenance of the AN/FPS-7 radar equipment, including function and arrangement of subassemblies and components, amplification, and power distribution in the transmitter and timing systems, antenna equipment and console, and the MTI system.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0215
SPECIAL COURSE AN/APX-25
(TRANSPOUNDER SET AN/APX-25)

Course Number: SS30170-13.
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 6/55-12/68.
Objectives: To train radio repairmen and electronic navigation equipment repairmen to maintain AN/APX-25 transponder sets.
Instruction: Lectures and practical exercises in the maintenance of the AN/APX-25 transponder set, including power supply, receiver channel, decoder channel, coding channel, transmitter channel, and auxiliary circuits.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0216
1. GUNNERY TRAINER SPECIALIST
2. GUNNERY TRAINER SPECIALIST
3. GUNNERY TRAINER SPECIALIST
4. GUNNERY TRAINER SPECIALIST (APG-TI, TIA)

(GUNNERY TRAINER SPECIALIST (AN/APG-TI, TIA))

Course Number: Version 1: ABR34430-1;
Version 2: ABR34430.
Version 3: ABR34430.
Version 4: ABR34430B.
Location: Version 1: 3345th Technical School, Chanute AFB, IL.
Version 2: 3415th Technical School, Lowry AFB, CO.
Version 3: 3415th Technical School, Lowry AFB, CO.
Version 4: 3415th Technical School, Lowry AFB, CO.
Length: Version 1: 26 weeks (750 hours).
Version 2: 24 weeks (930 hours).
Version 3: 29 weeks (780 hours).
Version 4: 25-32 weeks (750-870 hours).
Version 3: 10/60-6/64.
Version 4: 12/55-9/60.
Objectives: To train enlisted personnel to operate and maintain specific radar equipment.
Instruction: Instruction: All Versions: Lectures and practical exercises in AN/APG-TI, TIA radar equipment operation and maintenance, including electronic principles, radar principles, and operation and maintenance of specific radar sets. Version 1: Instruction includes development of target position voltages; development of target and interference; relay section and scoring devices operation and maintenance; and OA-474 simulator group maintenance, alignment, and troubleshooting. Version 2: Instruction includes development of target position voltages; development of target and interference; relay section and scoring devices operation and maintenance; and OA-474 simulator group maintenance, alignment, and troubleshooting. Version 3: Instruction includes development of target position voltages; development of target and interference; relay section and scoring devices operation and maintenance; and OA-474 simulator group maintenance, alignment, and troubleshooting. Version 3: Instruction includes development of target position voltages; development of target and interference; relay section and scoring devices operation and maintenance; and OA-474 simulator group maintenance, alignment, and troubleshooting. Version 4: Instruction includes development of target position voltages; development of target and interference; relay section and scoring devices operation and maintenance; and OA-474 simulator group maintenance, alignment, and troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0217
FLIGHT FACILITIES EQUIPMENT REPAIRMAN
(TACAN)

Course Number: Version 1: AB30431C.
Version 2: AB30431C.
Location: Version 1: 3380th Technical School, Keesler AFB, MS.
Version 2: 3315th Technical School, Scott AFB, IL.
Length: Version 1: 30 weeks (810 hours).
Version 2: 15 weeks (420 hours).
Exhibit Dates: Version 1: 8/58-12/68.
Version 2: 2/57-7/58.
Objectives: To train enlisted personnel to repair TACAN radio equipment.
Instruction: Lectures and practical exercises in amplification principles, superheterodyne receiver principles; TACAN equipment introduction; and analysis, troubleshooting, maintenance, and repair of AN/URN-3 TACAN equipment power supply, monitor receiver, and pulse circuits.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0218
SPACE OBJECT IDENTIFICATION ANALYST/ SPACE TRACKING TECHNICIAN

Course Number: 3AZR20550;
3AZR29450; 3AZR27550-1.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 4-6 weeks (168 hours).
Exhibit Dates: 4/68-Present.
Objectives: To train enlisted personnel to perform as space object identification analysts and technicians.
Instruction: Lectures and practical exercises in principles of satellite motion, factors affecting radar cross section, and techniques of Quick Look analysis of SOI records.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0219
SPACETRACK SURVEILLANCE TECHNICIAN (SPACETRACK SURVEILLANCE OPERATOR/ TECHNICIAN)

Course Number: 3AZR27650-1.
3AZR27550-1.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 4 weeks (120 hours).
Exhibit Dates: 4/68-12/73.
Objectives: To train enlisted personnel to perform as spacetrack technicians.
Instruction: Lectures and practical exercises in system description and familiarization, basic principles of orbital motion,
basic tracking and detection, radar principles, radar systems and capabilities, space sensors, computer principles, tasking and mission planning, worldwide space programs, and space object identification principles.

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

AF-1715-0220

ADVANCED MICROWAVE MEASUREMENTS

Course Number: 3AZR32470-6.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 4 weeks (120 hours).
Exhibit Dates: 10/67-12/73.
Objectives: To train enlisted personnel to make advanced microwave measurements.

Instruction: Lectures and practical exercises in the measurement of advanced microwave equipment, including instruction in transmitting lines and microwave equipment, microwave generation and detection, microwave impedance, measurement of microwave power, VSWR, attenuation, and frequency spectrum analysis and measurement.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in microwave measurement (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0221

ELECTRONIC COMMUNICATIONS
CRYPTOGRAPHIC REPAIRMAN
ENCRYPTED DIGITAL DATA TERMINALS (PREPARATORY)

Course Number: 3ABR3620F.
Location: 375th Technical School, Sheppard AFB, TX.
Length: 20 weeks (570 hours).
Exhibit Dates: 5/69-12/73.
Objectives: To train enlisted personnel with basic training in maintenance of electronic communications cryptographic equipment and encrypted digital data terminals.

Instruction: Lectures and laboratories in DC and AC circuits; solid-state devices, test equipment, and logic circuits; and maintenance, repair, and adjustment of cryptographic devices associated with Autotin terminals.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0224

1. AIRCRAFT ELECTRONIC COUNTERMEASURES REPAIRMAN (SURVEILLANCE EQUIPMENT)

(AIRCRAFT ECM REPAIRMAN (SURVEILLANCE EQUIPMENT))

(AIRCRAFT ELECTRONIC COUNTERMEASURES REPAIRMAN (RECONNAISSANCE EQUIPMENT))

Course Number: ABR3013A.
Location: 338th Technical School, Keesler AFB, MS.
Length: 28-34 weeks (840-930 hours).
Exhibit Dates: 6/55-12/68.
Objectives: To train enlisted personnel to operate and maintain specific ECM radio and radar equipment.

Instruction: Lectures and practical exercises in ECM radio and radar equipment operation and maintenance, including descriptive treatment of AC and DC circuits, vacuum tubes and transistors, radio electronics, and microwave principles; and radio and radar equipment maintenance procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0226

GROUND RADIO MAINTENANCE TECHNICIAN
FIXED STATIONS, COMMUNICATION SYSTEMS

Course Number: AA30470C.
Location: 3310th Technical School, Scott AFB, IL.
Length: 19 weeks (570 hours).
Exhibit Dates: 4/54-12/68.
Objectives: To provide ground radio repairmen with advanced training in the maintenance, installation, and repair of ground radio equipment.

Instruction: Lectures and practical exercises in ECM radio and radar equipment operation and maintenance, including a descriptive treatment of AC and DC circuits, vacuum tubes, radio electronics, microwave principles, and radio and radar equipment maintenance principles and practices. Version 1: Instruction includes transistor principles.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics or electrical engineering (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0225

1. BOMB NAVIGATION SYSTEMS TECHNICIAN (MA-6A, MA-7A)

(BOMB NAVIGATION SYSTEMS TECHNICIAN (MA-6A))

(BOMB NAVIGATION SYSTEMS TECHNICIAN (MA-7A))

(COMPILER AND STAB AND OPTICS)

(BOMB NAVIGATION SYSTEMS TECHNICIAN (K, MA-6A, MA-7A))

(K-SERIES COMPUTER)

2. K-SERIES COMPUTER TECHNICIAN

Course Number: Version 1: AA32170ED.
Location: 3415th Technical School, Lowry AFB, CO.
Exhibit Dates: Version 1: 4/55-12/68.
Objectives: To train enlisted personnel to operate, maintain, and repair specific bomb navigation computers and stabilization and optics units.

Instruction: All Versions: Lectures and practical exercises in AC and DC circuits, tube and amplifier principles, technical publications, bomb navigation data flow, stabilization system servo loops, synchros and gyros, tracking computer maintenance, polar converter maintenance, bomb release computer, navigation control, ballistic control, optical systems, alignment, maintenance, bench checks, and troubleshooting.

Credit Recommendation: Version 1: In this lower-division baccalaureate/associate degree category, 2 semester hours in electronics or electrical engineering (12/68); in the upper-division baccalaureate category, 2 semester hours in electronics or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0227

GROUND COMMUNICATIONS EQUIPMENT REPAIRMAN (LIGHT)

Course Number: ABR30432.
Location: 3310th Technical School, Keesler AFB, MS.
Length: Version 1: 32 weeks (870 hours).
Version 2: 38 weeks (1050 hours).
Exhibit Dates: Version 1: 12/68.
Objectives: To train enlisted personnel to operate, adjust, maintain and repair low-power ground communications equipment.
COURSE EXHIBITS

Instruction: Lectures and practical exercises in electronic principles, circuit analysis, UHF and HF transmitters and receivers, radio teletype, direction finding, TV systems and associated test equipment, vacuum tube and transistor principles, multichannel transceivers, and communications systems. Instruction is descriptive rather than analytical.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (12/68).

AF-1715-0228
AN/TRC-87 FIELD AND ORGANIZATION (F & O) MAINTENANCE
Course Number: AZB30474-2.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/67-12/68.
Objectives: To train maintenance personnel to maintain AN/TRC-87 UHF communications equipment.
Instruction: Lectures and practical exercises in theory of operation, circuit and block analysis, tests, adjustment, troubleshooting, and repair of various radio components, and the use of associated test equipment.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0229
Electronic Intercept Operations SPECIALIST
Course Number: ABR29230.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 13 weeks (360 hours).
Exhibit Dates: 12/60-12/68.
Objectives: To provide enlisted personnel with basic training in the principles of electronic intercept operations.
Instruction: Lectures and practical exercises in theory and principles of electronic communication, principles, components, and terminology of electronic systems; functions, characteristics, and operation of intercept equipment; identification of electronic radiations; logs and logging procedures; and intercept station operational procedures and techniques. The course provides a highly descriptive, nonanalytical training.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0230
1. Ground Communications Equipment Technician (Light)
   (Ground Communications Equipment Maintenance Technician (Light))
2. Ground Communications Equipment Maintenance Technical (Light)
Course Number: AAR30472.
Location: 3380th Technical School, Keesler AFB, MS.

AF-1715-0231
F-104 Flight Control Specialist
Course Number: SS42353-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 5 weeks (150 hours).
Exhibit Dates: 5/58-12/68.
Objectives: To train aircraft maintenance personnel to maintain and repair the F-104 flight control system.
Instruction: Lectures and practical exercises in the maintenance and repair of flight control systems, including hydraulic systems, rigging procedures, aerodynamics, navigation equipment, electronic systems, system interlock, 3-axis danper system, various circuits, and malfunction analysis, adjustment, and inspection of flight control systems.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0232
Defensive System Trainer Technician (AN/ALQ-T4(V))
Course Number: 3AR34271-B.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 9 weeks (270 hours).
Exhibit Dates: 10/68-12/77.
Objectives: To train enlisted personnel to operate and maintain specific radar systems.
Instruction: Lectures and practical exercises in the operation, maintenance, and repair of the AN/ALQ-T4 radar equipment, including principles of electronics, circuits, receivers, and transmitters, and instruction in signal generation and system analysis.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0233
AN/FSS-7 Radar Maintenance (w/o AN/FSS Equipment) for FPS-26A Experience Personnel
Course Number: 3AZR30372-2.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 12 weeks (360 hours).
Exhibit Dates: 2/70-12/73.
Objectives: To train enlisted personnel to maintain specific ground-based radar system.
Instruction: Lectures and practical exercises in the maintenance of the AN/FSS-7 sea-launched ballistics missile radar.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0234
Aircraft Control and Warning (AC & W) Radar Repairman (AN/GLR-1/FLR-12)
Course Number: 3AZR30352-2.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 22 weeks (660 hours).
Exhibit Dates: 7/70-12/73.
Objectives: To train airmen to repair a specific digital computer radar system.
Instruction: Lectures and practical exercises in the troubleshooting and repair of AN/GLR-1/FLR-12 radar equipment, including theory and application of system running lists and functional logic diagrams as applied to data handling devices, recorders, switching networks, receivers, antennas, displays, special devices, and limited system troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0235
AN/FSS-7 Radar Maintenance (w/o AN/FSS Equipment) for Personnel w/o FPS-26A Experience
Course Number: 3AZR30372-2.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 12 weeks (360 hours).
Exhibit Dates: 2/70-12/73.
Objectives: To train enlisted personnel to maintain specific land-based radar system.
Instruction: Lectures and practical exercises in the maintenance of the AN/FSS-7 sea-launched ballistics missile radar, including instruction in transmitters, digital techniques, block-diagram analysis, receivers, antennas, drive performance, monitoring and control, generators, ancillary equipment, and countermeasures.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).
AF-1715-0236
AN/APS-107, AN/APR-31 (ER-142)
RHAW SYSTEM
Course Number: 3ASR30153-2
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (120 hours).
Exhibit Dates: 3/68-12/73.
Objectives: To train airmen to maintain the AN/APS-107 radar system.
Instruction: Lectures and practical exercises in the maintenance of the AN/APS-107 radar system, including components, block-diagram analysis of circuits, systems operation, and adjustment and alignment procedures.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0237
AN/FPS-77 METEOROLOGICAL RADAR SET, FIELD/Organizational (F/O)
Course Number: 3AZR30270.
Location: 3380th Technical School, Chanute AFB, IL.
Length: 7 weeks (210 hours).
Exhibit Dates: 4/68-12/73.
Objectives: To train maintenance personnel to maintain and operate the AN/FPS-77 meteorological radar set.
Instruction: Lectures and practical exercises in the maintenance of the AN/FPS-77 meteorological radar set, including block analysis, circuit analysis, and troubleshooting of the indicators, transmitter, receiver, and antenna servo systems, and alignment and inspection techniques.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0238
GROUND RADIO COMMUNICATIONS EQUIPMENT TECHNICIAN (AN/GRC-137)
Course Number: 5ASO30474-6.
Location: Security Service School, Goodfellow AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 9/71-12/73.
Objectives: To train radio equipment repairmen to maintain specific digital communications system equipment.
Instruction: Lectures and practical exercises in the maintenance of control site equipment, including components, operation and analysis of specific equipment, electronic fundamentals review, and use of associated test equipment. Treatment limited to the AN/URC-53 system and related equipment.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0239
GROUND COMMUNICATIONS EQUIPMENT MAINTENANCE TECHNICIAN (HEAVY)
Course Number: AAR30473.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 31-42 weeks (930-1260 hours).
Exhibit Dates: 7/59-12/68.
Objectives: To provide enlisted personnel with advanced training in heavy radio communications equipment operation and maintenance.
Instruction: Lectures and practical exercises in radio communications equipment operation and maintenance, including basic electronic principles and concepts, electronic communications problem solving, publications, advanced equipment maintenance, diversity systems, scatter communications, shop practices, advanced electronic circuits, test equipment operation and maintenance, radio teletype equipment, systems repair, shop management, and SSB, receiving, and heavy weight equipment testing and repair.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0240
GROUND COMMUNICATIONS EQUIPMENT REPAIRMAN (LONG Haul COMMUNICATIONS TECHNICIAN SIGNALS C/A AND P/P)
(GROUND COMMUNICATIONS REPAIRMAN (HEAVY)(SSB))
Course Number: AZR30454-2;
AZR30453-2.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 5 weeks (150 hours).
Exhibit Dates: 7/61-12/68.
Objectives: To train enlisted personnel to test, repair, and maintain ground radio communications systems.
Instruction: Lectures and practical exercises in SSB ground communications equipment testing and maintenance, including aerospace communications complex introduction; equipment functional analysis and block analysis; transmitter site equipment operation and troubleshooting; and SSB system transmitter, receiver, amplifier, recorder, and antenna operation, maintenance, and troubleshooting procedures.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0241
AN/FPS-35 FD RADAR MAINTENANCE
(PAPER AND PENCIL)
Course Number: 2ASR30372-16.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 20 weeks (300 hours).
Exhibit Dates: 1/69-12/73.
Objectives: To train maintenance personnel to perform as radar technicians on the AN/FPS-35 FD radar set.
Instruction: Lectures and practical exercises in maintenance of AN/FPS-35, including theory of operation, procedure for performance checks on video equipment, transmitter and receiver systems, the MAJAC console, antenna and RF system, capabilities and limitations, and checks, alignments, and troubleshooting of the radar equipment. Maintenance material is oriented to specific equipment.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0242
AN/FPS-6 AS MODIFIED BY OA-2325, FIELD ORGANIZATIONAL (F & O) MAINTENANCE
Course Number: 2ASR30372-85.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6 weeks (180 hours).
Exhibit Dates: 8/68-12/73.
Objectives: To train maintenance personnel to maintain and operate AN/FPS-6 radar sets.
Instruction: Lectures and practical exercises in the maintenance and repair of the AN/FPS-6 radar set, as modified by OA-2325, including principles of operation, performance checks, adjustment, alignment, and use of associated test equipment.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).

AF-1715-0243
GROUND RADIO COMMUNICATIONS TECHNICIAN (KWT-6 SSB)
Course Number: AZR30474-1.
Location: 3380th Technical School, Keesler AFB, TX.
Length: 5 weeks (150 hours).
Exhibit Dates: 8/65-12/68.
Objectives: To train maintenance personnel to repair a specific SSB radio system.
Instruction: Lectures and practical exercises in the operation, inspection, repair, and maintenance of a specific transistorized SSB radio system, including theory and concept of single-sideband communication, transmitter theory, and application, and analysis, alignment, and adjustment of specific systems using special and standard test equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electronics laboratory on the basis of institutional evaluation (4/74).

AF-1715-0244
AN/FPS-24 FD RADAR MAINTENANCE
(PAPER AND PENCIL)
Course Number: 2ASR30372-18.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6 weeks (210 hours).
Exhibit Dates: 11/68-12/73.
Objectives: To train enlisted personnel to maintain and repair the AN/FPS-24 radar system.
Instruction: Lectures and practical exercises in field and organizational maintenance of the AN/FPS-24 radar system, including instruction in theory of operation, capabilities and limitations, special features and theoretical performance checks, alignments, and troubleshooting. Course is equipment oriented.
Credit Recommendation: No credit because of the limited specialized nature of the course (4/74).
AF-1715-0245
GROUND RADIO COMMUNICATIONS
EQUIPMENT REPAIRMAN, WS-133A/A-M
(GROUND RADIO COMMUNICATIONS EQUIPMENT REPAIRMAN, WS-133A/A-M),
Course Number: 3AZR30434-3; AZR30434-4.
Location: 3345th Technical School,
Chesapeake AFB, IL.
Length: 6-8 weeks (192-240 hours).
Exhibit Dates: 11/64-12/73.
Objectives: To train enlisted personnel to
operate and maintain WS-133A/A-M radio
equipment communications.
Instruction: Lectures and practical exercises in ground radio communications
equipment repair, including weapon system
familiarization; voice reporting signal as-
sembly; launch facility security systems; and
the UHF command radio system operation,
alignment, and maintenance.
Credit Recommendation: No credit because of the limited specialized nature
of the course (4/74).

AF-1715-0246
AN/GPN-12 ORGANIZATIONAL/INTERMEDIATE (O/I) MAINTENANCE
Course Number: 2ASR30371-1.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 6 weeks (180 hours).
Exhibit Dates: 2/73-12/73.
Objectives: To train enlisted personnel to maintain AN/GPN-12 radar sets.
Instruction: Lectures and practical exercises in system applications, analysis of
equipment, performance tests, alignment, troubleshooting, repair, and check-out to
the subassembly level. Course is highly
equipment oriented.
Credit Recommendation: No credit because of the limited specialized nature
of the course (4/74).

AF-1715-0247
PILOTLESS AIRCRAFT CONTROL SYSTEMS MECHANIC
Course Number: AB31230.
Location: 3415th Technical School,
Lowry AFB, CO.
Length: 18 weeks (540 hours).
Exhibit Dates: 8/54-12/68.
Objectives: To train enlisted personnel to
test and repair aircraft control systems.
Instruction: Lectures and laboratories in DC and AC circuits, simple transistors,
vacuum tubes, electronic amplifiers, signal
generators, wave shaping, and assembly, in-
stallation, maintenance, and testing of
pilotless-aircraft control systems.
Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 3 semester hours in electricity
and electronics (12/68); in the upper-
division baccalaureate category, credit in
electrical laboratory on the basis of insti-
tutional evaluation (4/74).

AF-1715-0248
GROUND RADIO COMMUNICATIONS EQUIPMENT REPAIRMAN, WS-133B
(GROUND RADIO COMMUNICATIONS EQUIPMENT REPAIRMAN, WS-133B),
Course Number: 3AZR30434-4.
Location: 3345th Technical School,
Chesapeake AFB, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 4/66-12/73.
Objectives: To train airmen to operate,
repair, and maintain security and radio
terrestrial communication equipment.
Instruction: Lectures and practical exercises in the operation, repair, and main-
tenance of specific radio and security systems, test sets, and subsystems, and
tune and digital components and circuitry.
Credit Recommendation: No credit because of the limited specialized nature
of the course (4/74).

AF-1715-0249
AN/FPS-8 (MPS-11), S-6 AND GPA-122 ORGANIZATIONAL/INTERMEDIATE (O/I) MAINTENANCE
Course Number: 3AZR30372-15; 3ASR30372-10.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 6 weeks (162 hours).
Exhibit Dates: 1/73-12/73.
Objectives: To train enlisted personnel to
maintain AN/FPS-8, AN/FPS-6 radar sets
and AN/GPS-122 decoder-decoder groups.
Instruction: Lectures and practical exercises in alignment, adjustment, and
trouble shooting of radar sets, and theory of opera-
tion, fault isolation, repair, check-out, and
maintenance of coder-decoders. The course
is equipment oriented, with some instruction
in binary mathematics, logic functions, and
basic circuit modules.
Credit Recommendation: No credit because of the limited specialized nature
of the course (4/74).

AF-1715-0250
F-111A RADAR AND CONTROLS TEST STATIONS TECHNICIAN
Course Number: 3ALR32271-2.
Location: 3415th Technical School,
Lowry AFB, CO.
Length: 19 weeks (570 hours).
Exhibit Dates: 5/68-12/73.
Objectives: To train enlisted personnel to
maintain radar and controls test stations.
Instruction: Lectures and practical exercises in theory; operation, and confidence
testing of F-111A receiver-transmitter-inter-
modulator, video and servo, and indicator
test stations; and maintenance procedures,
technical publications, ground safety, and
corrosion control.
Credit Recommendation: No credit because of the limited specialized nature
of the course (4/74).

AF-1715-0251
AN/TPS-44 RADAR ORGANIZATIONAL/INTERMEDIATE (O/I) MAINTENANCE
Course Number: 2AST30352-16.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 4 weeks (160 hours).
Exhibit Dates: 4/72-12/73.
Objectives: To train enlisted personnel to
test and maintain the AN/TPS-44 radar.
Instruction: Lectures and practical exercises in system function and description, in-
cluding transmitters, AC power distribution,
solid-state devices, receivers, indicators,
and IFF/SIF; and test and maintenance
procedures.
Credit Recommendation: No credit because of the limited specialized nature
of the course (4/74).

AF-1715-0252
AN/TSQ-96 ORGANIZATIONAL/INTERMEDIATE (O/I) MAINTENANCE
Course Number: 2AST30373-2.
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 10 weeks (400 hours).
Exhibit Dates: 4/72-12/73.
Objectives: To train enlisted personnel to
perform intermediate-level testing and
maintenance on AN/TSQ-96 radar systems.
Instruction: Lectures and practical exercises in system function and description,
subsystem functions and description, and
test and maintenance procedures for radar
systems equipment.
Credit Recommendation: No credit because of the limited specialized nature
of the course (4/74).

AF-1715-0253
FLIGHT FACILITIES EQUIPMENT REPAIRMAN (RANGES AND BEACONS)
Course Number: AB30411A.
Location: 3380th Technical School,
Keesler AFB, MS. Version 2:
3310th Technical School, Scott AFB, IL.
Length: Version 1: 12 weeks (480 hours).
Version 2: 16-17 weeks (480 hours).
Objectives: To train enlisted personnel to
operate and maintain specific radar equip-
ment.
Instruction: Lectures and practical exercises in basic electronics, including AC
and DC circuits, vacuum tubes, electronic cir-
cuits, radio systems principles, and
specific radar equipment components, operation,
and maintenance techniques.
Credit Recommendation: Version 1: In the lower-
division baccalaureate/associate degree
category, 3 semester hours in electricity
or electronics (12/68); in the upper-
division baccalaureate category, credit in
electrical laboratory on the basis of insti-
tutional evaluation (4/74). Version 2: In the lower-
division baccalaureate/associate degree
category, 1 semester hour in electricity
or electronics, 1 in radio technology,
and credit in electrical laboratory on the
basis of institutional evaluation (4/74); in the
upper-division baccalaureate category, 1
semester hour in electricity and electronics
for non-electronics majors (6/74).

AF-1715-0254
AN/APN-175(V) Doppler Navigation System Maintenance
Course Number: 2ASR32874-011.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 4 weeks (170 hours).
Exhibit Dates: 8/72-12/73.
Objectives: To train personnel to main-
tain the AN/APN-175(V)-3 Doppler navigation
system.
Instruction: Lectures and practical exercises in the treatment of the components and the maintenance techniques of this radar system, including principles, characteristics, utilization, and operation of the Doppler system; block-diagram and circuit analysis; operation, inspection, and troubleshooting procedures; basic air navigation with present-position computers; and characteristics and operation of navigational computers.

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

AF-1715-0255

TEST/111-CRYPTOGRAPHIC EQUIPMENT MAINTENANCE

Course Number: SS36371-7.
Location: 3700th Military Training Wing, Lackland AFB, TX.
Length: 10 weeks (300 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train enlisted personnel to install, maintain, and repair cryptographic equipment.

Instruction: Lectures and practical exercises in cryptographic equipment and transmitter.circuitry used in cryptographic equipment, block-diagram analysis, signal flow, receiver adjustments and preventive maintenance, receipts, installation, installation procedures, and testing and adjusting.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0256

BOMB NAVIGATION SYSTEM MECHANIC (MA-6A, MA-7A SYSTEMS) TELEVISION

Course Number: AB32310G (TV).
Location: 3415th Technical School, Lowry AFB, CO.
Length: 27 weeks (720 hours).
Exhibit Dates: 1/59-12/68.
Objectives: To train enlisted personnel to be bomb navigation system mechanics.

Instruction: Television lectures and practical exercises in MA-6A and MA-7A bomb navigation systems mechanics, including AC and DC circuit principles, vacuum tubes and amplification, radar and servosystems, system radar and ICE theory and operational adjustments, after-installation checks and adjustments, and malfunction analysis.

Credit Recommendation: 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 industrial technology (3/74).

AF-1715-0257

UNIT TEST EQUIPMENT (AN/ASQ-38)

Course Number: Version 1: 3AR32150K. All Versions: AZR32150K.
Location: 3415th Technical School, Lowry AFB, CO.
Objectives: To train bomb navigation systems mechanics and technicians to repair and calibrate unit test equipment.

Instruction: Lectures and practical exercises in repair and calibration of radar test equipment, including amplifier, servo test set, electrical test set, power supply, radar data presentation, computer test set, radar performance tester, and borsight test set.


AF-1715-0258

FIRE CONTROL SYSTEMS MECHANIC, MG-10 RADAR

Course Number: AB32230G.
Location: 34th Technical School, Lackland AFB, TX.
Length: 55 weeks (1650 hours).
Exhibit Dates: 7/56-12/68.
Objectives: To train enlisted personnel to analyze and maintain MG-10 fire control systems.

Instruction: Lectures and practical exercises in MG-10 fire control systems maintenance and repair, including electrical theory, basic electronics, block-diagram analysis, signal flow, automatic flight control and data link, power generation and distribution, maintenance procedures, and field exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 2 semester hours in industrial technology for non-engineering majors (4/74).

AF-1715-0259

1. DEFENSIVE FIRE CONTROL SYSTEMS TECHNICIAN (A-3A, MD-9, ASG-15 TURRETS)

2. DEFENSIVE FIRE CONTROL SYSTEMS TECHNICIAN (A-3A, MD-9, ASG-15 TURRETS)

3. TURRET SYSTEMS TECHNICIAN (A-3A, MD-9, ASG-15 TURRETS)

Course Number: Version 1: 3AR32370G. Version 2: 3AR32370G, AAR32370G. Version 3: 3AR32370G.
Location: 3415th Technical School, Lowry AFB, CO.
Objectives: To train enlisted personnel to maintain defensive fire control systems and special test equipment.

Instruction: Lectures and practical exercises in fire control systems and special test equipment maintenance, including mechanical drive components, magnetic amplifiers, amplifiers, computer circuits, power supplies, frequency converters, modulators, pneumatic system, sweep generators, indicators, television, and radar maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74).
AF-1715-0263

BOMB NAVIGATION SYSTEMS

Version 1: 12/68-12/70.

Objectives: To train enlisted personnel to operate and maintain K, MA-6A, MA-7A bomb navigation systems.

Instruction: Lectures and practical exercises in electricity, electronics, test equipment, system data flow, power distribution, radar and interconnection equipment, installation checks, and bomb navigation system troubleshooting.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electrical laboratory (12/70); in the upper-division, baccalaureate category, 3 semester hours in electricity or electronics (12/68).

AF-1715-0265

AN/MPQ-T2A (Theory)

Course Number: 32/20335-50.

Location: School of Applied Aerospace Sciences, Keesler AFB, MS.

Length: 6 weeks (244 hours).

Exhibit Dates: 6/73-12/73.

Objectives: To train enlisted personnel to operate the AN/MPQ-T2A radar system.

Instruction: Lectures and practical exercises in the operation, functional and circuit analysis, and theoretical troubleshooting of various radar and computer components of the AN/MPQ-T2A, including system block diagram, electromagnetic radiation hazards, power distribution, transmitting systems, receiving systems, range tracking system, angle tracking systems, S/C band video display, and pedal position, and error computer and recording devices.

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

AF-1715-0266

ELECTRONIC DIGITAL DATA PROCESSING EQUIPMENT MAINTENANCE TECHNICIAN (AN/FSQ-7 SYSTEMS TECHNICIAN)

Course Number: ATS30571-34.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 6 weeks (600 hours).

Exhibit Dates: 7/62-12/68.

Objectives: To train selected AN/FSQ-7 maintenance specialists for duty as systems technicians.

Instruction: Lectures and practical exercises in the principles and applications of the AN/FSQ-7, computer, including the memory and control devices, line printer, card reader, card recorder, tape system, and other input-output devices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer laboratory (3/74); in the upper-division baccalaureate category, 4 semester hours in data processing—computer operation (12/68).

AF-1715-0267

BOMB NAVIGATION SYSTEMS (Flight Line Mechanic)

Course Number: SS32150K-2.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 15 weeks (450 hours).

Exhibit Dates: 1/12/66.

Objectives: To train enlisted personnel to maintain the MA-2/ASB-4 bomb navigation system.

Instruction: Lectures and practical exercises in the MA-2/ASB-4 bomb navigation system maintenance, including bomb, weapon computer, navigation computer, radar data processing, high-speed bombing radar, and system-maintenance procedures. Instruction is limited to general theory and maintenance of specific equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electronics laboratory on the basis of institutional evaluation (3/74).

AF-1715-0268

ELECTRONIC DIGITAL DATA PROCESSING EQUIPMENT MAINTENANCE TECHNICIAN (AN/FSQ-7 SERIES)

Course Number: AB321301.

Location: School of Applied Aerospace Sciences, Keesler AFB, MS.

Length: 21 weeks (1020 hours).

Exhibit Dates: 4/62-12/68.

Objectives: To train enlisted personnel to operate, align, adjust, and maintain K-5 bomb navigation systems and test equipment.

Instruction: Lectures and practical experience in K-5 bomb navigation systems alignment, adjustment, operation, and maintenance, including AC and DC circuit fundamentals, vacuum tubes and power supply circuits, amplifiers, and oscillator principles, servo systems, radar transmitting and receiving, computer tracking and sight, mathematics (below calculus level), optics, and organizational maintenance and associated equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electricity or electronics, and credit in electronic laboratory on the basis of institutional evaluation (3/74).

AF-1715-0269

WEAPONS CONTROL SYSTEMS MECHANIC (MG-3, MG-10, MG-33 COMPUTER AND CONTROLS)

Course Number: ALB321311E.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 8 weeks (690 hours).
AF-1715-0270

WEAPONS CONTROL SYSTEMS MECHANIC
(MG-13 COMPUTER AND CONTROLS)

Course Number: ALR32231H-2
Location: 3415th Technical School, Lowry AFB, CO.

Length: 32 weeks (960 hours).

Exhibit Dates: 7/58-12/68.

Objectives: To train enlisted personnel to check, adjust, inspect, and isolate malfunction of the computer and control functions of the MG-13 weapons control system.

Instruction: Lectures and practical exercises in computer control systems, power generation and distribution, computer circuits, test sets, data link, and field exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory for the basis of institutional evaluation (3/74).

AF-1715-0272

WEAPONS CONTROL SYSTEMS MECHANIC
(MG-3, MG-10, MG-13 COMPUTER CONTROLS)

Course Number: Version 1: AB322331H
Version 2: AB322331H.
Location: 3415th Technical School, Lowry AFB, CO.


Objectives: To train enlisted personnel to operate and maintain MG-3, MG-10, and MG-13 weapons control systems.

Instruction: All Versions: Lectures and practical exercises in MG-3, MG-10, and MG-13 weapons control systems. Objectives: train enlisted personnel to operate and maintain MG-3, MG-10, and MG-13 weapons control systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory for the basis of institutional evaluation (3/74).

AF-1715-0273

AIR SURVEILLANCE (SAGE)

Course Number: OZR1744B-4.
Location: 3380th Technical School, Keesler AFB, MS.


Objectives: To train officers to operate and direct operations in SAGE direction centers.

Instruction: Lectures and practical exercises in organizational and functional concepts, communication, symbology interpretation, equipment, and procedures of air surveillance officers in communication network centers.

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

AF-1715-0274

NAVIGATION AND BOMBING TRAINER
SPECIAL (AN/AQZ-33)

Course Number: ANB33030B.
Location: 3415th Technical School, Lowry AFB, CO.

Length: 29 weeks (840 hours).

Exhibit Dates: 4/56-12/68.

Objectives: To train enlisted personnel to inspect, operate, and repair navigation and bombing trainers and associated electronic test equipment.

Instruction: Lectures and laboratories in DC and AC circuit analysis, vacuum tube principles, amplifiers and oscillators, radar circuitry, and preventive maintenance and operation of navigation and bombing trainers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical and electronics laboratory for the basis of institutional evaluation (3/74).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74); in the upper-division baccalaureate category, 3 semester hours in electronics, and 1 in electronics laboratory for non-electrical engineering majors (3/74).

AF-1715-0275

UNIT TEST EQUIPMENT (AN/AQZ-48)

Course Number: AZR32150L.
Location: 3415th Technical School, Lowry AFB, CO.

Length: 4-5 weeks (120-150 hours).

Exhibit Dates: 11/62-12/68.

Objectives: To train bomb navigation system mechanics or technicians to operate, repair, and calibrate AN/AQZ-48 unit test equipment.

Instruction: Lectures and laboratories in the operation, circuit analysis, and calibration of unit test equipment.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0276

DATA PROCESSOR/DISPLAY (AN/FYQ-9), FIELD/ORGANIZATIONAL (F/O) MAINTENANCE

Course Number: 3AZR323573-1.
Location: 3380th Technical School, Keesler AFB, MS.

Length: 8 weeks (240 hours).

Exhibit Dates: 10/66-12/73.

Objectives: To train enlisted personnel to perform field and organizational maintenance on AN/FYQ-9 data processors and display systems.

Instruction: Lectures and laboratories in introduction to common logic equipment; basic circuit and logic symbols; power supplies, distribution, and indicator lamps; drum memory and timing; computer interface; projector displays; and read-out controls.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

AF-1715-0277

COMPASS LINK MAINTENANCE

Course Number: 3AZR30573-1.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.

Length: 4 weeks (120-153 hours).

Exhibit Dates: 7/73-12/73.

Objectives: To train maintenance personnel to maintain and operate compass link radio equipment.

Instruction: Lectures and practical exercises in the maintenance of compass link radio equipment, including principles of logic circuitry, electronic circuit analysis, principles of operation, adjustments, and system performance testing, and use of associated test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74).
AF-1715-0278

Intermediate Maintenance, A-7D
W e a p o n s Cont ro l S y s t e m ( W C S )

Course Number: 2ASR32271S
Location: 3415th Technical School, Lowry AFB, CO.
Length: 19 weeks (582 hours).
Exhibit Dates: 7/57-12/68.

Objectives: To train airmen to perform as weapon control system technicians.

Instruction: Lectures and practical exercises in the maintenance of weapon control systems, including safety and security, block diagrams, analysis, trouble analysis, flight line maintenance, use of associated test equipment, electronic principles, tactical computer analysis, control, and test set, bond-up display, and radar system.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0279

Special Training AN/TPN-12 (GCA)

Course Number: AT530371-5
Location: 3380th Technical School, Keesler AFB, MS.
Length: 5 weeks (150 hours).
Exhibit Dates: 10/59-12/68.

Objectives: To train enlisted personnel to inspect, operate, and maintain the lightweight GCA AN/TPN-12 radar set.

Instruction: Lectures and practical exercises in lightweight GCA AN/TPN-12 radar system inspection, operation, and maintenance, including functional analysis of modulator, transmitter, receiver, indicators, antenna, and power distribution subsystems. Emphasis is on adjustments, troubleshooting, and repair of equipment.

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

AF-1715-0280

Decibel, Radar Target Prediction and Simulation

Course Number: SS2044-3
Location: 375th Technical School, Sheppard AFB, TX.
Length: 2 weeks (78 hours).
Exhibit Dates: 7/57-12/68.

Objectives: To train enlisted personnel to make radar target predictions and to construct plates simulating radar presentation of the target components.

Instruction: Lectures in general radar target prediction and simulation techniques, plate cutting, and evaluation of simulation plates.

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

AF-1715-0281

R a d a r S it i n g, C a l i b r a t i o n a n d E v a l u a t i o n

Course Number: SS3041-1
Location: 3380th Technical School, Keesler AFB, MS.
Length: 2 weeks (150 hours).
Exhibit Dates: 9/54-12/68.

Objectives: To train officers to site, calibrate, and evaluate aircraft control and warning radar equipment and to supervise these activities.

Instruction: Lectures and practical exercises in electromagnetic propagation; the effects of topography and climate on radar propagation; maps, charts, and surveying; photography; and radar equipment sighting, calibration, and evaluation.

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

AF-1715-0282

Aircraft Early Warning Radar Maintenance Technician

Course Number: AAR3072
Location: 3380th Technical School, Keesler AFB, MS.
Length: 38 weeks (1140 hours).
Exhibit Dates: 9/59-12/68.

Objectives: To train enlisted personnel to maintain aircraft early warning radar equipment.

Instruction: Lectures and practical exercises in aircraft early warning radar equipment maintenance, including use of algebra and trigonometry for solving mathematical problems related to electronic circuits, circuit analysis of AC and DC circuits, transformers, switches, relays, motors, transmission lines, wave-guides, special-purpose tubes, and test equipment, and functional circuit analysis of power supplies, amplifiers, wave-shaping circuits, oscillators, servos, and modulators. Emphasis is on operation of specific equipment receivers, transmitters, indicators, antennas, and related test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0283

AN/PAO-24A System Technician

Course Number: AA32171F
Location: 3380th Technical School, Keesler AFB, MS.
Length: 15 weeks (450 hours).
Exhibit Dates: 9/54-12/68.

Objectives: To train enlisted personnel to maintain and repair the AN/PAO-24A bomb navigation system.

Instruction: Lectures and practical exercises in AN/PAO-24A bomb navigation system maintenance, including power circuit, transmitter, receiver, sweep circuits, indicators, antenna drive and control, and central power source circuit analysis. Emphasis is on test equipment usage and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0284

Ground Radio Maintenance Technician

Course Number: AA-30470A
Location: 3310th Technical School, Scott AFB, IL.
Length: 19 weeks (570 hours).
Exhibit Dates: 9/59-12/68.

Objectives: To provide radio repairmen with training in advanced maintenance techniques for ground radio equipment.

Instruction: Lectures and practical exercises in advanced maintenance techniques for ground radio equipment, including descriptive treatment of electronic test equipment, transmission lines and antennas, and radio relay equipment for all systems; radar, and radioteletypewriter equipment and systems, and UHF communications equipment; and maintenance techniques as applied to specific radio equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74).
because of the limited specialized nature of electronic principles to radar equipment. Energy; and oscillator circuits; receiver, transmitter, and vacuum tubes; vacuum tube amplifier circuits in electronics, including theory and fundamental principles of electronics.

Assistant Air Defense Artillery Directors at Keesler AFB, MS.

Objectives: To train enlisted personnel to perform, troubleshoot and maintain radar navigation systems. Instruction: Lectures and practical exercises in MA-2/ASB-4 bomb navigation systems troubleshooting and maintenance, including analysis and repair of specific electronic systems, signal flow, and block-diagram analysis.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

Air Defense Artillery Director (SAGE)

Course Number: OZR1176, OZA1176.

Location: 3380th Technical School, Sheppard AFB, TX.

Length: 4 weeks (120 hours).

Exhibit Dates: 4/63-12/66.

Objectives: To train airmen to repair aerospace photographic equipment or to maintain and install photographic equipment, including electronic photographic equipment control devices. Instruction: All Versions: Lectures and practical exercises in the repair of aerospace photographic systems or the maintenance and installation of photographic equipment, including electronic photographic equipment control devices, analysis of electrical and electronic circuits, photographic equipment systems, basic electronics principles, reconnaissance aerospace electronics photographic systems and control systems, and ground support photographic equipment. Version 1: Includes operation and components of RF-4C aerospace infrared detection and data display system. Version 2: Includes operation and components of RF-4C aerospace infrared detection and data display system, and additional instruction on electronic circuits and test equipment. Version 3: Includes motion picture projectors, IMC equipment operation and principles, sun, strike, and MP cameras and equipment, and automatic instruction on circuits and processors.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate degree category, 3 semester hours in electronics (3/74).

Objectives: To train airmen to repair aerospace photographic equipment or to maintain and install photographic equipment, including electronic photographic equipment control devices. Instruction: Lectures and practical exercises in the repair of aerospace photographic systems or the maintenance and installation of photographic equipment, including electronic photographic equipment control devices, analysis of electrical and electronic circuits, photographic equipment systems, basic electronics principles, reconnaissance aerospace electronics photographic systems and control systems, and ground support photographic equipment. Version 1: Includes operation and components of RF-4C aerospace infrared detection and data display system. Version 2: Includes operation and components of RF-4C aerospace infrared detection and data display system, and additional instruction on electronic circuits and test equipment. Version 3: Includes motion picture projectors, IMC equipment operation and principles, sun, strike, and MP cameras and equipment, and automatic instruction on circuits and processors.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate degree category, 3 semester hours in electronics (3/74).

AIR FORCE 1-153

CONTROL SYSTEMS MECHANIC (TM-61C)

Course Number: ABR31230.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 26 weeks (690 hours).

Exhibit Dates: 10/58-12/68.

Objectives: To train airmen to perform as missile control systems mechanics.

Instruction: Lectures and practical exercises in the duties of missile control systems mechanics, including basic electricity, theory, electronics, missile systems, radio and telemetry, launching and navigation systems; vacuum tubes, amplifiers, pulse shaping, and oscilloscope construction, synchros and servomechanisms, control system and gyro, pneumatic-electric system, hydraulic-electric system, computer and amplifier functions, actuating units, and specific missile equipment orientation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate degree category, 3 semester hours in electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

BALLISTIC MISSILE ANALYST SPECIALIST, (PGM-16D)

(BALLISTIC MISSILE ANALYST SPECIALIST (SM65D))

Course Number: ABR31230A.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 18 weeks (540 hours).

Exhibit Dates: 7/62-12/68.

Objectives: To train airmen to perform as apprentice ballistic missile analyst specialists.

Instruction: Lectures and practical exercises in the duties of apprentice ballistic missile analyst specialists, including weapon system familiarization; programmer and power supplies; programmer analog
AF-1715-0297

BALLISTIC MISSILE INERTIAL GUIDANCE
MECHANIC (SM-68B) (LMG-25C)

Course Number: ABR31223F
Location: Naval Technical School, Sheppard AFB, TX
Length: 8 weeks (240 hours)

Objectives: To train personnel as ballistic missile inertial guidance mechanics.

Instructor: Lectures and practical exercises on the operation of ballistic missile inertial guidance equipment, including system data flow and description of components, stabilization and erection loops and components, azimuth alignments, malfunction isolation, missile guidance computer, GCC test states and inspection, and checkout and analysis of AGC controls and components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0298

FLIGHT CONTROL SYSTEM ANALYST, SM-62

Course Number: ASL3451-61
Location: Technical Training Center, Amarillo AFB, TX
Length: 6 weeks (360 hours)

Objectives: To train personnel as flight control system analysts for SM-62 systems.

Instructor: Lectures and practical exercises on the operation and components of the SM-62, including missile familiarization, use and operation of analyzers, standard equipment, and associated ground support equipment; location and operation of flight control system modules and components; application of data flow techniques to analyze flight control system function; removal and replacement of malfunctioning modules and components; alignments and adjustments of missile flight control systems.

Credit Recommendation: In the upper-division baccalaureate category, credit in electronics and electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0299

BALLISTIC MISSILE CHECK-OUT EQUIPMENT SPECIALIST (SM-80)

Course Number: ABR31235G
Location: Naval Technical School, Sheppard AFB, TX
Length: 35-43 weeks (960-1200 hours)

Objectives: To train personnel to be ballistic missile check-out equipment specialists.

Instruction: Lectures and practical exercises in electronic fundamentals, amplifiers, oscillators, power supplies, digital logic, oscilloscopes, communications and launch control consoles, phototransistor collimator and guidance and control equipment test set, electronic programming test center operation and maintenance, aerospace ground equipment, and integrated fault isolation and calibration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0300

BALLISTIC MISSILE ANALYST SPECIALIST (PGM-16D)

Course Number: ABR31234G
Location: 3750th Technical School, Sheppard AFB, TX
Length: 18 weeks (540 hours)

Objectives: To train enlisted personnel to be ballistic missile analyst specialists.

Instruction: Lectures and practical exercises in PGM-16D missile launch control, airframe, electrical, and facility equipment; propellant storage and transfer, propellants, hydraulics, propulsion, and propellant utilization; missile guidance, flight control, and re-entry vehicle; missile systems launch control; and electrical check-out, vehicle and composite check-out, of missile systems.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical or electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0301

ELECTRICIAN/ELECTRICAL TECHNICIAN, SM-68B

Course Number: ATC54326G-1
Location: 3750th Technical School, Sheppard AFB, TX
Length: 10 weeks (300 hours)

Objectives: To train personnel as electricians and electrical technicians for SM-68B systems.

Instruction: Lectures and practical exercises in organization, operation, maintenance and repair of the electrical systems of a missile facility, including power distribution, warning and air conditioning systems, silo water and elevator systems, power supplies and test equipment, motor generators, weapon system familiarization and safety, and inspection, servicing and repair of electrical components of air conditioning systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electricity and electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0302

BALLISTIC MISSILE RADIO GUIDANCE MECHANIC (SM-68A)

Course Number: ABR31231E
Location: 3750th Technical School, Sheppard AFB, TX
Length: 20 weeks (600 hours)

Objectives: To train personnel as ballistic missile radio guidance mechanics.

Instruction: Lectures and practical exercises in electronic fundamentals, amplifiers, oscillators, power supplies, digital logic, oscilloscopes, communications and launch control consoles, phototransistor collimator and guidance and control equipment test set, electronic programming test center operation and maintenance, aerospace ground equipment, and integrated fault isolation and calibration.

Credit Recommendation: 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 evaluation (3/74).
Objectives: To train airmen who have had previous training in missile systems fundamentals to perform as apprentice ballistic missile radio guidance mechanics.

Instruction: Lectures and practical exercises in the operation and maintenance of ballistic missile radio guidance systems, including ground guidance radar data flow, guided missile test set data flow, guidance system loops (timing, tracking, monitoring, guidance exercises, maintenance, guidance conditioning, and status), missile maintenance, and inspection and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74).

AF-1715-0303 BALLISTIC MISSILE LAUNCH EQUIPMENT REPAIRMAN/TECHNICIAN, SM-68B
Course Number: ATS31276F-3.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12-13 weeks (330-390 hours).
Exhibit Dates: 1/62-12/68.
Objectives: To train enlisted personnel to maintain ballistic missile launch equipment.

Instruction: Lectures and practical exercises in the maintenance of ballistic missile launch equipment, including weapon system familiarization, analysis of digital circuitry and special circuits, launch control system, and weapon control logic analysis, launch control system, flight control system, and analysis and components of the hazard sensing and diagnostic systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (3/74).

AF-1715-0304 BALLISTIC MISSILE CHECKOUT EQUIPMENT SPECIALIST/TECHNICIAN, SM-68B
Course Number: ATS31275F-3.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 13 weeks (390 hours).
Exhibit Dates: 1/62-12/68.
Objectives: To train enlisted personnel to operate, inspect, repair, and maintain ballistic missile checkout equipment.

Instruction: Lectures and practical exercises in the operation, inspection, repair, and maintenance of ballistic missile checkout equipment, including weapon system familiarization, analysis of digital circuitry, and special circuits, launch control set operation, electronic test stand operation, fault location equipment, monitoring equipment, portable checkout equipment use, and propellant transfer system and rocket engine test.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74), 3 semester hours in electronics (3/74).

AF-1715-0305 BALLISTIC MISSILE LAUNCH EQUIPMENT TECHNICIAN, SM-80
Course Number: ATS31276G-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 18 weeks (540 hours).
Exhibit Dates: 6/62-12/68.
Objectives: To train maintenance personnel to operate, test, and maintain ballistic missile launch equipment.

Instruction: Lectures and practical exercises in the operation, testing, and maintenance of ballistic missile launch equipment, including guidance and control coupler and systems; transistors and digital techniques, specific equipment components and data processing equipment and communications systems; missile targeting and alignment set operation, power distribution, control indicator, and programmer, signal decoder and controller logic; programmer group familiarization and sequencer logic; launch control system, systems integration, and strategic missile support base equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

AF-1715-0306 ELECTRICAL POWER PRODUCTION SPECIALIST/TECHNICIAN, SM-68B
Course Number: ATS43450-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240 hours).
Exhibit Dates: 1/62-12/68.
Objectives: To train airmen to perform as electrical power production specialists/technicians in SM-68B missile facilities.

Instruction: Lectures and practical exercises in the maintenance of SM-68B missile facilities, including weapon system familiarization; operating principles and maintenance of diesel engines, systems, and components; engine governors and associated components; powerhouse auxiliary equipment; alternators, excitors, regulators, and output transformer operation; circuits in electrical power production; and use of electrical test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

AF-1715-0307 ELECTRICIAN/SUPERVISOR (SM-68)
Course Number: ATS56150-4.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 13 weeks (390 hours).
Exhibit Dates: 5/61-12/68.
Objectives: To train airmen to perform as electricians/supervisors in WS107A-2 ballistic missile installations.

Instruction: Lectures and practical exercises in the duties of electricians/supervisors in WS107A-2 ballistic missile installations, including electronic circuit analysis, troubleshooting, maintenance, repair and operation of various power supplies, computer motor-generator, guidance motor-generator, facilities sensors, detectors and amplifiers, launcher and electrical systems, hydraulic systems, and power distribution and electrical and electronic test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division category, 2 semester hours in electricity, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0308 DEFENSE MISSILE GUIDANCE MECHANIC, IM-99B
Course Number: ABR31131K.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 35 weeks (960 hours).
Exhibit Dates: 5/67-12/68.
Objectives: To train enlisted personnel to test and maintain the IM-99B missile guidance system.

Instruction: Lectures and practical exercises in the testing and maintenance of the IM-99B missile guidance system, including AC and DC principles, vacuum tubes, transistors, amplifiers, motors, servomechanisms, microwave principles, oscilloscopes, magnetism, guidance transponder, fuse and target seeker systems, and operation of the command system and specific equipment.

Credit Recommendation: 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 evaluation (3/74).

AF-1715-0309 DEFENSE MISSILE GUIDANCE MECHANIC, IM-99A
Course Number: ABR31131J.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 28 weeks (750 hours).
Exhibit Dates: 8/61-12/68.
Objectives: To train enlisted personnel to operate, maintain, inspect, and repair the IM-99A interceptor missile guidance systems and related aerospace ground equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, inspection, and repair of the IM-99A interceptor missile guidance systems and related aerospace ground equipment, including electronic fundamentals (various circuits, vacuum tubes, transistors, amplifiers, oscillators, motors, servos, multivibrators, microwave principles, and oscilloscopes), weapon and command system components, target seeker, and check-out equipment and procedures.

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

AF-1715-0310 DEFENSE MISSILE CHECKOUT EQUIPMENT TECHNICIAN, IM-99B (MISCELLANEOUS EQUIPMENT TECHNICIAN [GUIDANCE], IM-99B)
Course Number: ATS31173K-1; ATS31570N-1.
Location: 3345th Technical School, Chanute AFB, IL.
AF-1715-0311
ELECTRICAL SYSTEMS MAINTENANCE LGM-25
Course Number: AZR54250F
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 5 weeks (150 hours).
Exhibit Dates: 9/61-12/68.
Objectives: To train technicians to maintain the Titan II missile facility electric power distribution system and utility electrical aerospace ground equipment.
Instruction: Lectures and practical exercises in the maintenance of the Titan II missile facility electric power distribution system and utility electrical aerospace ground equipment, including weapon system familiarization, AC and DC principles, transistors, and power supplies, and components, operation, and analysis of specific facility systems, controls, and equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74).

AF-1715-0312
ELECTRICIANS SUPERVISOR (SM-65F)
Course Number: AT554270D-1;
AT565150-9.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 13 weeks (390 hours).
Exhibit Dates: 5/61-12/68.
Objectives: To train enlisted personnel to perform as electricians and supervisors for electrical conversion, transmission, and distribution components of the SM-65F ballistic missile and associated ground support equipment.
Instruction: Lectures and practical exercises in electrical conversion, transmission, and distribution components of the SM-65F ballistic missile and associated ground support equipment, including electrical and electronic circuits and principles, radar fundamentals, power supply circuit analysis, computer system conversion, command and fuse systems, guidance transponder operation and testing, target seeker, soldering of electronic components, and troubleshooting techniques.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, electricity, and laboratory (3/74).

AF-1715-0313
BALLISTIC MISSILE INERTIAL GUIDANCE SYSTEM TECHNICIAN/MECHANIC (SM-65F)
Course Number: ATS31722A-1;
ATS311700-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 16 weeks (480 hours).
Exhibit Dates: 5/61-12/68.
Objectives: To train enlisted personnel to perform as SM-65F guidance system technicians or mechanics.
Instruction: Lectures and practical exercises in the duties of SM-65F guidance system technicians and mechanics, including electronic theory, transistor theory and circuits, binary arithmetic, computer logic, and basic circuits, component analysis of platform and control, servomechanisms, angular deviation sensing, alignment group operation, countdown group power supply, and testing and maintenance of various systems and components.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (3/74).

AF-1715-0314
DEFENSE MISSILE GUIDANCE MECHANIC/TECHNICIAN, IM-99B
Course Number: ATS31151-1.
Location: 3345th Technical School, Chanute AFB, KS.
Length: 18 weeks (540 hours).
Exhibit Dates: 3/62-12/68.
Objectives: To train enlisted personnel to operate, test, maintain the IM-99B guidance system.
Instruction: Lectures and practical exercises in the operation, testing, and maintenance of the IM-99B guidance system, including electronic and electrical circuits and principles, radar fundamentals, power supply circuit analysis, computer system conversion, command and fuse systems, guidance transponder operation and testing, target seeker, soldering of electronic components, and troubleshooting techniques.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, electricity, and laboratory (3/74).

AF-1715-0315
MISSILE SYSTEMS ANALYST TECHNICIAN (SM-65F)
Course Number: AT531470P-8.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 2 semesters (720 hours).
Exhibit Dates: 4/61/2/68.
Objectives: To train enlisted personnel to perform as missile systems analyst technicians.
Instruction: Lectures and practical exercises in the duties of missile systems analyst technicians, including launchers and control center and missile assembly areas, including digital electronics, logic, nonlinear wave shaping, analog test assemblies, discrete test and display assemblies, launch control, system and subsystems, electrical system for missiles and facility, flight control and missile guidance systems, and inspection, monitoring, and troubleshooting of various components.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (3/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (3/74).
AF-1715-0318
CONTROL SYSTEMS MECHANIC, GAM-72
Course Number: ABR3123OQ
Location: Technical Training Center, Amarillo AFB, TX
Length: 23 weeks (600 hours).
Exhibit Dates: 2/60-12/68.
Objectives: To train airmen to perform as apprentice control systems mechanics.

Instruction: Lectures and practical exercises in the duties of apprentice control systems mechanics, including electrical fundamentals, DC and AC circuit analysis, magnetic devices, vacuum tube principles, power supplies, oscillators, wave-shaping circuits; flight control system assemblies and test equipment, aerodynamics and sensor circuits, and inspection and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (3/74); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0319
BALLISTIC MISSILE ANALYST TECHNICIAN (SM-65F)
Course Number: ATS31274D-1
Location: 375th Technical School, Sheppard AFB, TX
Length: 24 weeks (720 hours).
Exhibit Dates: 10/61-12/68.
Objectives: To train airmen to perform as missile system analysts for launch site and control and missile assembly areas.

Instruction: Lectures and practical exercises in missile systems analysis for launch site and control and missile assembly areas, including digital computer fundamentals; transistor theory; multivibrators and counters; amplifiers; power supplies; launch control, airframe, facility equipment, and electrical subsystems; propellant storage and transfer; pneumatic subsystems; hydraulic and propulsion subsystems; inertial guidance; and autopilot and re-entry vehicle operation and checkout procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (3/74); in the upper-division baccalaureate category, credit in electronics on the basis of institutional evaluation (3/74).

AF-1715-0320
CONTROL SYSTEMS ANALYST (GAM-72)
Course Number: ABR314310Q
Location: Technical Training Center, Amarillo AFB, TX
Length: 15 weeks (420 hours).
Exhibit Dates: 2/60-12/68.
Objectives: To train airmen to perform as apprentice control systems analysts for GAM-72 equipment.

Instruction: Lectures and practical exercises in the duties of apprentice control systems analysts for GAM-72 equipment, including electrical fundamentals, DC and AC circuit analysis, vacuum tube principles, DC and AC motors, test equipment and power supplies, electronic circuit analysis, missile fundamentals, missile components, computer, power supply, and inspection and maintenance procedures on specific equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68).

AF-1715-0321
BALLISTIC MISSILE CONTROL MECHANIC (HGM-25A)
(BALLISTIC MISSILE CONTROL MECHANIC (SM-68A))
Course Number: ABR13123E
Location: 375th Technical School, Sheppard AFB, TX
Length: 9 weeks (270 hours).
Exhibit Dates: 8/62-12/73.
Objectives: To train personnel who have completed a course in missile systems fundamentals to perform as apprentice ballistic missile control mechanics.

Instruction: Lectures and practical exercises on ballistic missile weapon system and flight control operation and maintenance, including weapon system familiarization, introduction to flight control system, three-axis reference assembly, command assembly, signal selector and programmer, checkout and test checkout system, checker circuit analysis and maintenance, power supply assembly, and system alignment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (3/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0322
GAM-83 PILOT GROUND TRAINER OPERATOR/MAINTENANCE
Course Number: ADS34250-3
Location: 3345th Technical School, Chanute AFB, IL
Length: 4 weeks (160 hours).
Exhibit Dates: 7/62-12/68.
Objectives: To train enlisted personnel to perform as GAM-83 pilot ground trainer operators or maintenance technicians.

Instruction: Lectures and practical exercises on the operation, maintenance, inspection, and repair of the GAM-83 missile, including general information, detailed description of missile dynamics and control; installation requirements; systems location; mathematics; basic computer theory and applications; theory and operation of computer and recorder systems; testing, troubleshooting, and repairing computer and recorder systems and components; and preparation, operation and maintenance of the visual system.

Credit Recommendation: 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 (4/74), 2 in shop management (12/68), and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0323
ELECTRONIC WARFARE TECHNICIAN (AIRCRAFT ECM MAINTENANCE TECHNICIAN)
1. AVIONICS OFFICER (OTHER)
2. AVIONICS OFFICER (OTHER)
3. ELECTRONIC WARFARE OFFICER, FIGHTER AIR
4. ELECTRONIC WARFARE OFFICER
Location: 3380th Technical School, Keesler AFB, MS.
Objectives: To train officers to supervise and manage avionics maintenance.

Instruction: Lectures and practical exercises in avionics maintenance management, including AC and DC circuits, transistors, electron tubes, power supplies, amplifiers, nonlinear wave shaping, communication techniques, microwaves, technical publications, supply functions, flight and radio navigation aids, aircraft radar systems, electronic warfare systems, and weapons control, and management and supervision.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 9 semester hours in electricity or electronics (4/74); Version 2: 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 (4/74), 2 in shop management (12/68), and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0324
ELECTRONIC TEST ENGINEER (AIRCRAFT ECM OPERATIONS ENGINEER)
AIR FORCE 1-157
1. AVIONICS OFFICER (OTHER)
2. AVIONICS OFFICER (OTHER)
3. ELECTRONIC WARFARE OFFICER (AIR ELECTRONICS OFFICER)
4. AIR ELECTRONICS OFFICER
Location: 3380th Technical School, Keesler AFB, MS.
Objectives: To train officers to supervise and manage avionics maintenance.

Instruction: Lectures and practical exercises in avionics maintenance management, including AC and DC circuits, transistors, electron tubes, power supplies, amplifiers, nonlinear wave shaping, communication techniques, microwaves, technical publications, supply functions, flight and radio navigation aids, aircraft radar systems, electronic warfare systems, and weapons control, and management and supervision.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 9 semester hours in electricity or electronics (4/74); Version 2: 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 (4/74), 2 in shop management (12/68), and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0325
AIR ELECTRONICS OFFICER, FIGHTER AIR
Location: 3380th Technical School, Keesler AFB, MS.
Length: Version 1: 36-40 weeks (1080-1200 hours), Version 2: 17-19 weeks (510-570 hours).
COURSE EXHIBITS

Objectives: To train enlisted personnel to be aircraft electronic countermeasures maintenance technicians.

Instruction: Lectures and practical exercises in electronic countermeasures maintenance techniques, including basic mathematics, AC and DC circuits, power supplies, vacuum tubes, and transistors, digital computers, electronic communication systems, and test equipment operation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics (12/68); in the lower-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0327
GUIDANCE SYSTEMS MECHANIC (BALLISTIC MISSILE INERTIAL)

Course Number: ABR31130P-2
Location: 3575th Technical School, Sheppard AFB, TX.
Length: 24 weeks (630 hours).
Exhibit Dates: 1/61-12/68.
Objectives: To train airmen to perform as apprentice guidance systems mechanics.

Instruction: Lectures and practical exercises in the duties of apprentice guidance systems mechanics, including binary mathematics, AC and DC circuits fundamentals, oscilloscope, transformers and synchronous vacuum tubes, power supplies amplifiers, wave-shaping circuits, circuit theory, electrical and electronic switch, damping and internal capacitance, vacuum tubes and power supplies, amplifier and wave-shaping circuits, basic GAR circuits and components, analysis of GAR missile systems, operation of the tracking and power function and control system, block diagram analysis of systems, check and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0328
GAR-3/A/4A FIELD AND ORGANIZATIONAL (F & O) MAINTENANCE TECHNICIAN

Course Number: ATS31150E-4
Location: 3415th Technical School, Sheppard AFB, CO.
Length: 16 weeks (360 hours).
Exhibit Dates: 10/60-12/68.
Objectives: To train experienced repairmen to maintain the GAR 3/A/4A missile.

Instruction: Lectures and practical exercises in the maintenance of the GAR 3/A/4A missile, including functional analysis of the range tracking, steering, power, armament, and propulsion systems; missile disassembly and assembly; console components and block diagrams; circuit analysis of antennas, phase, and crossover functions; range tracking computer analysis, oscilloscope and electronic switch; damping and internal power function; power supplies; associated equipment, and troubleshooting and calibration procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

AF-1715-0329
MISSILE SYSTEMS ANALYST TECHNICIAN

Course Number: ABR31130E-2
Location: 3415th Technical School, Sheppard AFB, TX.
Length: 24 weeks (630 hours).
Exhibit Dates: 1/61-12/68.
Objectives: To train airmen to perform as missile systems analyst technicians.

Instruction: Lectures and practical exercises in the duties of missile systems analyst technicians, including weapon systems familiarization, time-sharing concepts, digital communications procedures, specific equipment operation, ground equipment, aerospace vehicle equipment, integrated data flow, and fault analysis and assignment procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

AF-1715-0330
AUTOMATIC FLIGHT CONTROL SYSTEM ANALYST TECHNICIAN (HH-53)

Course Number: ABR44330L-3
Location: 3415th Technical School, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 8/71-12/73.
Objectives: To train enlisted personnel to maintain the HH-53 helicopter's automatic flight control systems.

Instruction: Lectures and practical exercises in the maintenance of the HH-53 helicopter, including electrical systems, automatic flight control systems function and components, power distribution, hydraulics, systems integration, and testing and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

AF-1715-0331
MISSILE MECHANIC (CGM-13B, LCH PREP)

Course Number: ABR44330L-3
Location: 3415th Technical School, Sheppard AFB, TX.
Length: 14 weeks (378-390 hours).
Exhibit Dates: 9/66-12/73.
Objectives: To train experienced repairmen to maintain the CGM-13B missile and to operate aerospace ground equipment.

Instruction: Lectures and practical exercises in the duties of missile mechanics for CGM-13B missiles and associated aerospace ground equipment. Missiles include fundamental principles of missile guidance and control, missile navigation system, and guidance and control system components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate category, credit in elecrtical laboratory on the basis of institutional evaluation (4/74).
### AF-1715-0332
**MISSILE SYSTEMS ANALYST TECHNICIAN (SM68)**

**Course Number:** ATS31470P-3. **Location:** 1750th Technical School, Sheppard AFB, TX. **Length:** 21 weeks (630 hours). **Exhibit Dates:** 2/61-12/68.

**Objectives:** To train enlisted personnel to perform as missile systems analyst technicians. **Instruction:** Lectures and practical exercises in the duties of missile systems analyst technicians, including basic electricity, electrical systems equipment operation and analysis, missile engine operation and components, propulsion and hydraulic systems, flight control system operation and testing, radio guidance system (radar operation, computer, guidance sets and test sets), launcher system and antenna protecting and elevating set, re-entry vehicle and control center consoles and control equipment, ground handling equipment, communications, and check-out and maintenance procedures.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity laboratory (4/74).

### AF-1715-0333
**MISSILE SYSTEMS ANALYST TECHNICIAN (TEAT), WS-133B**

**Course Number:** 3AZR31670H-1. **Location:** Version 1: School of Applied Aerospace Sciences, Chanute AFB, IL. **Version 2:** 3345th Technical School, Chanute AFB, IL. **Length:** Version 1: 12 weeks (383 hours). Version 2: 10 weeks (300 hours). **Exhibit Dates:** Version 1: 1/73-12/73. Version 2: 6/68-12/72.

**Objectives:** To train maintenance personnel as missile systems analyst technicians. **Instruction:** All Versions: Lectures and practical exercises in the duties of missile systems analyst technicians, including digital components used in guidance and control systems, cable and radio message processing control group, status authentication system, synchronizer-buffer group, and fault analysis. **Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (4/74).

### AF-1715-0334
**MISSILE TEST EQUIPMENT SPECIALIST (SM68)**

**Course Number:** ALR31510P. **Location:** 1750th Technical School, Sheppard AFB, TX. **Length:** 19 weeks (570 hours). **Exhibit Dates:** 10/60-12/68.

**Objectives:** To train airmen to perform as missile test equipment specialists. **Instruction:** Lectures and practical exercises in the operation and maintenance of missile test equipment, including basic mathematics, principles of physics, AC and DC circuits, basic electronics, solid-state devices, digital techniques, pulse circuits, digital/analog converters, launch control system, guidance equipment, and test equipment components. **Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (12/68); in the upper-division baccalaureate category, credit in electricity and electrical laboratory on the basis of institutional evaluation (4/74).

### AF-1715-0335
**MISSILE SYSTEMS ANALYST/TECHNICIAN SM-62**

**Course Number:** ATS31470B-1. **Location:** Technical Training Center, Amarillo AFB, TX. **Length:** 24 weeks (720 hours). **Exhibit Dates:** 1/59-12/68.

**Objectives:** To train personnel to perform as SM-62 missile systems analyst/technicians. **Instruction:** Lectures and practical exercises on the SM-62 missile, including missile familiarization; location of modules and components; evaluation of operational check-outs and calibrations of the flight control, guidance, optical, electronic and electromechanical systems; operation of analyzers; use of ground support equipment; and other associated systems and equipment necessary to appraise the status of the entire missile and to supervise activities in the alert area.

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

### AF-1715-0336
**MISSILE TEST EQUIPMENT TECHNICIAN, GAM**

**Course Number:** ATS31570B-1. **Location:** 3345th Technical School, Chanute AFB, IL. **Length:** 18 weeks (540 hours). **Exhibit Dates:** 4/61-12/68.

**Objectives:** To train maintenance personnel to align and repair GAM-77 special test equipment. **Instruction:** Lectures and practical exercises in the alignment and repair of GAM-77 special test equipment, including circuit analysis of block and schematic diagrams of specific test equipment; removal, replacement, and test of assemblies, components, and units of test equipment (including hydraulic and pneumatic systems service units); and trouble analysis of the interconnecting wiring of test equipment.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

### AF-1715-0337
**MISSILE TEST EQUIPMENT TECHNICIAN (PROPULSION AND PROPELLANTS) (SM68)**

**Course Number:** ATS31570P-10. **Location:** 1750th Technical School, Sheppard AFB, TX. **Length:** 18 weeks (540 hours). **Exhibit Dates:** 7/61-12/68.

**Objectives:** To train enlisted personnel to maintain missile electronic equipment. **Instruction:** Lectures and practical exercises in the maintenance of missile electronic equipment, including data flow analysis of specific system applications, propellant loading and pressurization system check-out equipment, electronic equipment test stand, and engine control system check-out equipment; light logic circuits; Titan systems familiarization; ground equipment; and inspection, troubleshooting, and repair techniques.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

### AF-1715-0338
**MISSILE TEST EQUIPMENT TECHNICIAN (CONTROL), IM-99B**

**Course Number:** ATS31570N-2. **Location:** 3345th Technical School, Chanute AFB, TX. **Length:** 20 weeks (600 hours). **Exhibit Dates:** 4/61-12/68.

**Objectives:** To train enlisted personnel to operate, maintain, and test electrical launch equipment, mobile inspection units; "weapon" support calibration equipment, and the electronic portion of control-related auxiliary equipment.

**Instruction:** Lectures and practical exercises in the operation, maintenance, and testing of electrical launch equipment, mobile inspection units; "weapon" support calibration equipment, and the electronic portion of control-related auxiliary equipment; including transistors, digital computers, printed circuits, soldering, test equipment troubleshooting procedures, and functional theory, calibration, inspection, and troubleshooting of specific equipment.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

### AF-1715-0339
**SQUADRON OPERATIONS CENTER AND DATA HANDLING EQUIPMENT REPAIRMAN**

**Course Number:** ATS30452-2. **Location:** 3345th Technical School, Chanute AFB, IL. **Length:** 16 weeks (480 hours). **Exhibit Dates:** 8/61-12/68.

**Objectives:** To train enlisted personnel to operate and maintain weapon system communications, data handling, and missile status display equipment. **Instruction:** Lectures and practical exercises in the operation and maintenance of weapon system communications, data handling, and missile status display equipment, including soldering techniques, transistor theory and logic cards, power supplies, communications system, prelaunch acquisition system translator components, command signal and control systems, launch status, battery life, and equipment, and computer test equipment; computer test equipment and analog and digital techniques, pulse circuits, digital/analog converters, launch control system, guidance equipment, and test equipment components. **Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).
category, 3 semester hours in electronics and electronics laboratory (4/74); in the upper-division baccalaureate category, 3 semester hours in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0340
MISSILE SYSTEMS ANALYST TECHNICIAN, WS-133A-M

Course Number: AZR31670G-2.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 6 weeks (192 hours).
Exhibit Dates: 7/67-12/68.

Objectives: To train personnel to perform as missile systems analyst technicians.

Instruction: Lectures and practical exercises on the theory, operation, maintenance, and inspection of guided missile electronic systems, including check-out procedures, fault isolation, adjustment, removal, replacement, and repair of missiles; missile components; aerospace ground equipment; control and monitor systems; guidance and control systems, and integrated systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (4/74).

AF-1715-0341
AIRBORNE RADIO REPAIRMAN

Course Number: AB30130-2.
Location: 3308th Technical School, Keesler AFB, MS.
Length: 31 weeks (930 hours).
Exhibit Dates: 9/54-12/68.

Objectives: To train airmen to tune, operate, maintain, and repair airborne radio and related navigational equipment at the apprentice level.

Instruction: Lectures and practical exercises in the installation, operation, maintenance, and repair of specific airborne radio and related navigational equipment. Instruction includes electronic principles, AC and DC fundamentals, vacuum tube circuits, and modulation and high-frequency techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics laboratory (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (4/74).

AF-1715-0342
AN/APX-76 INTERROGATOR FIELD/ORGANIZATIONAL (F/O) MAINTENANCE

Course Number: 2ASR30171-18.
Location: 3308th Technical School, Keesler AFB, MS.
Length: 4 weeks (120 hours).
Exhibit Dates: 3/69-12/73.

Objectives: To train enlisted personnel to maintain AN/APX-76 interrogator equipment.

Instruction: Lectures and practical exercises in the maintenance of AN/APX-76 interrogator equipment, including review of IFF principles, logic symbols and diagrams, associated aerospace ground equipment, and analysis of time-finding, coding, receiving, decoding, display, and special circuits.

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

AF-1715-0343
MISSILE OFFICER, WS-133B

Location: 3345th Technical School, Chanute AFB, IL.

Objectives: To train officers as WS-133B missile officers.


Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical theory, 1 in electrical or electronic laboratory, 1 in mechanical laboratory (7/4); in the upper-division baccalaureate category, 1 semester hour in electrical or electronic laboratory (7/74); in the lower-division baccalaureate category, 2 semester hours in management and mechanical laboratory, 1 in electrical laboratory (7/74); in the upper-division baccalaureate category, 2 semester hours in shop management (12/68).

AF-1715-0344
1. MISSILE SYSTEMS ANALYST SPECIALIST, WS-133A
2. MISSILE SYSTEMS ANALYST SPECIALIST, WS-133A (BALLISTIC MISSILE ANALYST SPECIALIST, WS-133A)

Course Number: Version 1: 3ABR31630G. All Versions: ABR31630G. Version 2: ABR31234G.
Location: 3345th Technical School, Chanute AFB, IL.

Objectives: To train airmen as WS-133A missile systems-analyst specialists.

Instruction: All Versions: Lectures and practical exercises in the operation, inspection, check-out and periodic maintenance of WS-133A systems, including the launch facility, launch control facility, support bases, aerospace ground equipment, electronic principles, propulsion systems, alignment and adjustment of targeting system, assembly and installation of components, use of standard and specialized test equipment, and inspection and maintenance.

Credit Recommendation: Version 1: Topics include missile maintenance, nuclear safety, weapon system familiarization, launch control facility familiarization, and maintenance facility familiarization. Version 2: Topics include launch facility and launch control facility power systems, and environmental control systems, corrosion control, security system, personnel access procedures, launch and communication control consoles, missile test set, communications and control system, and programmer group and guidance and control coupler and integrated systems maintenance.

AF-1715-0345
MISSILE SYSTEMS ANALYST SPECIALIST, WS-133A (BALLISTIC MISSILE ANALYST SPECIALIST, WS-133A)

Course Number: ALR31324G-3.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 18-20 weeks (540-600 hours).
Exhibit Dates: 10/65-12/68.

Objectives: To train personnel as WS-133A ballistic missile analyst specialists.

Instruction: Lectures and practical exercises in the operation, inspection, check-out, and periodic maintenance of WS-133A systems, including the launch facility, launch control facility, support base, aerospace ground equipment, electronic principles, propulsion systems, alignment and adjustment of targeting system, assembly and installation of components, use of standardized and specialized test equipment, inspection and maintenance records, and publications.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory. 2 in electronic laboratory (7/74); in the lower-division baccalaureate category, 1 semester hour in electrical laboratory (7/74). In the lower-division baccalaureate category, 4 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electronic laboratory (7/74).

AF-1715-0346
GROUND RADIO COMMUNICATIONS EQUIPMENT REPAIRMAN (AN/FLR-9(V))

Course Number: 3AZR30145-6.
Location: 3308th Technical School, Keesler AFB, MS.
Version 2: 3308th Technical School, Keesler AFB, MS.
**AF-1715-0347**

**SPECIAL ELECTRONIC EQUIPMENT SPECIAList**

**Course Number:** AB30430.1

**Location:** 3415th Technical School, Lackey AFB, CO.

**Length:** 36-39 weeks (1080 hours).

**Exhibit Dates:** 2/61-12/68.

**Objectives:** To train enlisted personnel to operate and maintain special electronic equipment.

**Instruction:** Lectures and practical experiences in electronic equipment operation and maintenance, including AC and DC electrical fundamentals, vacuum tubes, amplifiers, and control circuits, oscilloscopes, construction of oscilloscope kit, and special circuits.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in digital computer laboratory on the basis of institutional evaluation (4/74).

**AF-1715-0348**

**ELECTRONIC DIGITAL DATA PROCESSING EQUIPMENT REPAIRMAN, CENTRAL-COMPUTER (416L-AN/FSO-7)**

**Course Number:** ATS30551B-3

**Location:** 330th Technical School, Lackey AFB, MS.

**Length:** 19 weeks (760 hours).

**Exhibit Dates:** 1/62-12/68.

**Objectives:** To train enlisted personnel to be AN/FSO-7 central computer repairmen.

**Instruction:** Lectures and practical exercises in AN/FSO-7 central computer repair, including theory and application of digital data-processing and computer principles, computer numbering systems principles, AN/FSO-7 memory devices, computer control devices, and computer logic and logic circuit analysis.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in computer science; 3 as an elective in computer hardware (4/74); in the upper-division baccalaureate category, 3 semester hours as an elective in computer software, 3 as an elective in computer hardware (4/74).

**AF-1715-0349**

**ELECTRONIC DIGITAL DATA PROCESSING SPECIALIST/TECHNICIAN**

**Course Number:** ATS30551-1

**Location:** 3750th Technical School, Sheppard AFB, TX.

**Length:** 25 weeks (750 hours).

**Exhibit Dates:** 2/61-12/68.

**Objectives:** To train enlisted personnel to maintain and repair the WS-107A-2 guidance computer.

**Instruction:** Lectures and practical exercises in WS-107A-2 guidance computer operation and maintenance, including weapon system familiarization and computer fundamentals, power supplies, control section, arithmetic section, magnetic drum and electronic circuit test set, magnetic cores and digital-to-digital converter, data flow theory, operating procedures and operational checkout, troubleshooting, and replacement.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in digital computer laboratory on the basis of institutional evaluation (4/74).

**AF-1715-0350**

**SPECIAL ELECTRONICS EQUIPMENT SPECIALIST, O SYSTEM**

**Course Number:** AB30430-2

**Location:** 3415th Technical School, Lackey AFB, CO.

**Length:** 39 weeks (1080 hours).

**Exhibit Dates:** 10/56-12/68.

**Objectives:** To train enlisted personnel to operate and maintain special electronics equipment.

**Instruction:** Lectures and practical exercises in special electronics equipment operation and maintenance, including AC and DC electrical fundamentals, vacuum tubes, amplifiers, and receiver circuits, oscillators, transmitters, construction of oscilloscope kit, and special circuits.

**Credit Recommendation:** 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 electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

**AF-1715-0351**

**ELECTRONIC COMMUNICATIONS AND CRYPTOGRAPHIC EQUIPMENT SYSTEMS REPAIRMAN (ENCRYPTED DIGITAL DATA TERMINALS) (EDDT)**

**Course Number:** 3ABR30630F

**Location:** 3750th Technical School, Sheppard AFB, TX.

**Length:** 36-30 weeks (1080 hours).

**Exhibit Dates:** 8/69-12/73.

**Objectives:** To train enlisted personnel to be electronic communications and cryptographic equipment repairmen.

**Instruction:** Lectures and practical exercises in electronic communications and cryptographic equipment repair, including AC and DC circuit theory, electronic circuits, digital circuits, motors and generators, computer peripheral equipment, solid-state power supplies and amplifiers, and soldering techniques, and test equipment operation.

**Credit Recommendation:** 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 in digital computers, and credit in digital computer laboratory on the basis of institutional evaluation (4/74).

**AF-1715-0352**

**AIRCRAFT CONTROL AND WARNING OPERATOR (AIRCRAFT CONTROL AND WARNING OPERATOR (MANUAL))**

**Course Number:** ABR27330A

**Location:** 330th Technical School, Lackey AFB, MS.

**Length:** 6-11 weeks (180-240 hours).

**Exhibit Dates:** 6/55-12/68.

**Objectives:** To train enlisted personnel to be aircraft control and warning operators.

**Instruction:** Lectures and practical exercises in aircraft control and warning fundamentals, basic manual operations, surveillance station procedures, and computerized systems, including SAGE system operational concepts, automatic data conversion, computer fundamentals, BUIC operational concepts, and weapon control principles.

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

**AF-1715-0353**

**MISSILE MECHANIC, WS-133B**

**Course Number:** 3ABR44330H

**Location:** 330th Technical School, Chanute AFB, IL.

**Length:** 17-24 weeks (474-630 hours).

**Exhibit Dates:** 11/64-12/73.

**Objectives:** To train enlisted personnel to maintain WS-133B aerospace ground equipment and real-property equipment.

**Instruction:** Lectures and practical exercises in WS-133B missile fundamentals, including aerospace hardware, security, safety, and special tools, and publications; electronic fundamentals, including principles of electricity, electrical components, and electrical circuits, and AGM fundamentals, including nuclear safety, pneumatic systems, gasoline and diesel engine systems, ground heater systems, and refrigeration systems operation.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, credit in electronics and electrical laboratory on the basis of institutional evaluation (3/74).
AF-1715-0355

WEAPONS CONTROL SYSTEMS TECHNICIAN (MG-13 COMPUTER-CONTROLS)

Course Number: AAR32271H-2
Location: 3415th Technical School, Chanute AFB, IL
Length: 38 weeks (1140 hours)
Exhibit Dates: 8/58-12/68
Objectives: To train airmen to perform as weapons control systems technicians

Instruction: Lectures and practical exercises in the duties of weapons control systems technicians, including oscilloscope, meter and impedance device operation, power generation and distribution, flight sensing function, attitude indicator, jump angle ballistic computer, attack steering, timing and firing, parameter setting time, missile power and armament controlling, pilots display, and data link functions; optical sight, signal generator, and systems testing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0357

AN/TRC-97A RADIO SET, ORGANIZATION L/INTERMEDIATE (O/I) MAINTENANCE (407L)

Course Number: 3AZR30450-1
Location: School of Applied Aerospace Sciences, Keesler AFB, MS; 3380th Technical School, Keesler AFB, MS
Length: 6 weeks (168-210 hours)
Exhibit Dates: 10/68-12/73
Objectives: To train maintenance personnel to maintain the AN/TRC-97A radio set.

Instruction: Lectures and practical exercises in the operation, installation, repair, and maintenance of ground communication transmitters, receivers, transceivers, single-sideband equipment, antenna systems, and associated test equipment peculiar to missile complexes; and electronic principles, special circuits, ground C-E maintenance management, publications, maintenance data collection, and safety.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0358

GROUND RADIO COMMUNICATIONS EQUIPMENT REPAIRMAN (WS-133A/B/C)

Course Number: 3AZR30454-0
Location: 3380th Technical School, Keesler AFB, MS
Length: 6 weeks (180 hours)
Exhibit Dates: 11/68-12/73
Objectives: To train airmen to repair ground radio communication equipment.

Instruction: Lectures and practical exercises in the installation, repair, and maintenance of all electronic equipment supporting the electronic fuel control repairmen.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0359

AVIONICS OFFICER

Course Number: 30BR4041; 30BR3231
Location: 3415th Technical School, Lowry AFB, CO
Length: 21-23 weeks (678 hours)
Exhibit Dates: 7/70-12/73
Objectives: To train officers to supervise the installation, maintenance, and repair of avionics systems.

Instruction: Lectures and practical exercises in the installation, repair, and maintenance of all electronic equipment supporting the electronic fuel control repairmen.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications laboratory (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electronic communications laboratory on the basis of institutional evaluation (4/74).

AF-1715-0360

ELECTRONIC FUEL CONTROL REPAIRMAN

Course Number: AB42332
Location: 3415th Technical School, Chanute AFB, IL
Length: 19 weeks (540 hours)
Exhibit Dates: 10/54-12/68
Objectives: To train personnel as electronic fuel control repairmen.

Instruction: Lectures and practical exercises in the operation, maintenance, repair, and adjustment of electronic fuel control equipment, including fundamentals; theory and application of electrical circuits; integrated electronic control operating principles; IEC test and checkout procedures; engine starting, operation, and shutdown; and fuel control system inspection, maintenance, and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic laboratory (4/74).

AF-1715-0361

MISSILE SYSTEMS ANALYST TECHNICIAN, WE-133A-M

(MISSILE SYSTEMS ANALYST TECHNICIAN (T AND A), WS-133A-M)

Course Number: 3AZR31670G-3; 3AZR31670G-3
Location: 3345th Technical School, Chanute AFB, IL
Length: 7 weeks (198-210 hours)
Exhibit Dates: 8/67-12/73
Objectives: To train enlisted personnel to operate and maintain WS-133A-M missile electronic systems.

Instruction: Lectures and practical exercises in the operation, maintenance, and checkout of the electronic fuel control repairmen.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic laboratory (4/74).

AF-1715-0362

AIRBORNE ELECTRONIC NAVIGATION EQUIPMENT REPAIRMAN

Course Number: AB30131A; AB30131A
Location: 3380th Technical School, Keesler AFB, MS
Length: 31-32 weeks (840-960 hours)
Exhibit Dates: 11/54-12/68
Objectives: To train airman to operate, maintain, and repair airborne search-navigation radar systems, electronic navigation equipment, and associated support equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of airborne search-navigation radar systems, electronic navigation equipment, and associated support equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and avionics (4/74); in the upper-division baccalaureate/associate degree category, 2 semester hours in electronics and avionics (4/74).
tubes and transistors, amplifiers, transmitters, power supplies, modulation, microwave energy propagation and synthesis, equipment fundamentals to radar equipment, special circuits, and equipment analysis.

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

AF-1715-0363
AN/MSQ-35 RAdAR Bomb Scoring CENTrAL F/O

Course Number: AZR3035-26
Location: 3380th Technical School, Keesler AFB, MS.
Length: 17 weeks (510 hours).
Exhibit Dates: 5/65-12/68.

Objectives: To train enlisted personnel to operate, maintain, and repair the AN/MSQ-35 bomb scoring central and associated identification and test equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of the AN/MSQ-35 bomb scoring central and associated identification and test equipment in special theory, analysis, and components of acquisition radar; IFF, system, and display, analog computer, data-plotting and -recording equipment, ballistics computations group and television systems; computer principles and track mode; and troubleshooting techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0364
AIRCrAFT EARLY WARNING RADAR REPAIRMAN (FOR NAVY PERSONNEL)

Course Number: AB30132-2.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 17 weeks (510 hours).
Exhibit Dates: 11/67-12/68.

Objectives: To train enlisted personnel to maintain and repair various aircraft early warning radar sets at the apprentice level.

Instruction: Lectures and practical exercises in the maintenance and repair of various aircraft early warning radar sets, including specific search radar, airborne height finder, ground position indicator, indicator group, and identification equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electronic systems maintenance on the basis of institutional evaluation (4/74).

AF-1715-0365
RADAR EQUIPMENT AIR MAINTENANCE UPGRADING

Course Number: 152003.
Location: Flying Training Air Force, Mather AFB, CA.
Length: 6-5 weeks (116-120 hours).
Exhibit Dates: 5/65-12/68.

Objectives: To qualify experienced navigator-bomber crews of B-36 or B-47 aircraft to analyze K-system malfunctions, and to perform corrective in-flight maintenance or applicable emergency procedures.

Instruction: Lectures and practical exercises on K-system operation and K-system identification, including description of system modules, routine and emergency maintenance procedures, K-system computers, stabilization, intercom equipment, APS-23 radar, and modified K-system equipment.

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

AF-1715-0366
SPECIAL TRAINING ON AN/ASN-6 (FIELD AND ORGANIZATIONAL)

Course Number: SS30171-8.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 4/55-12/68.

Objectives: To train aircraft electronic navigation equipment repairmen and maintenance technicians, air electronics officers, or equivalent civilian personnel to perform organizational and field maintenance on AN/ASN-6 latitude and longitude computer set.

Instruction: Lectures and practical exercises in the organizational and field maintenance of AN/ASN-6 latitude and longitude computer set, including introduction to AN/ASN-6, electromechanical computations, ground speed mode, normal mode, power supplies and timing standard, troubleshooting and alignment, and special training on AN/ASN-6.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 3 semester hours in electricity and electronics, 3 credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0367
GROUND RADAR SYSTEMS SUPERVISOR/TECHNICIAN

Course Number: 3AAR30300.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 50 weeks (1440 hours).
Exhibit Dates: 11/67-12/73.

Objectives: To train enlisted personnel to perform as ground radar systems supervisors and technicians.

Instruction: Lectures and practical exercises in the basic concepts of electronics, electromechanical and management of ground radar systems, including advanced electronic principles; operation of radar transmitters, receivers, synchronizing systems, and display systems; ECCM features; frequency diversity techniques; r-f transmission lines; ground radar planning, and evaluation.

Credit Recommendation: 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, 3 in management, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0368
AUTOMATIC TRACKING RADAR REPAIRMAN

Course Number: 3ABR3033.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 37-39 weeks (1110 hours).
Exhibit Dates: 6/71-12/72.

Objectives: To train enlisted personnel to repair automatic tracking radars.

Instruction: Lectures and practical exercises in the basic concepts and techniques of radar operation and electronics with applications to radar systems, including development and application of electronic principles; circuit analysis and troubleshooting; alignment, testing, troubleshooting, and operation, maintenance, and repair of the AN/MSQ-77 radar bomb-directing central, associated identification equipment, solid-state devices, and related test equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 5 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0369
AIRCRAFT CONTROL AND WARNING (AC & W) RADAR OFFICER

Course Number: OB3041B.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 12 weeks (360 hours).
Exhibit Dates: 5/54-12/68.

Objectives: To train radar officers to operate ground electronics equipment.

Instruction: Lectures and practical exercises in ground electronics equipment operation, including AN radar systems operating characteristics and component parts, and introduction to unit operations administration and organization.

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

AF-1715-0370
SPECIAL TRAINING ON AN/APS-42A

Course Number: SS30171-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 5 weeks (150 hours).
Exhibit Dates: 2/55-12/68.

Objectives: To train aircraft electronic navigation equipment repairmen and technicians to maintain and operate radar set AN/APS-42A.

Instruction: Lectures and practical exercises on the operation and maintenance of the control unit, AN/APS-42A, including operating principles, component functions and adjustment, system timing, transmitter channel, receiver channel, sweep channel, antenna control channel, and preventive maintenance and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0371
SPECIAL TRAINING ON AN/AB-9B EQUIPMENT (DEPOT)

Course Number: SS30270-12D.
AF-1715-0374

WEAPONS CONTROL SYSTEMS TECHNICIAN (MG-13 RADAR)

Course Number: AAR32271G-2
Location: 3415th Technical School, Lowry AFB, CO.
Length: 29 weeks (870 hours).
Exhibit Dates: 8/55-12/68.

Objectives: To train enlisted personnel to operate and repair AN/APR-98 electronic countermeasures equipment.

Instruction: Lectures and practical exercises in AN/APR-98 electronic countermeasures equipment operation and repair, including equipment organization and layout, components circuit analysis, test equipment, troubleshooting, signal flow in transmitter and receiver, computer routines, checks and alignments, and repairs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester-hours in electronic laboratory on the basis of institutional evaluation (4/74).

AF-1715-0375

WEAPONS CONTROL SYSTEMS TECHNICIAN (MF-106A/B: MA-1, ASQ-25 SYSTEMS)

Course Number: AAR32271G-2
Location: 3415th Technical School, Lowry AFB, CO.
Length: 29 weeks (870 hours).
Exhibit Dates: 8/55-12/68.

Objectives: To train enlisted personnel to operate and repair AN/APR-98 electronic countermeasures equipment.

Instruction: Lectures and practical exercises in AN/APR-98 electronic countermeasures equipment operation and repair, including equipment organization and layout, components circuit analysis, test equipment, troubleshooting, signal flow in transmitter and receiver, computer routines, checks and alignments, and repairs.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester-hours in electronic laboratory on the basis of institutional evaluation (4/74).

F/EB-111 MISISON AND TRAFFIC CONTROL TEST STATION TECHNICIAN

Course Number: ABR33221A
Location: 3415th Technical School, Lowry AFB, CO.
Length: 5-6 weeks (150-180 hours).

Objectives: To train enlisted personnel to perform field- and shop-repairable maintenance on F/EB-111 mission control test stations.

Instruction: Lectures and practical exercises in F/EB-111 weapon system introduction, high-frequency communication system introduction, SSR transmission, AFC and receiver circuits signal flow, mission and traffic control test stations operation, signal flow in transmitter and receiver, computer routines, checks and alignments, and repairs.

Credit Recommendation: 3 semester-hours in electronic laboratory on the basis of institutional evaluation (4/74).
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 evaluation (4/74).

AF-1715-0376

1. MISSILE SYSTEMS ANALYST SPECIALIST
   (MISSILE SYSTEMS ANALYST SPECIALIST)
   (LGM-25)

   Course Number: 3ABR31630F
   Location: School of Applied Aerospace Sciences, Sheppard AFB, TX.
   Version 1: 3750th Technical School, 3750th Technical School, Sheppard AFB, TX.
   Length: 32 to 33 weeks (780 hours)
   Exhibition Dates: 9/72 to 11/73.

   Objectives: To train enlisted personnel to maintain the Titan II weapon system.

   Instruction: Lectures and practical exercises in the maintenance of the Titan II weapon system, including operation and data flow analysis, minor troubleshooting, inspection, and monitoring; scheduled and unscheduled maintenance of missile airframe equipment, thrust mount, and shock isolation system, electrical system (various circuits, linear wave shaping, and power supplies), launch equipment, launcher control system, propulsion system, and propellant loading and propulsion system.

   Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (4/74).

AF-1715-0378

2. AUTOMATIC FLIGHT CONTROL SYSTEMS TECHNICIAN (FIGHTERS AND B-58)

   Course Number: 2AAR31630F
   Location: 3345th Technical School, Chanute AFB, IL.
   Version 1: 3320th Technical School, Chanute AFB, IL.
   Length: 19 weeks (570 hours)
   Exhibition Dates: 1/5/64 to 12/68.

   Objectives: To train airmen to operate and maintain the Mark I guidance system.

   Instruction: Lectures and practical exercises in the maintenance and operation of the Mark I guidance system.

   Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (4/74).

GUIDANCE SYSTEM ANALYST (GAM-63 MISSILE D/A)

Course Number: AB31430C-1
Location: 3415th Technical School, Lowry AFB, CO.
Length: 24 weeks (630 hours)
Exhibition Dates: 5/57 to 12/68.

Objectives: To train basic airmen to perform as guidance system analysts on the GAM-63 missile director aircraft.

Instruction: Lectures and practical exercises in the analysis of guidance systems of the GAM-63 missile director aircraft, including electronics fundamentals, AC and DC circuit analysis, vacuum tubes, radio receiver, receiver transmitter and modulator unit system check, terminal guidance, control system, range computer, elevation computer and selector control, azimuth and elevation indicator, and the automatic check system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electricity and electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0379

3. GUIDANCE SYSTEM ANALYST
   TECHNICIAN (GAM-63 MISSILE D/A)

   Course Number: ZZ29334; ZZ30134.
   Location: 3320th Technical School, Sheppard AFB, TX.
   Length: 4 weeks (104 hours)
   Exhibition Dates: 6/61 to 12/68.

   Objectives: To train basic airmen to operate and maintain the Mark I guidance system.

   Instruction: Lectures and practical exercises in the operation and repair of missile guidance systems.

   Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electricity and electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0380

MISSILE ELECTRICAL REPAIRMAN/TECHNICIAN, SM-62

Course Number: A534450B-1.
Location: Technical Training Center, Amarillo AFB, TX.
Length: 19 weeks (570 hours)
Exhibition Dates: 1/5/64 to 12/68.

Objectives: To train airmen to operate and maintain missile guidance systems.

Instruction: Lectures and practical exercises in the maintenance and operation of missile guidance systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electricity and electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0381

GUNFIRE CONTROL SYSTEMS SPECIALIST

Course Number: ABR32570-A.
Length: 24 weeks (570 hours)
Exhibition Dates: 3/68 to 12/73.

Objectives: To train airmen to operate and maintain the Mark I guidance system.

Instruction: Lectures and practical exercises in the maintenance and operation of the Mark I guidance system, including missile familiarization, electrical systems, flight control, electronics, and environmental control systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electricity and electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0382

AIRBORNE ECM OPERATOR

(AIRBORNE ELECTRONIC COUNTERMEASURES SPECIALIST)

Course Number: ZZ299334; ZZ30134.
Location: 3335th Technical School, Keesler AFB, MS.
Length: 16 weeks (497-499 hours)
Exhibition Dates: 6/61 to 12/68.

Objectives: To train airmen to operate electronic countermeasures equipment.

Instruction: Lectures and practical exercises in the adjustment and operation of
COURSE EXHIBITS

Electronic countermeasures equipment, including AC and DC fundamentals, vacuum tubes, receiver and transmitter fundamentals, operation of specific search and analysis equipment, principles of radar, mission evaluation, and flight maintenance, electronic reconnaissance and jamming missions and tactics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics (12/68); in the upper-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (4/74).

AF-1715-0383

1. 4841, System Organization/Intermediate Maintenance (F/O) Maintenance

Course Number: Version 1: 3AZR30450. Version 2: 2AZR30470.-1

Location: 3380th Technical School, Keesler AFB, MS.

Length: Version 1: 7 weeks (210 hours), Version 2: 9 weeks (270 hours)


Objectives: To train maintenance personnel who have had previous training in solid-state and logic circuits to maintain 4841 subscriber and relay equipment.

Instruction: Lectures and practical exercises in electronic troubleshooting and calibration of specific voltmeters and digital voltmeters.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0386

Digital Voltmeter, Theory and Calibration

Course Number: 3AZR32470-9

Location: Lowry AFB, CO.

Length: 3 weeks (78 hours)

Exhibit Dates: 4/72-12/73

Objectives: To train enlisted personnel to troubleshoot and calibrate specific voltmeters and digital voltmeters.

Techniques: Lectures and practical exercises in the troubleshooting of the CIRM/1500B voltmeter and the non-linear systems series X-2 digital voltmeter, including solid-state fundamentals; principles of logic circuit analysis, amplifiers, multivibrators, and special-purpose circuits; theory and calibration of the specific voltmeter equipment.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0389

High Value Soldering and Microelectronic Repair Techniques

Course Number: 5AQ33000

Location: Security Service School, Goodfellow AFB, TX.

Length: 2 weeks (60 hours)

Exhibit Dates: 7/71-12/73

Objectives: To provide security service maintenance technicians with training in high-value soldering and microelectronic repair techniques.

Instruction: Lectures and practical exercises in familiarization with soldering repair tools, PCB board soldering, bonding methods for microcircuits, welding, thermal compression, conformal coatings, clean room techniques, and soldering and repair techniques.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0391

Weapones Control Systems Mechanic (AMCS-AERO-IA)

(Offensive Fire Control Systems Mechanic (AMCS-AERO-IA))

Course Number: ALR3232P-3

Location: Stratham Technical School, Keeler AFB, NH.

Length: 15-16 weeks (450-480 hours)

Exhibit Dates: 5/63-12/68

Objectives: To train airmen to train digital flow data, analyze and trace circuit systems, and troubleshoot, repair, and maintain weapon control systems.

Instruction: Lectures and laboratories in review of fundamentals of electronics; operation, troubleshooting, repair, calibration, and alignment of weapon control systems; and use of associated test equipment, primarily in the radar sections.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0399

486L Wideband Communications

Organizational/Intermediate (O/I) Maintenance

Course Number: 3AZR30450-5

Location: School of Applied Aerospace Sciences, Keesler AFB, MS.

Length: 8 weeks (240 hours)

Exhibit Dates: 8/72-12/73

Objectives: To train military and civilian personnel who are trained in basic maintenance of voice multiplex equipment and microwave and tropospheric scatter radio sets to perform intermediate-level maintenance.

Instruction: Lectures and practical exercises in the organizational and intermediate-level maintenance of voice multiplex equipment, and microwave and tropospheric scatter radio sets, including application, characteristics, block-diagram analysis, isolation of equipment, troubleshooting, repair, testing, alignment, and use of standard and special test equipment.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
AF-1715-0392
HM4118 ELECTRONIC COMPUTER REPAIRMAN/OPERATOR (407L)

Course Number: 3AZR30554-10
Location: School of Applied Aerospace Sciences, Keesler AFB, MS
Length: 16 weeks (480 hours)
Exhibit Dates: 1/73-12/73
Objectives: To train enlisted personnel to operate, troubleshoot, and repair electronic computers in the TACS (407L) systems.
Instruction: Lectures and practical exercises in digital computer-related equipment, including logic operations and circuits, maintenance procedures, storage, registers, input-output buffers, block-diagram analysis, printers, key punch, tape punches, magnetic tape readers, and test procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0393
TELETYPE ADAPTER MODULE/COMMON CONTROL UNIT MAINTENANCE

Course Number: 3AZR10650F
Location: 3380th Technical School, Keesler AFB, MS
Length: 7 weeks (210 hours)
Exhibit Dates: 7/72-12/73
Objectives: To train electronics technicians to maintain and repair, at the intermediate level, the DCS digital communications network teletype adapter module/common control unit.
Instruction: Lectures and practical exercises in the maintenance and repair of DCS digital communications network teletype adapter module/common control unit, including basic digital logic principles; operating principles and block- and logic-diagram analyses of specific equipment; test equipment; maintenance of the input, transmit, receive, and output sections; power supply; and trouble analysis.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in digital hardware maintenance on the basis of institutional evaluation (4/74).

AF-1715-0394
HIGH SPEED PAPER TAPE READER AND PUNCH/DSSCS

Course Number: 3AZR30554-5; 3AZR30551-8
Location: 3380th Technical School, Keesler AFB, MS
Length: 6 weeks (180 hours)
Exhibit Dates: 8/70-12/73
Objectives: To train maintenance personnel to work as card-punchers and punch card sorters in the magnetic computer area.
Instruction: Lectures and practical exercises in the maintenance and repair of high-speed paper tape readers and punch machines.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in computer hardware on the basis of institutional evaluation (4/74).

AF-1715-0395
SIMPLEX TELEPHONE EQUIPMENT MAINTENANCE AND REPAIRMAN (SACCS)

Course Number: 3AZR30534B; 3AZR30531B
Location: 3380th Technical School, Keesler AFB, MS
Length: 4 weeks (120 hours)
Exhibit Dates: 7/70-12/73
Objectives: To train electronics technicians to repair and maintain the simplex remote communications centers and subscriber-C equipment.
Instruction: Lectures and practical exercises in the repair and maintenance of the simplex remote communications center and subscriber-C equipment, including block-diagram and circuit analysis of specific analog and digital electronic equipment, electromechanical analysis and maintenance of associated missile integration printer equipment and power supplies, and troubleshooting procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic equipment maintenance on the basis of institutional evaluation (4/74).

AF-1715-0396
ELECTRONIC SWITCHING SYSTEMS REPAIRMAN (490L OVERSEAS AUTOVON)

Course Number: 3ARL36252
Location: 3750th Technical School, Sheppard AFB, TX
Length: Version 1: 24-25 weeks (720-750 hours); Version 2: 21 weeks (660 hours)
Objectives: To train airman to perform as automatic teletype and electronic switching system technicians.
Instruction: All Versions: Lectures and practical exercises in automatic teletype and electronic switching systems, including operation, maintenance, installation, and repair principles and procedures, solid-state devices, analysis and troubleshooting switch-mixer circuits and the common control system, test equipment, auxiliary circuits, and overall system trouble analysis.
Credit Recommendation: 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 evaluation (4/74).

AF-1715-0397
AIR TRAFFIC CONTROL RADAR TECHNICIAN

Objectives: To train airmen to perform as air traffic control radar and associated equipment, including radar, test and communications equipment inspection and operation, various indicators, and remote system analysis.
Instruction: All Versions: Lectures and practical exercises in the maintenance and repair of air traffic control radar and associated equipment, including radar, test and communications equipment inspection and operation, various indicators, and remote system analysis.
Credit Recommendation: 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 evaluation (4/74).

AF-1715-0398
SPECIAL TRAINING ON AN/FPN-13

Course Number: SS30371-2
Location: 3380th Technical School, Keesler AFB, MS
Length: 3 weeks (90 hours)
Exhibit Dates: 12/54-12/68
COURSE EXHIBITS

Objectives: To train air traffic control
radar repairmen to operate the AN/FPS-13
radar beacon.

Instruction: Lectures and practical exer-
cises in AN/FPS-13 radar beacon opera-
tion, including power distribution, crystal
control circuits, receiver system, coder,
clocking, transmitting system, aural moni-
tor, remote control unit, and analysis and
maintenance procedures.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 1 semester hour in electronics
laboratory (4/74).

AF-1715-0402
SPECIAL TRAINING, AN/FPS-3 (AIR FORCE)
Course Number: SS30352-5.
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 4 wks (120 hours).
Exhibit Dates: 9/59-12/68.
Objectives: To train aircraft control
and warning radar repairmen and mainten-
cance technicians, ground radar superin-
tendents, and ground electronics officers to
maintain the AN/FPS-3 radar set.
Instruction: Lectures and practical exer-
cises in the maintenance of the AN/FPS-3
radar set, including operation and main-
tenance of the power distribution, modula-
tor, transmitter-receiver, local-remote, in-
dicator, time sharing, and antenna control
groups of specific equipment.
Credit Recommendation: No credit
because of the limited specialized nature of
the course (4/74).

AF-1715-0403
SPECIAL TRAINING ON SHORAN EQUIP-
MENT AN/APN-84, WITH K-4,
AN/APN-3, WITH K-1A AND AN/
APA-54 (A)
(SPECIAL TRAINING ON SHORAN EQUIP-
MENT AN/APN-84 AND ELECTRONIC
BOMBING COMPUTER K-4)
Course Number: SS30171-6.
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 6-7 weeks (180-210 hours).
Exhibit Dates: 4/54-12/68.
Objectives: To train qualified aircraft
electronics maintenance and repair techni-
cians to熟练 and maintain SHORAN airc-
craft electronic navigation equipment.
Instruction: Lectures and practical exer-
cises in SHORAN System introduction,
hardware inspections and troubleshooting,
block-diagram analysis, system components
analysis, electronic computing equipment
inspection and troubleshooting, and per-
formance checks.
Credit Recommendation: No credit
because of the limited specialized nature of
the course (4/74).

AF-1715-0404
SPECIAL TRAINING, AN/CPS-6B AND MARK
X IFF
Course Number: SS30352-1.
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 12 weeks (360 hours).
Exhibit Dates: 8/54-12/68.
Objectives: To train aircraft control and
warning radar repairmen and maintenance
technicians, ground radar superintendents,
and ground electronics officers to maintain
the AN/CPS-6B early warning modification
and Mk X IFF.
Instruction: Lectures and practical exer-
cises in the maintenance of the AN/CPS-6B
early warning modification and Mk X IFF,
including block-diagram and circuit analy-
sis of the equipment, normal receiving, in-
dicating, moving target indicating systems,
antenna control and radome pressuring
systems, telephone and video mapping
systems, power supplies and distribution,
and maintenance room assemblies and
procedures for specific equipment.
Credit Recommendation: No credit
because of the limited specialized nature of
the course (4/74).

AF-1715-0405
AUTOMATIC TRACKING RADAR SPECIALIST
(AN/MSQ-39)
Course Number: AZR30353A.
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 17 weeks (510 hours).
Exhibit Dates: 10/61-12/68.
Objectives: To train automatic tracking
radar specialists and technicians to operate,
maintain, and repair the AN/MSQ-39 auto-
matic tracking radar system.
Instruction: Lectures and practical exer-
cises in the operation, maintenance, and
repair of the AN/MSQ-39 automatic tracking
radar system, including theory of oper-
ation of radar circuits and systems, in-
station, testing and alignment
procedures, power distribution circuits,
basics of radar system, troubleshooting
assembly groups, troubleshooting and
diagnostics tools, guidance computer,
periscope equipment, target surveillance
system, altitude indicator, solid-state devices, coder
control and video decoder, and troubleshooting
procedures.
Credit Recommendation: 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
evaluation (4/74).

AF-1715-0406
AUTOMATIC TRACKING RADAR SPECIALIST
(RATE AND TRACK SUBSYSTEMS)
(SM-65)
Course Number: ABR3033C.
Location: 3380th Technical School,
Keesler AFB, MS.
Length: 45 weeks (1260 hours).
Exhibit Dates: 8/61-12/68.
Objectives: To train personnel to
operate, maintain, and repair the SM-65
(Atlas) automatic tracking radar.
Instruction: Lectures and practical exer-
cises in the operation, maintenance, and
repair of the SM-65 (Atlas) automatic
tracking radar set including fundamentals
of electronics (AC and DC circuits,
transistors, vacuum and special tubes, elec-
tronic circuits, motors and servomechani-
cal principles, special circuits, and
microphone principles); theory of operation
of guidance, transmitter, receiver, antenna,
Doppler simulator and console subas-
system; and testing procedures for specialized
equipment. Very little mathematics in-
volved.
Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 6 semester hours in 'electricity
and electronics (12/68); in the upper-
division baccalaureate category, 6 semester
hours in electricity and electronics, and
credit in electrical laboratory on the basis
of institutional evaluation (4/74).
AF-1715-0407

SPECIAL TRAINING ON RADAR SET AN/TPS-1D

Course Number: 52-30273A-S1.
Location: 334th Technical School, Keesler AFB, MS.
Length: 6 weeks (150 hours).
Exhibit Dates: 8/52-12/68.
Objectives: To train radar mechanics and technicians to maintain AN/TPS-1D radar sets.

Instruction: Lectures and practical exercises in the maintenance of the AN/TPS-1D radar set, including familiarization with major system components, transmitter and receiver, target indicator system, power supply and distribution system, antenna control and sweep systems, and adjustment and alignment of specific equipment.

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

AF-1715-0408

AN/ART-47 and AN/ARR-71, FIELD/ORGANIZATIONAL (F & O) MAINTENANCE

Course Number: 2ASR30170A-A-206.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (120 hours).
Exhibit Dates: 1/67-12/73.
Objectives: To train enlisted personnel who have had prior training in electronics and instrumentation to operate, inspect, and maintain AN/ART-47 and AN/ARR-71 radio sets.

Instruction: Lectures and practical exercises in the operation, inspection, and maintenance of the AN/ART-47 and AN/ARR-71 radio sets, including system analysis of specialized radio and ancillary equipment, special applications of "AN/FM modulation, circuit and block-diagram analysis of equipment and test sets, and troubleshooting and alignment procedures.

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

AF-1715-0409

AN/APX-72 TRANSPLIER, FIELD/ORGANIZATIONAL (F/O) MAINTENANCE

Course Number: 2ASR30171-212.
Location: 338th Technical School, Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 12/67-12/73.
Objectives: To train airmen who have had prior training in electronics, instrumentation, and digital logic to maintain specialized electronic transponder equipment.

Instruction: Lectures and practical exercises in the maintenance of specialized electronic transponder equipment, including conversion of IF/FM principles, introduction and application of logic symbols and diagrams, analysis of AN/APX-72 transponder equipment, operation of AGE, and alignment, adjustment and troubleshooting techniques.

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

AF-1715-0410

K-5 BOMB-NAVIGATION SYSTEM (B-66)

Course Number: 3AZR32170.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 12 weeks (360 hours).
Exhibit Dates: 4/68-12/73.
Objectives: To train enlisted personnel to maintain and troubleshoot the K-5 bomb navigation system.

Instruction: Lectures and practical exercises in the maintenance and troubleshooting of the K-5 bomb navigation system, including radar transmitters and receivers, stabilization and synchronizing chains operation and components; computer tracking and sighting; computer bombing and navigation chains operation and components; and alignment and adjustment techniques.

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

AF-1715-0411

ALL-RELAY CENTRAL OFFICE EQUIPMENT SPECIALIST

Course Number: AZR36251.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240 hours).
Exhibit Dates: 9/65-12/68.
Objectives: To train installation maintenance personnel to operate, test, and maintain all-relay central office telephone equipment.

Instruction: Lectures and practical exercises in the operation, testing, and maintenance of all-relay central office telephone equipment, including functional analysis of circuits and subsystems, relays and relay codes, wiring diagrams and auxiliary circuits, and inspection and troubleshooting procedures.

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

AF-1715-0412

WEATHER EQUIPMENT REPAIRMAN

(GROUND WEATHER EQUIPMENT OPERATOR)

(BASIC WEATHER SERVICE (EQUIPMENT CHANNEL))

Course Number: Version 1: 3ABR30230.
Location: 3345th Technical School, Chanute AFB, IL.
Objectives: To train enlisted personnel to inspect, maintain, and repair weather equipment.

Instruction: Version 1: Lectures and practical exercises in electronic principles (AC and DC circuits, electron tube and transistor principles, power supplies, wave-shaping circuits, amplifier basic concepts, and oscillators), radar transmitters and receivers, and troubleshooting, maintenance, and repair of specific weather equipment. Version 2: Lectures and practical exercises in electronic principles, AC and DC circuits, electron tube and transistor principles, power supplies, wave-shaping circuits, amplifier basic concepts, and oscillators, radar transmitters and receivers, and troubleshooting, maintenance, and repair of specific weather equipment. Version 3: Lectures and practical exercises in electronic principles (AC and DC circuits, electron tube and transistor principles, power supplies, wave-shaping circuits, amplifier basic concepts and oscillators), radar transmitters and receivers, and troubleshooting, maintenance, and repair of specific weather equipment. Version 4: Lectures and exercises in elementary meteorology, weather equipment, radar sonde evaluation, and equipment laboratory.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4-semester hours in electricity or electronics. Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). Version 3: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74). Version 4: In the upper-division baccalaureate category, 3 semester hours in meteorology (12/68).
1-170

COURSE EXHIBITS

laboratory on the basis of institutional evaluation (4/74).

AF-1715-0414

SPECIAL TRAINING AN/APS-23A

Course Number: SS32171F-1
Location: 3380th Technical School, Keesler AFB, MS.
Length: 5 weeks (150 hours).
Exhibit Dates: 3/58-12/68.
Objectives: To train enlisted personnel to maintain the AN/APS-23A radar unit.
Instruction: Lectures and practical exercises in the maintenance and troubleshooting of baccalaureate/associate degree category equipment, logical signal analysis and troubleshooting.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0417

WEATHER EQUIPMENT TECHNICIAN

Location: 3345th Technical School, Chanute AFB, IL.
Objectives: To train weather equipment personnel and aimmen to perform as meteorological equipment technicians/supervisors.
Instruction: All Versions: Lectures and practical exercises in the maintenance of meteorological equipment and the supervision of meteorological equipment operation and maintenance, including analysis of various circuits, principles of transformer action, time constants, resonance, vacuum tubes, amplifiers, oscillators, power supplies, transmitter and receiver circuits, non-linear circuits, and fundamentals of radar. Version 1: Includes solid-state amplifiers, basic concepts of binary systems, logic functions and circuits, counters and storage devices, and troubleshooting of a digital runway visual range computing set. Emphasis on troubleshooting and repair. Version 2: Includes solid-state amplifiers, basic concepts of binary systems, logic functions and circuits, adder circuits, counters and storage devices, bridge circuits, AC and DC motors and generators, servos, mesh equations, FM circuits, and troubleshooting of a digital runway visual range computing set. Theoretical orientation. Version 3: Includes mathematics up to basic concepts of calculus.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (4/74). Version 3: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0418

SPECIAL TRAINING ON AN/ALT-6 EQUIPMENT (F & O) (SPECIAL TRAINING ON AN/ALT-6 EQUIPMENT (F & O))

Course Number: SS30270-3; SS30270-3D.

Location: 3380th Technical School, Keesler AFB, MS.
Length: 3 weeks (90-120 hours).
Exhibit Dates: 10/54-12/68.
Objectives: To train senior electronic countermeasures maintenance technicians to maintain the AN/ALT-6 radar set and the O-277/ALA-7 pulse generator.
Instruction: Lectures and practical exercises in the maintenance of the AN/ALT-7 radar set and the O-277/ALA-7 pulse generator, including operation and block diagram analysis of radar set power distribution and control circuits, transmitter, antenna circuit, and power supply; block diagram analysis of pulse generator; and assembly, troubleshooting and overhaul of the Radar and pulse generator units.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on
the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

**AF-1715-0421**

**SPECIAL TRAINING ON AIRBORNE RADAR BEACON AN/APN-69 (FIELD AND ORGANIZATIONAL)**

[(SPECIAL TRAINING ON AIRBORNE RADAR BEACON AN/APN-69 (DEPOT))]  
**Course Number:** SS30171-12  
**Location:** 3380th Technical School, Keesler AFB, MS.  
**Length:** 3-4 weeks (90-120 hours).  
**Exhibit Dates:** 5/55-12/68.  
**Objectives:** To train aircraft electronics superintendents, officers, and navigation equipment maintenance technicians to maintain the AN/APN-69 radar set.  
**Instruction:** Lectures and practical exercises in the maintenance of the AN/APN-69 radar set, including introduction to airborne radar beacon, block-diagram analysis of radar subassemblies, an analysis of power control, power supply, trigger control and AFC aid, coder, and transmitter; microwave circuits; and duplexer, receiver, and pulse discriminator.  
**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

**AF-1715-0422**

**AIR TRAFFIC CONTROL RADAR REPAIRMAN AN/CPN-4**

**Course Number:** ABR30132  
**Location:** 3380th Technical School, Keesler AFB, MS.  
**Length:** Version 1: 23-38 weeks (1020-1050 hours); Version 2: 16 weeks (480 hours).  
**Objectives:** To train enlisted personnel to operate, tune, and align AN/CPN-4 radar equipment.  
**Instruction:** All Versions: Lectures and practical experience in AN/CPN-4 radar equipment operation, tuning, and alignment, including search indicating system, precision indicating system, and power and operations trailer. Version 1: Instruction includes AC and DC circuits, circuit testing, RLC circuits, transients, vacuum tube electronics, and servo principles.  
**Credit Recommendation:** 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 evaluation (4/74).

**AF-1715-0423**

**SPECIAL TRAINING, AN/MSQ-1A (FIELD AND ORGANIZATIONAL) (F & O)**

**Course Number:** ATS30373-4  
**Location:** 3380th Technical School, Keesler AFB, MS.  
**Length:** 17 weeks (510 hours).  
**Exhibit Dates:** 9/58-12/68.  
**Objectives:** To train enlisted personnel having some technical experience to test, align, troubleshoot, and repair the AN/MSQ-1A radar system.  
**Instruction:** Lectures and practical exercises in AN/MSQ-1A radar system testing, alignment, troubleshooting, and repair, including circuit analysis, gear train repair, fault locating by using visual observation and performance checks, block-diagram tracing, and electrical system alignment.  
**Credit Recommendation:** See explanatory note at the beginning of the Air Force section.

**AF-1715-0424**

**SPECIAL TRAINING ON AN/APN-59**

**Course Number:** SS30171-11  
**Location:** 3380th Technical School, Keesler AFB, MS.  
**Length:** 5 weeks (150 hours).  
**Exhibit Dates:** 9/55-12/68.  
**Objectives:** To train personnel to operate, tune, and align AN/APN-59 radar system.  
**Instruction:** Lectures and practical exercises in AN/APN-59 radar system maintenance and troubleshooting, including radar system parts identification, block-diagram analysis, electrical circuit tracing, malfunction analysis, wave shape analysis, receiver and transmitter channels analysis and testing, and radar system maintenance.  
**Credit Recommendation:** 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 evaluation (4/74).

**AF-1715-0425**

**SPECIAL TRAINING, AN/APX-28**

**Course Number:** SS30170-15  
**Location:** 3310th Technical School, Scott AFB, IL.  
**Length:** 3 weeks (90 hours).  
**Exhibit Dates:** 1/56-12/68.  
**Objectives:** To train enlisted personnel to inspect, maintain, and repair the AN/APX-28 interrogator set.  
**Instruction:** Lectures in AN/APX-28 interrogator set inspection, maintenance, and repair, including system block-diagram evaluation; use of multimeters, oscilloscopes, and radar test set; receiver checking and adjustment; and tracing signal flow through system to antenna.  
**Credit Recommendation:** 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 evaluation (4/74).

**AF-1715-0426**

**SPECIAL TRAINING ON LORAN RECEIVER AN/APN-70**

**Course Number:** SS30171-5  
**Location:** 3380th Technical School, Keesler AFB, MS.  
**Length:** 3 weeks (90 hours).  
**Exhibit Dates:** 9/58-12/68.  
**Objectives:** To train air electronics superintendents, officers, and navigation equipment repairmen to maintain the AN/APN-70 Loran radar receiver.  
**Instruction:** Lectures and practical exercises in the maintenance of the AN/APN-70 Loran radar receiver, including block-diagram interpretation, analysis of power supply, receiver, timing, delay and deflection, and auxiliary circuits; and troubleshooting and alignment techniques.  
**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

**AF-1715-0427**

**AIRCRAFT EARLY WARNING RADAR REPAIRMAN**

**Location:** 3380th Technical School, Keesler AFB, MS.  
**Objectives:** To train airmen to operate, maintain, and repair aircraft early warning radar systems equipment.  
**Instruction:** All Versions: Lectures and practical exercises in the operating-maintenance, and repair of aircraft early warning radar systems equipment, including limited treatment of DC and AC circuit theory, vacuum tubes, testing procedures, amplifiers and oscillators, radar microwave principles and propagation, motors and servomechanisms, and ancillary systems and equipment. Version 1: Includes solid-state devices, receiver principles, and a fuller treatment of AC and DC circuit theory. Version 2: Includes solid-state devices, transistors, detection and discrimination procedures, and gyro reference system.  
**Credit Recommendation:** Version 1: 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 evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). 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, 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). Version 4: In the lower-division baccalaureate/associate degree category, 4 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 evaluation (4/74).
upper-division baccalaureate category; 4 semester hours in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). Version 4. 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 in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1715-0428
AN/APO-24A SYSTEM MECHANIC
Course Number: AB32130F.
Location: 3380th Technical School, Sheppard AFB, MS.
Length: 30 weeks (900 hours).
Exhibit Dates: 10/12-12/68.
Objectives: To train airmen to operate and maintain the AN/APO-24A bombing and navigation system.
Instruction: Lectures and practical exercises in the operation and maintenance of the AN/APO-24A bombing and navigation system, including basic electricity and electronics (tubes, magnetism and AC and DC currents, amplifiers, power supplies, modulation, switches, circuits, transmission, generation and propagation of microwave energy and synchros, and applications to radar equipment), and analysis of specific equipment and the associated ground position indicator.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, and credit in electrical laboratory, all on the basis of institutional evaluation (4/74).

AF-1715-0429
MISSILE FACILITIES SPECIALIST, IM-99B
Course Number: ATTS541501-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 8 weeks (240 hours).
Exhibit Dates: 5/62-12/68.
Objectives: To train enlisted personnel to inspect and maintain specialized guided missile handling and servicing equipment.
Instruction: Lectures and practical exercises in specialized guided missile handling and servicing equipment inspection and maintenance, including weapon system familiarization, ground support equipment, technical and maintenance publications, launcher—shelter system operation and maintenance, mobile test equipment operation and maintenance, and system troubleshooting procedures.
Credit Recommendation: No credit because of the military nature of the course (3/74).

AF-1715-0430
MISSILE ELECTRICAL SPECIALIST (SM-65D)
Course Number: ABR44130B.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240 hours).
Exhibit Dates: 8/6-2/12-68.
Objectives: To train enlisted personnel to maintain and repair missile and launch control electrical systems.
Instruction: Lectures and practical exercises in missile safety practices, missile construction and operation, missile and launcher, electrical and mechanical checkout procedures, and propulsion system operation and electrical sequencing.
Credit Recommendation: No credit because of limited specialized nature of the course (3/74).

AF-1715-0431
POWER PRODUCTION, OPERATION AND MAINTENANCE (SAGE)
Course Number: ATTS54350-5.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240 hours).
Exhibit Dates: 11/61-12/68.
Objectives: To train airmen to operate and maintain electrical power production facilities at SAGE installations.
Instruction: Lectures and practical exercises in the operation and maintenance of electrical power production facilities at SAGE installations, including operating principles of diesel engines and systems, and diesel system components familiarization; fundamental electrical circuit operation and analysis; power-generating, regulating, transforming, and distributing systems; switchgear circuits, motors, circuit-breakers, protection, fuses and graphic panels; power unit operation; and troubleshooting procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in diesel technology and heavy equipment (4/74).

AF-1715-0432
ELECTRICAL POWER PRODUCTION TECHNICIAN/SPECIALIST, SM-65F
Course Number: ATTS54370-2.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240 hours).
Exhibit Dates: 6/62-12/68.
Objectives: To train airmen to operate and maintain electrical power production technicians at SAGE installations.
Instruction: Lectures and practical exercises in the operation and maintenance of electrical power production facilities at SAGE installations, including operating principles of diesel engines and systems, and diesel system components familiarization; fundamental electrical circuit operation and analysis; power-generating, regulating, transforming, and distributing systems; switchgear circuits, motors, circuit-breakers, protection, fuses and graphic panels; power unit operation; and troubleshooting procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in diesel technology and heavy equipment (4/74).

AF-1715-0433
MISSILE FACILITIES SPECIALIST (SM-65D)
Course Number: ABRS54130A.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 12 weeks (360 hours).
Exhibit Dates: 8/6-2/12-68.
Objectives: To train airmen to perform as apprentice missile facilities specialists.
Instruction: Lectures and practical exercises in the operation, inspection, and maintenance of missile systems and facilities, including weapon system familiarization, propulsion and multipurpose handling equipment, launch site servicing equipment (control units, vacuum pumps, hydraulic pumps, and compressed air subsystems), special launchers and assemblies, and erection systems.
Credit Recommendation: No credit because of the military nature of the course (4/74).

AF-1715-0434
MISSILE FACILITIES SPECIALIST (SM-65D)
Course Number: DBRS54130A-1.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 18 weeks (540 hours).
Exhibit Dates: 11/61-12/68.
Objectives: To train airmen to perform as apprentice missile facilities specialists.
Instruction: Lectures and practical exercises in the duties of apprentice missile facilities specialists, including operation, maintenance, and testing of guided missile handling equipment and launch area equipment, including missile familiarization, guided missile systems, special service equipment, and the organization and function of a missile squadron.
Credit Recommendation: No credit because of the military nature of the course (4/74).

AF-1715-0435
BALLISTIC MISSILE LAUNCH EQUIPMENT REPAIRMAN (SM65E & F)
Course Number: ABR31236D.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 18 weeks (540 hours).
Exhibit Dates: 8/6-12/68.
Objectives: To train airmen to test and repair ballistic missile launch area equipment.
Instruction: Lectures and practical exercises in the testing and repair of ballistic missile launch area equipment, including special test equipment operation, circuit analysis of logic units, resisters, electronic, and missile lift system logic units; familiarization with mechanical and hydraulic components; and calibration and troubleshooting procedures.
Credit Recommendation: No credit because of the military nature of the course (4/74).

AF-1715-0436
MISSILE FACILITIES SPECIALIST (HGM-25A)
MISSILE FACILITIES SPECIALIST (SM-68A)
Course Number: ABRS54130E.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (240 hours).
Exhibit Dates: 7/6-12/68.
Objectives: To train airmen to operate and maintain SM-68 missile launch facilities systems and associated equipment.
Instruction: Lectures and practical exercises in the operation and maintenance of SM-68 guided missile weapons systems and electrical systems and associated equipment, including weapon system
familiarization, launcher hydraulic and electrical systems components, local control system, missile installation, and recurrent antenna protecting and electrical set, and missile mating and troubleshooting techniques.

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

AF-1715-0437

MISSILE FACILITIES SPECIALIST (HQM-16F) (MISSILE FACILITIES SPECIALIST (SM-55F))

Course Number: ABR5413D0
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 11 weeks (330 hours).
Exhibit Dates: 10/62-12/68.
Objectives: To train airmen to operate and maintain TSEC/KW-26 cryptographic equipment.

Instruction: Lectures and practical exercises in teletypewriter operation, encoding and decoding devices; use of circuit, diagrams, multimeters, and oscilloscopes for circuit fault diagnosis; cryptographic equipment repair through component replacement; administrative techniques; and practical troubleshooting and maintenance procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronic equipment repair, and 1 as an elective in electricity or electronics (5/74).

AF-1715-0441

ELECTRONIC DIGITAL DATA PROCESSING REPAIRMAN (DISPLAY EQUIPMENT/ SACCS)

Course Number: 3ABR30548B-2, 3ABR3053-1.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS; 3380th Technical School, Keesler AFB, MS.
Length: 35-40 weeks (1080-1118 hours).
Exhibit Dates: 9/68-12/73.
Objectives: To train enlisted personnel to maintain and repair specialized radar equipment.

Instruction: Lectures and practical exercises in electronic equipment maintenance and repair, including printer chain, display chain, projection, aerospace ground equipment, and alert-transmit console; and electronic computer principles, including computer introduction, AC and DC circuits, magnetism, vacuum tubes, and solid-state devices and circuits, Boolean algebra, computer components, computer units and programming, computer systems, and site management.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics or digital electronics, 2 in electronics or digital electronics laboratory (4/74); in the upper-division baccalaureate category, 3 semester hours as an elective in electronics (4/74).

AF-1715-0443

ELECTRONIC DIGITAL DATA PROCESSING REPAIRMAN (RCC-EDLCC/SACCS)

Location: 3380th Technical School, Lowry AFB, CO.
Objectives: To train the student to check, adjust, inspect, and isolate malfunctions in and repair specialized radar equipment and its test apparatus.

Instruction: Practical skill training in the use of oscilloscopes, multimeters, and similar equipment in first-level maintenance of radar hardware items, computer self-test and controls, power supply systems and regulators, missile transmitter and control, tuning, target detection and display, radar ranging and servo items, and antenna positioning equipment, system checks, troubleshooting, and isolating malfunctions of the above items.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electronics and electronics laboratory on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, credit in electronics and electronics laboratory on the basis of institutional evaluation (4/74).
AF-1715-0446

ELECTRONIC DIGITAL DATA PROCESSING REPAIRMAN (INPUT/OUTPUT/465L, RCC Sciences)  

Course Number: ABR30531A-2  
Location: 3380th Technical School, Keesler AFB, MS  
Length: 53 weeks (960 hours)  
Exhibit Dates: 1/63-12/68  
Objectives: To train enlisted personnel to repair electronic digital data processing equipment  

Instruction: Lectures and practical exercises in basic electronics, including DC principles through series-parallel circuits, AC circuits, principles of magnetism, transformers, relays, electronic motors, saturable reactors, magnetic amplifiers and servo amplifiers, tube and transistor fundamentals, various oscillators, multivibrators and sweep circuits, computer principles, and computer computing techniques; and electronic digital data processing repair, including computer circuit principles, digital techniques, input/ output devices, input keyboard, electrographic printer, impact printer, alert transmit console, repair procedures, and troubleshooting and maintenance procedures  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 16 semester hours in electricity or electronics, 3 in electrical laboratory (4/74)  

AF-1715-0447  

1. ELECTRONIC COMPUTER SYSTEMS REPAIRMAN (BUC)' (UYK-19)  
2. ELECTRONIC COMPUTER SYSTEMS REPAIRMAN (BUC AN/GSA-1A)  

Course Number: 3ABR30534C  
Location: School of Applied Aerospace Sciences, Keesler AFB, MS  
Version 1: 3380th Technical School, Keesler AFB, MS  
Length: 40 weeks (1200 hours)  
Exhibit Dates: 2/72-12/73, 2/73-12/73  
Objectives: To train airmen to repair electronic computer systems  

Instruction: Lectures and practical exercises in the repair of electronic computer systems, including DC and AC circuits, vacuum tube electronics, special electronic circuits review, interpret and analysis equipment, reconnaissance and jamming flights, active countermeasures, and jamming flight equipment operation and maintenance  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 1 semester hour as an elective in electronics (4/74)  

AF-1715-0448

ELECTRONIC COMPUTER SYSTEMS REPAIRMAN (DISPLAY EQUIPMENT/412L)  

Course Number: 3ALR30554  
Location: 3380th Technical School, Keesler AFB, MS  
Length: 20 weeks (588 hours)  
Exhibit Dates: 5/72-12/73  
Objectives: To train enlisted personnel to maintain the 412L display equipment at the organizational and intermediate levels  

Instruction: Practical exercises in the maintenance of the 412L display equipment, including specific equipment terminology and circuit symbology, logic/circuit analysis and maintenance of the radar data processor, track data processor, surveillance and identification group, height data group, weapons control group display, and communications group display, and application and operation of specialized test equipment  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in computer laboratory, 3 as an elective in computers (4/74); in the upper-division baccalaureate category, 2 semester hours as an-elective in computers (4/74)  

AF-1715-0449

ELECTRONIC COUNTERMEASURES OFFICER (ECM OFFICER)  

Course Number: ZZ303002  
Location: 3380th Technical School, Keesler AFB, MS  
Length: 30 weeks (927 hours)  
Exhibit Dates: 2/6-12/68  
Objectives: To train rated observers to operate and maintain specialized countermeasures equipment  

Instruction: Lectures and practical exercises in AC and DC circuits, vacuum tube electronics, special electronic circuits, review, interpret and analysis equipment, reconnaissance and jamming flights, active countermeasures, and jamming flight equipment operation and maintenance  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour as an elective in electricity or electronics (5/74)  

AF-1715-0451

MISSILE SYSTEMS ANALYST SPECIALIST (AGM-69A)  

Course Number: 3ABR316360T  
Version 1: 3ABR316360T  
Location: 3345th Technical School, Chanute AFB, IL  
Length: Version 1: 15 weeks (600 hours)  
Version 2: 30 weeks (900 hours)  
Exhibit Dates: Version 1: 6/73-12/73; 6/72-12/73  
Objectives: To train enlisted personnel to operate and check out the AGM-69A missile system  

Instruction: All Versions: Lectures and laboratories on weapon system familiarization, missile system checkout, AGM-69A missile subsystems operation and maintenance, and flight-line maintenance and repair  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74)  

AF-1715-0452

MISSILE SYSTEMS ANALYST SPECIALIST, WS-33A-M  

Course Number: 3ABR301001  
Location: School of Applied Aerospace Sciences, Chanute AFB, IL  
Version 1: 3345th Technical School, Chanute AFB, IL  
Version 2: 3345th Technical School, Chanute AFB, IL  
Length: Version 1: 30-39 weeks (870-1160 hours); Version 2: 37 weeks (1020 hours)  
Exhibit Dates: Version 1: 3/72-12/73; Version 2: 10/72-7/72  
Objectives: To train enlisted personnel to be missile system analyst specialists  

Instruction: Lectures and practical exercises in diode and transistor circuits, digital techniques, binary and octal numbers, logic functions, truth tables, Boolean algebra, logic diagrams, introduction to maintenance, AC and DC motors and generators, electron tubes, power supplies, regulators, multivibrators, blocking oscillators, AM and FM modulation and demodulation, transmitters, wave guides, transmission lines, antennas, UHF and microwave oscillators and amplifiers, circuits, circuit counters, and storage devices  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 16 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74)
Af-1715-0453
AIRBORNE METEOROLOGICAL/AEROSPACE RESEARCH EQUIPMENT (MET/ARE) REPAIRMAN

Course Number: ABR31632T.
Location: 3345th Technical School, Chanute AFB, IL.

Objectives: To train enlisted personnel to operate and inspect meteorological and atmospheric research equipment.

Instruction: Lectures and practical exercises in meteorological and atmospheric research equipment maintenance and repair, including specific equipment operation, block analysis, vertical and horizontal subsystems, data handling, subsystem control conversion subsystem, data recording, recording system, test equipment and check-out of components, dewpoint hygrometer and sea level indicator, atmospheric research equipment, equipment baccalaureate/associate degree category, 14 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 14 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74).

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 14 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 14 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74).
COURSE EXHIBITS

tion to magnetism, AC and DC motors and

tricity or electronics and credit in electrical

AF-1715-0459

MISSILE LAUNCH EQUIPMENT REPAIRMAN,

(3/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics and credit in elec-

(AF-1715-0460)

AUTOMATIC FLIGHT CONTROL SYSTEM

Specialist

Course Number: 3ABR32530-1

Location: 3345th Technical School,

Anchute AFAB, IL

Length: 34 weeks (960 hours)

Exhibit Dates: 5/71-12/73

Objectives: To train enlisted personnel to

maintain automatic flight control systems.

Instruction: Lectures and practical

e xercises in automatic flight control

systems maintenance, including basic

physical principles, electrical network,

components and analysis, basic control

theory, computers and computation,

power distribution and systems,

airframe, airplane and propeller
dynamics.

Credit Recommendation: In the lower-

division baccalaureate/associate degree
category, 14 semester hours in elec-

tricity or electronics and 2 semester hours

in electrical laboratory on the basis of

institutional evaluation (3/74); in the upper-

division baccalaureate category, 2 semester hours in electricity or electronics and credit in elec-

tricity or electronics and credit in electrical

laboratory on the basis of institutional

e valuation (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 evaluation (3/74).

Version 3. In the lower-

division baccalaureate/associate degree
category, 14 semester hours in elec-

tricity or electronics and credit in electrical

laboratory on the basis of institutional

e valuation (3/74); in the upper-

division baccalaureate category, 2 semester hours in electricity or electronics and credit in elec-

tricity or electronics and credit in electrical

laboratory on the basis of institutional evaluation (3/74).

AF-1715-0460

AUTOMATIC FLIGHT CONTROL SYSTEM

Specialist

Course Number: 3ABR32530-1

Location: 3345th Technical School,

Anchute AFAB, IL

Length: 34 weeks (960 hours)

Exhibit Dates: 5/71-12/73

Objectives: To train enlisted personnel to

maintain automatic flight control systems.

Instruction: Lectures and practical

e xercises in automatic flight control

systems maintenance, including basic

physical principles, electrical network,

components and analysis, basic control

theory, computers and computation,

power distribution and systems,

airframe, airplane and propeller
dynamics.

Credit Recommendation: In the lower-

division baccalaureate/associate degree
category, 14 semester hours in elec-

tricity or electronics and 2 semester hours

in electrical laboratory on the basis of

institutional evaluation (3/74); in the upper-

division baccalaureate category, 2 semester hours in electricity or electronics and credit in elec-

tricity or electronics and credit in electrical

laboratory on the basis of institutional evaluation (3/74).

AF-1715-0460

AUTOMATIC FLIGHT CONTROL SYSTEM

Specialist

Course Number: 3ABR32530-1

Location: 3345th Technical School,

Anchute AFAB, IL

Length: 34 weeks (960 hours)

Exhibit Dates: 5/71-12/73

Objectives: To train enlisted personnel to

maintain automatic flight control systems.

Instruction: Lectures and practical

e xercises in automatic flight control

systems maintenance, including basic

physical principles, electrical network,

components and analysis, basic control

theory, computers and computation,

power distribution and systems,
aircraft indication and control systems, maintenance management, instrument maintenance fundamentals, supply and technical order system, acceplemeter operation, periscopic sextant operation and collimation, the lower-division instruments, integrated flight and navigational instruments, electronic fundamentals, including digital techniques, electron tubes, introduction to magnetism, and DC motors and synchros, use of the oscilloscope in circuit measurement, UHF and microwave oscillators are on transceivers, power supplies, regulators, multiphase, and cavity resonators.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 16 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 15 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74).

AF-115-0463

GUIDANCE SYSTEMS MECHANIC (TM-61C)
Course Number: ABR31130H.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 16-25 weeks (450-660 hours).
Exhibit Dates: 9/58-12/68.
Objectives: To train airmen to perform apprentice guidance systems mechanics or guidance systems mechanics on TM-61C missile.

Instruction: Lectures and practical exercises in guidance systems, including principles of electricity, AC and DC circuits, principles of magnetism, transformer, vacuum tubes, amplifiers, generators, oscilloscopes, transmission lines, wave-guides, cavity resonators, microwave oscillators, wave propagation, antennas, and servo systems; guidance system components, test equipment, and radar sets; and basic station operation, system components, and data flow and circuit diagram.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AF-115-0464

OPENWAVE FIRE CONTROL SYSTEMS MECHANIC (MA.8 SYSTEM) (FIRE CONTROL SYSTEMS MECHANIC (MA.8 SYSTEM))
Course Number: ABR32230L.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 29-35 weeks (768-960 hours).
Exhibit Dates: 11/59-12/68.
Objectives: To train airmen to repair fire control systems.

Instruction: Lectures and practical exercises in the repair of fire control systems, including DC, AC, and reductive circuits and vacuum tubes and solid-state devices, amplifiers and oscillators; detection and discrimination; microwave operation; special-purpose gear, multichannel sweep and logic circuits; circuit analysis; hand tool use; special transmitters; modulators, antennas, receivers, range computers, power supplies, computing gun, bombs, rocket sights and bombing computers; and system tie-in and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0474

1. COMMUNICATIONS MAINTENANCE OFFICER
2. COMMUNICATIONS OFFICER
3. COMMUNICATIONS OFFICER
4. COMMUNICATIONS OFFICER

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics, 3 in personnel and supply management (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics, 3 in personnel and supply management (4/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics and additional credit in electricity or electronics on the basis of institutional evaluation (4/74).

AF-1715-0475

AVIONIC SENSORS SPECIALIST MECHANIC (ELECTRONIC SENSORS)
Course Number: 3ABR32930A.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 31 weeks (930 hours).
Exhibit Dates: 8/71-12/73.
Objectives: To train airmen to operate, maintain, and repair electronic aircraft sensor systems.

Instruction: Lectures and practical exercises in electronics fundamentals, and the operation, maintenance, and repair of electronic aircraft sensor systems, including DC and AC fundamentals (algebra based); tubes, transistors, power supplies, amplifiers, oscillators, wave-shaping circuits, AM, FM, single sideband, transmission lines and antennas, servomechanisms, cavity resonators, microwave principles, electrical test equipment, electronic side-looking radar (SLR) sets, infrared sensor systems, data display sets, camera parameter controls, reconnaissance laser systems, and low-light-level television sensor systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 8 semester hours in electricity or electronics, and, on the basis of institutional evaluation, 6 additional hours in electricity or electronics, and 9 in equipment maintenance, laboratory (4/74); in the upper-division baccalaureate category, 6 semester hours in electricity or electronics, and 3 additional hours in electricity or electronics on the basis of institutional evaluation (4/74).

AF-1715-0476

1. INTEGRATED AVIONICS COMPONENT SPECIALIST (NAVIGATION/FLIGHT AND WEAPONS CONTROL, DATA RECORDER SYSTEMS)
2. INTEGRATED AVIONICS COMPONENT SPECIALIST (NAVIGATION/FLIGHT AND WEAPONS CONTROL)

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics (4/74); in the upper-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics and additional credit in electronics on the basis of institutional evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 22 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (4/74). Version 3:
1-178 COURSE EXHIBITS

Instruction: All Versions: Lectures and practical exercises in maintenance electronics fundamentals, and the inspection, modification, troubleshooting, and repair of avionic components systems (navigation/flight and weapon control), communication, test equipment, airborne recorder systems, including DC and AC fundamental circuits, power supplies, amplifiers, oscillators, wave-shaping circuits, AM and FM, transmission lines, modulator/cavity resonators; components, power supplies, wave-shaping circuits; AM and FM; and additional credit in electronics on the basis of institutional evaluation (4/74).

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics. Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics on the basis of institutional evaluation (4/74).

AF-1715-0478 AVIONIC SENSOR SYSTEMS SPECIALIST (ELECTRO-OPTICAL SENSORS)

Course Number: 3ABR32930B

Location: 3415th Technical School, Lowry AFB, CO.

Instruction: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics on the basis of institutional evaluation (4/74).

AF-1715-0481 AIRCRAFT SENSOR SYSTEMS REPAIRMAN (ELECTRONIC SENSORS)

Course Number: 3ABR30135A

Location: 3415th Technical School, Lowry AFB, CO.

Instruction: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics on the basis of institutional evaluation (4/74).
AF-1715-0482

1. DEFENSIVE FIRE CONTROL SYSTEM MECHANIC (A-3A, MD-9, ASG-15
    TURRETS)

2. DEFENSIVE FIRE CONTROL SYSTEM MECHANIC (A-3A, MD-9, ASG-15
    TURRETS)

3. DEFENSIVE FIRE CONTROL SYSTEMS MECHANIC (A-3A, MD-9, ASG-15
    TURRETS)

(THE DEFENSIVE FIRE CONTROL SYSTEMS MECHANIC (A-3A, MD-9, ASG-15
TURRETS)

4. TURRET SYSTEMS MECHANIC (A-3A, MD-9, ASG-15 TURRETS)

5. TURRET SYSTEMS MECHANIC (A-3A, MD-9, ASG-15 TURRETS)

(TURRET SYSTEM MECHANIC (B-52, A-3A))


Objectives: To train airmen to perform as defensive fire control system mechanics or B-52 turret system mechanics.

Instruction: All Versions: Lectures and practical exercises in maintenance of electrical components and control equipment, including inertial guidance systems theory, operation, components, and troubleshooting; ground support equipment; DC and AC fundamentals; reactive circuits; vacuum tubes and solid-state devices; amplifiers and oscillators; electrical test equipment and system test consoles; power supplies; wave-shaping circuits; AM; FM; single sideband; transmission lines; servomechanisms; antennas; cavity resonators; and microwave principles.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics and additional credit in electricity or electronics on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 5 semester hours in electricity or electronics and additional credit in electronics on the basis of institutional evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 11 semester hours in electricity or electronics and additional credit in electricity or electronics on the basis of institutional evaluation (4/74); in the upper-division baccalaureate category, 9 semester hours in electricity or electronics and additional credit in electricity or electronics on the basis of institutional evaluation (4/74). Version 3: 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 in electricity or electronics, and credit in electrical laboratory on the basis of institutional evaluation (4/74). Version 4: 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 evaluation (12/68). Version 5: 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 evaluation (4/74).
Course Exhibition:

Bombing and navigation computers, radar data presentation set, and adjustment and troubleshooting of specific equipment and components.


Version 1: Includes power supplies, wave-shaping circuits, AM, FM, single-sideband, transmission lines and antennas, cavity resonators, oscillators, special circuits, servomechanisms, microwave principles, electrical test equipment, terrain computer, and radar fundamentals and equipment. Version 3: Includes oscillators, cavity resonators, oscillators, special circuits, servomechanisms, microwave principles, electrical test equipment, terrain computer, and radar fundamentals and equipment.

Credit Recommendation:

Version 1: In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (4/74). Version 3: In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (4/74).

Exhibit Dates:


Objectives:

To train airmen to operate, maintain, and inspect MGM-13A and TM-76A missile guidance systems and associated equipment.

Instructor: Lectures and practical exercises in fundamentals and the operation, maintenance, and inspection of MGM-13A and TM-76A missile guidance systems and associated equipment, including AC and DC fundamentals, vacuum tubes and transistors, amplifiers and oscillators, motion and servomechanisms, multivibrators and sweep circuits, microwave principles, guidance system checkout equipment, ground support equipment, and troubleshooting techniques for specific guidance system equipment.

Version 1: Includes power supplies, wave-shaping circuits, AM, FM, single-sideband, transmission lines and antennas, cavity resonators, and electrical test equipment. Version 2: Includes radar principles.

Credit Recommendation:

Version 1: In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (4/74). Version 2: In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (4/74). Version 3: In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics (12/68).

AF-1715-0485

1. BOMB NAVIGATION SYSTEM MECHANIC (B-52/C/D: ASB-15 SYSTEM)

2. BOMB NAVIGATION SYSTEMS MECHANIC (B-52/C/D: ASB-15 SYSTEM)

(Bomb Navigation System Mechanic (B-52/C/D: ASB-15 System))

Course Number:

Version 1: 3ABR32310R. Version 2: 3ABR32310R.

Location: 3415th Technical School, Lowry AFB, CO.

Length:


Exhibit Dates:


Objectives:

To train airmen to perform as weapon control system mechanics.

Instruction: Lectures and practical exercises in electronics fundamentals and weapons control systems, including DC and AC fundamentals (algebra-based), tubes, transistors, power supplies, amplifiers, oscillators, wave-shaping circuits, AM, FM, single sideband, transmission lines and antennas, servomechanisms, cavity resonators, microwave principles, electrical test equipment, binary systems, digital logic and circuits, and use and maintenance of specific equipment.

Credit Recommendation:

Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in computers, 11 in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74).

Version 2: In the lower-division baccalaureate/associate degree category, 11 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74).

Version 3: In the lower-division baccalaureate/associate degree category, 11 semester hours in electricity or electronics, and additional credit in electricity or electronics on the basis of institutional evaluation (4/74).

AF-1715-0484

1. TACTICAL MISSILE GUIDANCE MECHANIC (MGM-13A)

2. TACTICAL MISSILE GUIDANCE MECHANIC (MGM-76A)

3. TACTICAL MISSILE GUIDANCE MECHANIC (TM-76A).

Course Number:

Location: 3415th Technical School, Lowry AFB, CO.

Length:

magnetic, electron tubes and power supplies, amplifiers and oscillators, special circuits, microwave principles, radar system principle, operator and receiver system circuits, surveillance - indicating system, precision, indicator and remote control, and components and troubleshooting procedures of specific radar systems and subsystems. Version 3: Inclues resonant motors, synchros, diodes, transistors, operation, function, and basic mathematical relationships of regulators, multivibrators, pulsed, and blocking oscillators, AM, FM, and PM systems, binary and octal numbers, logic, functional diagrams and circuits, truth tables, Boolean algebra, counters and storage devices, digital techniques, transmission lines and antennas, wave-guides, cavity resonators, AM and PM systems, logic functions, diagrams and circuits, truth tables, Boolean algebra, counters and storage devices, digital techniques, transmission lines and antennas, transistors, wave-guides, cavity resonators, electronic test equipment, IF and SIF systems, coding, and decoding, control circuits, and communication equipment. Version 4: Includes resonances, motors, and servomechanisms, solid-state diodes, transistors, vacuum tubes, FM, single sideband, transmission lines and antennas, discrimination, wave-shaping circuits, cavity resonators, IF and SIF systems, coding and decoding, and control circuits. Version 5: Includes communications and beacon equipment. Version 6: Includes vacuum tubes, transistors, modulation, detection, synchros, approach indicators, control circuits, and beacon equipment. Version 7: Includes communications and beacon equipment.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics, 10 in electronics laboratory (4/74); in the upper-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics, 1 semester hours in credit. Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics, 2 in electronics laboratory, and additional credit in electronics laboratory on the basis of institutional evaluation (4/74).
AF-1715-0491
GROUND RADIO COMMUNICATIONS
EQUIPMENT REPAIRMAN (TITAN II)
Course Number: 3ABR30434-1.
Location: School of, Applied Aerospace Sciences, Keesler AFB, MS.
Length: 33 weeks (1020-1272 hours).
Exhibit Dates: 12/68-12/73.
Objectives: To train airmen to repair ground radio communications equipment.

AF-1715-0493
AIRBORNE EARLY WARNING RADAR SPECIALIST, TECHNICIAN
Course Number: 3ABR32832.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 27 weeks (810 hours).
Exhibit Dates: 2/72-12/73.
Objectives: To train airmen to operate and maintain aircraft warning and control equipment.

AF-1715-0492
AVIONIC COMMUNICATIONS SPECIALIST
Course Number: 3ABR32830.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 29 weeks (870 hours).
Exhibit Dates: 12/72-12/73.
Objectives: To train airmen to maintain and repair specialized avionic communications equipment.

AF-1715-0494
RADIO RELAY EQUIPMENT REPAIRMAN (EAME)
Course Number: ABR30430-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 31-32 weeks (840-870 hours).
Exhibit Dates: 6/65-12/68.
Objectives: To train airmen to repair radio relay equipment.
AF-1715-0497

1. AVIONICS OFFICER (FIGHTER)
2. AVIONICS OFFICER (FIGHTER)

(Armament Systems Officer (Fighting))

Course Number: Version 1: 6BR3231A; Version 2: OBR3231A-1; OBR3231A.
Location: 3415th Technical School, Lowry AFB, CO.


Objectives: To train officers in fire control and weapon control systems operation and management principles.

Instruction: AllVersions: Lectures and practical exercises in electronic principles, including mathematics through trigonometry and complex numbers, AC and DC fundamentals, Thévenin's and Norton's theorems, superposition theorem, Delta/Wye transformations, vacuum tubes, gas tubes, solid-state diodes, transistors, power supplies, amplifiers, oscillators, pulse and switching circuits, servomechanisms, amplitude modulation and detection, single-sideband principles, frequency modulation, modulation detection, receiver and transmitter principles, antennas and transmission lines, resonant cavities, microwave oscillators, lasers, integrated circuits, operations and limitations of the various systems, and principles of management. Version 2: Instruction includes power supplies and amplifiers, including audio, power, and linear amplifiers, amplifier principles, feedback, and phase inversion; wave-shaping circuits, including oscillators, transient circuits, clippers, clamps, multivibrators, and computer circuits.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in mathematics (12/68); in the upper-division baccalaureate category, 2 semester hours in electronics (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in electronics (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AF-1715-0498

GROUND COMMUNICATIONS EQUIPMENT REPAIRMAN (VHF-UHF)

Course Number: Version 1: AB30432B.

Objectives: To train enlisted personnel to install, operate, and maintain selected ground radio communications equipment.

Instruction: All Versions: Demonstrations and laboratory experiences in the operation and maintenance of ground radio communications equipment. Course includes basic electronics, power supplies, receivers, transmitters, UHF and VHF systems, and direction-finding equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory, 6 in electronics on the basis of institutional evaluation (6/74), in the upper-division baccalaureate category, 2 semester hours in electrical laboratory, 6 in electronics on the basis of institutional evaluation (6/74).

AF-1715-0500

ELECTRONICS SWITCHING SYSTEMS REPAIRMAN (490L OVERSEAS AUTOVON)

Course Number: Version 1: 3ABR6330.
Location: Version 1: School of Applied Aerospace Sciences, Lowry AFB, CO. All Versions: 3415th Technical School, Lowry AFB, CO.

Objectives: To train airmen to repair electronic switching systems including the AUTOVON communications system.

Instruction: Lectures and practical exercises in the repair of electronic switching systems and the AUTOVON communications system, including electronic principles through solid-state circuits, digital techniques, and switching techniques; applications of electronic switching to line, test, power and control subsystems; tracing system logic diagrams, wire diagrams and flow charts; card punching, analysis of circuit and testing, trouble shooting, analysis, and maintenance procedures.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.
COURSE EXHIBITS

AF-1715-0502

WEAPONS CONTROL SYSTEMS TECHNICIAN (MG-12 SYSTEMS)

Course Number: AA32271E-2
Location: 3415th Technical School, Chanute AFB, IL.
Length: 26 weeks (780 hours).
Exhibit Dates: 3/58-12/68.

Objectives: To train enlisted personnel to inspect, test, and troubleshoot weapon control systems and to supervise systems personnel.

Instruction: Lectures and practical exercises in the procedures for testing, adjusting, and troubleshooting assembly and disassembly of weapon systems. Course includes standard test equipment, intelligence gathering, antenna positioning, control computer, and fighter missile system.

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

AF-1715-0503

DEPOT OVERHAUL OF THE AN/ASH-4 LIGHT AND TIME RECORDING SET AND AN/UVM-1 TEST SET

Course Number: SS40250-25
Location: 3415th Technical School, Lowry AFB, CO.
Length: 4 weeks (160 hours).
Exhibit Dates: 3/58-12/68.

Objectives: To train enlisted personnel to maintain a light-and-time recorder.

Instruction: Lectures and practical exercises in the maintenance of a light-and-time recorder. Course includes identification and location of system components, functional operating principles, troubleshooting, repair, and replacement of components, minor repairs, and periodic inspection.

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

AF-1715-0504

FIELD AND ORGANIZATIONAL (F & O) MAINTENANCE OF THE AN/ASH-4 LIGHT AND TIME RECORDING SET

Course Number: SS40250-24
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/58-12/68.

Objectives: To train enlisted personnel to maintain and install light-and-time recorders.

Instruction: Lectures and practical exercises in the maintenance of a special light-and-time recorder. Course includes identification and location of system components, functional operating principles, troubleshooting, repair, replacement of components, minor repairs, and periodic inspection.

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

AF-1715-0505

ENGINE ANALYZER, SPERRY MAINTENANCE

Course Number: SS43250-50
Location: 3415th Technical School, Chanute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 4/58-12/68.

Objectives: To train enlisted personnel to maintain and operate engine analyzer systems.

Instruction: Lectures and practical exercises in the use and maintenance of various engine analyzer systems. Course includes location and installation of all engine analyzer components; review of electronic fundamentals; electronic circuits related to the engine analyzer circuits; and major analyzer troubleshooting.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0506

CONTROL SYSTEMS MECHANIC (SM-65, 68)

Course Number: ABR312020P
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 22 weeks (570 hours).
Exhibit Dates: 6/60-12/68.

Objectives: To train enlisted persons to perform as apprentice control system mechanic.

Instruction: Lectures and practical exercises on control systems; includes fundamentals of electricity, AC and DC fundamentals, circuits, and vacuum tubes; power supplies; basic guidance and control circuits, amplifiers, transistor principles and components, SM-65 operating principles, control system operating principles, flight control system component identification, location and operation, component maintenance and GSE SM-65.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (12/68); in the upper-division baccalaureate category, 3 semester hours in electronics and credit in electrical laboratory on the basis of institutional evaluation (6/74).

AF-1715-0507

AIRBORNE-ELECTRICAL SYSTEM TECHNICIAN (G-1186)

Course Number: SAZK32873-2
Location: Security Service School, Goodfellow AFB, TX.
Length: 4 weeks (142 hours).
Exhibit Dates: 11/71-12/73.

Objectives: To train enlisted personnel to maintain and repair the G-1186 long-range digital communications system.

Instruction: Lectures and practical exercises on the G-1186 long-range digital communications system, including AN/URC-53 long-range digital communications system; G-1186 long-range digital communications system, operation, development, and processing; message construction; operation of the digital communications airborne facility; technical characteristics of the G-1186; inspection, alignment, and check-out procedures; and trouble analysis of the function of the AN/URC-53 system.

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

AF-1715-0508

GUIDANCE SYSTEMS MECHANIC (SM-65, 68)

Course Number: ABR311300P
Location: 5175th Technical School, Keesler AFB, MS.
Length: 24 weeks (630 hours).
Exhibit Dates: 6/60-12/68.

Objectives: To train enlisted personnel to maintain and repair missile guidance systems.

Instruction: Lectures and practical exercises in the repair of guidance systems, including fundamentals of electricity, fundamentals of AC and DC circuits; vacuum tubes; transformers and systems; power supplies; basic guidance and control circuits; amplifiers; transistor principles and logic circuitry; missile inspection and maintenance system; radio guidance circuits and components; microwave transmission; and modulation and detectors.

Credit Recommendation: 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 evaluation (6/74).

AF-1715-0509

AIRBORNE ELECTRONIC NAVIGATION EQUIPMENT TECHNICIAN

Course Number: SAEK32873-2
Location: Security Service School, Goodfellow AFB, TX.
Length: 4 weeks (142 hours).
Exhibit Dates: 11/71-12/73.

Objectives: To train enlisted personnel to maintain and operate various airborne electronic navigation equipment.

Instruction: Lectures and practical exercises in the repair of guidance systems, including fundamentals of electricity, fundamentals of AC and DC circuits; vacuum tubes; transformers and systems; power supplies; basic guidance and control circuits; amplifiers; transistor principles and logic circuitry; missile inspection and maintenance system; radio guidance circuits and components; microwave transmission; and modulation and detectors.

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

AF-1715-0510

1. AIRCRAFT ELECTRONIC NAVIGATION EQUIPMENT TECHNICIAN

2. AIRCRAFT ELECTRONIC NAVIGATION EQUIPMENT MAINTENANCE TECHNICIAN

Location: 3380th Technical School, Keesler AFB, MS.
Length: Version 1: 43 weeks (1290 hours), Version 2: 19-41 weeks (570-1230 hours).

Objectives: To train officer airmen to maintain, operate, and inspect aircraft electronic navigation equipment.

Instruction: Lectures and practical exercises in the repair and installation of aircraft electronic navigation equipment, including principles of DC and AC circuits; RF and RC circuits; basic electronic principles; power supplies; oscillators; waveform shaping; use of multimeter and oscilloscope; functional block diagram analysis of transmitters, RF receiver, airborne navigation receiver, indicator systems; basic measuring devices and test equipment; principles of airborne navigational instruments, radar, Doppler, and Loran systems, and applied technical
AF-1715-0513
GROUND SHORAN EQUIPMENT REPAIRMAN.
Course Number: AB20333B.
Location: 3580th Technical School, Keesler AFB, MS.
Length: 19 weeks (570 hours).
Exhibit Dates: 5/55-12/68.
Objectives: To train enlisted personnel to repair ground SHORAN equipment, including an introduction to the circuit and vacuum tube electronic principles.
Instruction: Lectures and practical exercises in the repair and operation of ground SHORAN equipment. Topics include PH/PS circuits; parallel and series combination of bridge circuits; magnetism; measuring instruments; transformers; RLC circuits; resonances; vacuum tube electronic circuits, such as amplifiers, trigger circuits, rectifiers and oscillators, and application of circuit principles to operation and maintenance of a specific ground based radar set.
Credit Recommendation: 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 shop management, and credit in electrical laboratory on the basis of institutional evaluation (6/74).

AF-1715-0514
SPECIAL TRAINING, AN/FPS-24 (FIELD AND ORGANIZATIONAL),
Course Number: AXS30372-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 10 weeks (400 hours).
Exhibit Dates: 12/60-12/68.
Objectives: To train airmen to operate, inspect, and maintain a special radar set.
Instruction: Lectures and laboratories in the operation and maintenance of a special radar set. Course includes block diagram of overall system, power distribution, power amplifiers, RF system, antenna controls, receiver system, countermeasures equipment, control console, pulse compression system, and measurement.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0512
SPECIAL TRAINING, AN/FPS-6 (ARMY),
Course Number: ATS30372-5.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 5-8 weeks (150-240 hours).
Exhibit Dates: 9/59-12/68.
Objectives: To train enlisted personnel to operate, inspect, maintain, and repair the AN/FPS-6 radar set.
Instruction: Lectures and practical exercises in the operation, tuning, inspection, maintenance and repair of the AN/FPS radar set, including use of test equipment, block-diagram analysis of AN/FPS and similar radar sets, power distribution and trigger circuits, transmitting and RF system; receiving and antenna positioning system; indicators; GE familiarization and alignment, adjustment, and troubleshooting procedures.
Credit Recommendation: No credit because of the limited specialized nature of the course (6/74).
COURSE EXHIBITS

Objectives: To train enlisted personnel in the maintenance of current weather equipment and in electronic fundamentals.

Instruction: Lectures and practical exercises in the maintenance of current weather equipment and in electronic fundamentals. Topics include vacuum tube amplifiers, magnetic amplifiers, transistors, power supplies, filter circuits, specific radar sets, block diagram analysis, and troubleshooting and maintenance procedures. The student also learns about radar sets, receivers, waveguides, testing circuits, transmitters, and other related equipment.

Credit Recommendation: See explanatory notes at the beginning of the Air Force section.

AF-1715-0519
AN/FPS-17, OPERATION AND MONITORING
Course Number: AZR29250.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 5 weeks (200 hours).
Objectives: To train enlisted personnel to operate, align, inspect, maintain, and repair airborne electronic navigation (SHORAN) and related test equipment.

Instruction: Lectures and practical exercises in the operation, tuning, alignment, installation, maintenance and repair of electronic navigation (SHORAN) and related equipment. The student also learns about test equipment of DC and AC circuits and instruments, electron tubes and power supplies, amplifiers and oscillators (vacuum tube), receiver principles, sweep generators, multibalimodors, radar microwave propagation, analysis of SHORAN navigational equipment, analysis of bombing computer, and equipment installation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in instrumentation laboratory on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, credit in instrumentation laboratory on the basis of institutional evaluation (6/74).

AF-1715-0520
MECHANICAL INSTRUMENT TRAINER
Specialist
Course Number: AB34130.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 17 weeks (480 hours).
Objectives: To train enlisted personnel to perform as apprentice instrument trainer.

Instruction: Lectures and practical exercises in the functions of mechanical instrument trainer specialists, including electrical principles, circuit analysis, electric motors and transformers, control and safety devices, circuit components, electron tubes, synchronous devices, oscillators, aerial navigation, aerodynamics, instruments, properties of solids and fluids, and the use and care of hand tools and aircraft materials.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in shop practice on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (6/74).

AF-1715-0521
AIRCROBE EлектRONIC NAVIGATION / EQUIPMENT REPAIRMAN
(SHORAN)
(AIRCRAFT ELECTRONIC NAVIGATION / EQUIPMENT REPAIRMAN)
(AIRCRAFT SHORAN EQUIPMENT REPAIRMAN)
Course Number: AB30131B.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 27-30 weeks (810 hours).
Objectives: To train airmen to operate, align, inspect, maintain, and repair airborne electronic navigation (SHORAN) and related test equipment.

Instruction: Lectures and practical exercises in the operation, tuning, alignment, installation, maintenance and repair of electronic navigation (SHORAN) and related equipment. The student also learns about test equipment of DC and AC circuits and instruments, electron tubes and power supplies, amplifiers and oscillators (vacuum tube), receiver principles, sweep generators, multibalimodors, radar microwave propagation, analysis of SHORAN navigational equipment, analysis of bombing computer, and equipment installation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in instrumentation laboratory on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, credit in instrumentation laboratory on the basis of institutional evaluation (6/74).
Credit Recommendation: No credit due to the military nature of the course (6/74).

AF-1715-0528

1. AIRCRAFT ENVIRONMENTAL SYSTEMS REPAIR TECHNICIAN

2. AIRCRAFT ENVIRONMENTAL SYSTEMS REPAIR TECHNICIAN (MECHANICAL ACCESSORIES AND EQUIPMENT)

AF-1715-0529

1. ELECTRONIC WAREHOUSE OFFICER

2. ELECTRONIC WAREHOUSE OFFICER

3. ELECTRONIC WAREHOUSE OFFICER (NAVIGATION, ECM)

AF-1715-0530

1. GROUND COMMUNICATIONS EQUIPMENT REPAIRMAN (HEAVY TRANSMITTERS)

AF-1715-0531

1. INSTRUMENT TRAINER SPECIALIST
AF-1715-0532

Electronic Warfare Systems Specialist

AF-1715-0532

Electronic Warfare Systems Specialist


Objective: To train airmen to perform electronics tasks. In this course, airmen will learn the practical aspects of the theory of operation, function, and basic mathematical relationships of radio equipment, including DC, AC, and digital techniques; transmission lines and antennas; and circuitry of electronics equipment.


Objectives: To train airmen to operate, install, inspect, adjust, and align, maintain, repair, and troubleshoot electronic equipment.

Instruction: All Lectures, and practical exercises in electronics fundamentals and the operation, installation, inspection, adjustment, and alignment, maintenance, repair and troubleshooting of electronic equipment.


Objectives: To train airmen to operate, install, inspect, adjust, and align, maintain, repair, and troubleshoot electronic equipment.

Instruction: All Lectures, and practical exercises in electronics fundamentals and the operation, installation, inspection, adjustment, and alignment, maintenance, repair and troubleshooting of electronic equipment.


Objectives: To train airmen to operate, install, inspect, adjust, and align, maintain, repair, and troubleshoot electronic equipment.

Instruction: All Lectures, and practical exercises in electronics fundamentals and the operation, installation, inspection, adjustment, and alignment, maintenance, repair and troubleshooting of electronic equipment.

AF-1715-0535

1. **Weapons Control Systems**
   - **Mechanic (F-4C/D: AP0-109/4/3)**

2. **Weapons Control Systems**
   - **Mechanic (F-4C/D: AP0-109/4/3)**

3. **Weapons Control Systems**
   - **Mechanic (F4, AMCS)**

**Objective:** To train airmen as weapons control system mechanics.

**Instructor:** All Versions:
- Lectures and practical exercises in weapon control systems, radar, and communications fundamentals (algebra-based), tubes, transistors, power supplies, amplifiers, oscillators, wave-shaping circuits, AM, FM, single-sideband, transmission lines and antennas, servomechanisms, cavity resonators, microwave principles, electrical test equipment; weapon control systems fundamentals — weapon transmitting, receiving, antenna, and display systems; indicator control unit; radar and missile firing circuits; lead-computer, optical sight systems; weapon release computing set; troubleshooting, repair, alignment, and replacement procedures; and system tie-in. **Version 3:** Includes bomb computer and transistor review.

**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 11 semester hours in electronics and computers, 12 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 9 semester hours in electronics and computers, and additional credit in electronics on the basis of institutional evaluation (6/74). **Version 2:** In the lower-division baccalaureate/associate degree category, 11 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 9 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74). **Version 3:** In the lower-division baccalaureate/associate degree category, 12 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 12 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74). **Version 4:** In the lower-division baccalaureate/associate degree category, 8 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 8 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74).**

AF-1715-0536

1. **Avionics Officer (Bomber)**
2. **Avionics Officer (Bomber)**

**Course Number:** Version 1: 3ABR32313B. **Version 2:** OBR32313B. **Version 3:** OBR32313B.

**Location:** Chanute Technical School, Chanute AFB, IL.

**Length:** Version 1: 27 weeks (810 hours). **Version 2:** 26-35 weeks (840-905 hours). **Version 3:** 7/54-12/69.

**Objectives:** To train officers to be avionics officers.

**Instruction:** All Versions:
- Lectures and practical exercises in electronics, including mathematics (algebra, geometry, and complex numbers), AC and DC fundamentals, Thevenin’s and Norton’s theorems, superposition theorem, Delta-Wye transformations, vacuum tubes, gas tubes, solid-state diodes, transistors, power supplies, amplifiers, oscillators, pulse and switching circuits, servomechanisms, amplitude modulation, receiver and transmitter principles, antennas and transmission lines, resonant cavities, microwave oscillators, lasers, and integrated circuits. **Version 1:** Includes computer and transistor replacement, digital logic and mathematics.

**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 16 semester hours in electronics, and 3 as an elective in communications systems (6/74); in the upper-division baccalaureate category, 12 semester hours in electronics, and 3 as an elective in communications systems (6/74). **Version 2:** In the lower-division baccalaureate/associate degree category, 19 semester hours in electronics, and 3 as an elective in communications systems (6/74). **Version 3:** In the upper-division baccalaureate category, 12 semester hours in electronics (6/74), 2 in shop management (12/68), and 3 as an elective in electronic communications (6/74). **Version 4:** In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 5 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (6/74). **Version 5:** In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (6/74). **Version 6:** In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (6/74).

AF-1715-0537

**Avionics Aerospace Ground Equipment Specialist**

**Course Number:** 3ABR32630.

**Location:** School of Applied Aerospace Sciences, Lowry AFB, CO; 3415th Technical School, Lowry AFB, CO.

**Length:** Version 1: 20 weeks (600 hours). **Version 2:** 20-23 weeks (600-690 hours).

**Exhibit Dates:** Version 1: 3/73-12/73. **Version 2:** 11/69-2/73.

**Objectives:** To train airmen as avionics aerospace ground equipment mechanics.

**Instructor:** All Versions:
- Lectures and practical exercises in weapon control systems, maintenance electronics, and electronic fundamentals, including DC and AC fundamentals, tubsl, power supplies, transistors, amplifiers, oscillators, wave-shaping circuits, electrical test equipment, AM and FM, computer head-up display, and radar and mission maintenance. **Version 1:** Includes semiconductors, balanced motion; analog and digital computer principles; multivibrators; digital circuits; principles of radar, infrared, and lasers; and system analysis procedures. **Version 2:** Includes single sideband, transmission lines and antennas, servomechanisms, cavity resonators, microwave principles, and digital logic and mathematics.

**Credit Recommendation:** Version 1: In the lower-division baccalaureate/associate degree category, 5 semester hours in electricity or electronics, 1 in electrical or electronic laboratory (6/74); in the upper-division baccalaureate category, credit in electrical or electronic laboratory (6/74); in the lower-division baccalaureate category, 4 semester hours in electricity or electronics, 1 in electrical or electronic laboratory (6/74); in the upper-division baccalaureate category, credit in electrical or electronic laboratory (6/74); in the lower-division baccalaureate category, 3 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 3 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74). **Version 2:** In the lower-division baccalaureate/associate degree category, 8 semester hours in electronics, and additional credit in electronics on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 5 semester hours in electricity or electronics, and additional credit in electronics on the basis of institutional evaluation (6/74).

AF-1715-0539

**Air Force Flight Control Systems**

**Course Number:** ABR32336B.

**Location:** School of Applied Aerospace Sciences, Lowry AFB, CO; 3415th Technical School, Chanute AFB, IL.

**Length:** 20-23 weeks (558-594 hours).
AF-1715-0442

1. AUTOMATIC FLIGHT CONTROL SYSTEMS SPECIALIST (B-58)

AF-1715-0454

1. AUTOMATIC FLIGHT CONTROL SYSTEMS SPECIALIST (FLIGHT CONTROL/AUTOPILOT SYSTEMS REPAIRMAN)

AF-1715-0542

1. AUTOMATIC FLIGHT CONTROL SYSTEMS SPECIALIST (B-52)

AF-1715-0543

1. AUTOMATIC FLIGHT CONTROL SYSTEMS SPECIALIST (FIGHTERS AND B-58)
AF-1715-0544

1. NAVIGATION AND BOMBING TRAINER
   SPECIALIST (AN/APO-T10)
   Course Number: Version 1: 3AB34330A
   Location: 3435th Technical School, Chanute AFB, IL.
   Length: Version 1: 18-20 hours
   Version 2: 16-18 hours
   Version 3: 16-18 hours

2. NAVIGATION AND BOMBING TRAINER
   SPECIALIST (AN/APO-T10)
   Course Number: Version 1: 3AB34330A
   Location: 3435th Technical School, Chanute AFB, IL.
   Length: Version 1: 18-20 hours
   Version 2: 16-18 hours
   Version 3: 16-18 hours

3. NAVIGATION AND BOMBING TRAINER
   SPECIALIST (NAVIGATION AND BOMBING SCHOOL, TAC)
   Course Number: Version 1: 3AB34330A
   Location: 3415th Technical School, Lowry AFB, CO.
   Length: Version 1: 24 weeks (720 hours)
   Version 2: 26 weeks (780 hours)
   Version 3: 30 weeks (900 hours)
   Version 4: 30 weeks (900 hours)

Objectives: To train enlisted personnel to be navigation and bombing trainer specialists.

Instruction: All Versions: Lectures and practical exercises in navigation techniques, including AC and DC circuits, motors and synchronous machines, electron tubes, power supplies, relays, multivibrators, blocking oscillators, transmission lines, antennas, transmitters, waveguides, cavity resonators, and UHF and microwave oscillators and amplifiers; introduction to magnetism, resonance; and use of the oscilloscope in circuit measurements. Version 1: Instruction includes digital techniques, binary and octal numbers, logic functions, truth tables, Boolean algebra, logic diagrams, circuits, counters, and storage devices, T-10 fundamentals, test equipment, and servo systems; positioning and auxiliary circuits, light, optic modification, data production, and video simulation. Version 1 includes solid-state devices, with emphasis on tube-type audio, push-pull, and video amplifiers, servo and magnetic amplifiers, and all types of oscillators and solid-state devices; T-10 fundamentals; microwave operation; sweep and logic circuits; circuit analysis and amplification, and modulation and detection. Version 3: Instruction includes solid-state devices, with emphasis on tube-type audio, push-pull, and video amplifiers, servo and magnetic amplifiers, and all types of oscillators and solid-state devices; T-10 fundamentals; microwave operation; sweep and logic circuits; circuit analysis and amplification, and modulation and detection. Version 3: Instruction includes solid-state devices, with emphasis on tube-type audio, push-pull, and video amplifiers, servo and magnetic amplifiers, and all types of oscillators and solid-state devices; T-10 fundamentals; microwave operation; sweep and logic circuits; circuit analysis and amplification, and modulation and detection.
microwave principles, electrical test equipment, infrared subsystem functions, and armament control. Version 2: Includes transistors, amplifiers, wave-shaping circuits, AM, FM, single sideband, transmission lines and antennas, servomechanisms, cavity resonators, microwave principles, electrical test equipment, infrared subsystem and armament control. Version 3: Includes reactive and special circuits, transistors, amplifiers, motors and servomechanisms, multivibrators and sweep and logic circuits, power distribution, microwave principles, missile auxiliary functions tie-in and hand exercises. Version 4: Includes reactive and special circuits, transistors, amplifiers, motors and servomechanisms, multivibrators and sweep and logic circuits, power distribution, microwave principles, missile auxiliary functions tie-in and hand exercises. Version 5: Includes reactive and special circuits, transistors, amplifiers, motors and servomechanisms, multivibrators and sweep and logic circuits, power distribution, microwave principles, missile auxiliary functions tie-in and hand exercises. Version 6: Includes reactive and special circuits, transistors, amplifiers, motors and servomechanisms, multivibrators and sweep and logic circuits, power distribution, microwave principles, missile auxiliary functions tie-in and hand exercises. Version 7: Includes reactive and special circuits, transistors, amplifiers, motors and servomechanisms, multivibrators and sweep and logic circuits, power distribution, microwave principles, missile auxiliary functions tie-in and hand exercises.

Instruction: Lectures and practical exercises in the calibration and maintenance of microwave measuring equipment at the advanced level. Course includes discussion of transmission line principles and parameters, distributed elements, Smith chart analysis, and detection techniques. Measurements are performed to determine VSWR, frequency, and impedance, together with an assessment of accuracy, loss characteristics, and system representations. Block-diagram analysis is also included, together with detailed instructions and equipment exercises for evaluating microwave circuit performance. All standard equipment (e.g., detectors, slotted lines, reflectometers, couplers, and other accessories) is used in this course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in microwave techniques laboratory (6/74); in the upper-division baccalaureate category, 3 semester hours in microwave techniques laboratory (6/74).

AF-1715-0551

COMMUNICATION/ELECTRONICS SYSTEMS STAFF OFFICER

Course Number: 30AR3001.
Location: 330th Technical School, Keesler AFB, MS.
Length: 22 weeks (660 hours).
Exhibit Dates: 1/70-12/73.
Objectives: To train commissioned officers to formulate communications-electronics policies and procedures, to coordinate policy plans and operations, and to monitor and direct programs.

Instruction: Lectures and demonstrations in communications-electronics policies and procedures. Course includes wire communications, ground radar, air traffic control systems, communications networks, and satellite systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in digital computer fundamentals, and 3 in communications circuits on the basis of institutional evaluation (6/74); in the upper-division baccalaureate category, 1 semester hour in digital computer fundamentals, and 3 in communications circuits on the basis of institutional evaluation (6/74).

AF-1715-0559

ADVANCED MICROWAVE MEASUREMENTS AND CALIBRATION

Course Number: 3AZR32470-1.
Location: 341th Technical School, Lowry AFB, CO.
Length: 5 hours (150 hours).
Exhibit Dates: 1/70-12/73.
Objectives: To train enlisted personnel to maintain and calibrate microwave measuring equipment.

Instruction: Lectures and practical exercises in the calibration and maintenance of microwave measuring equipment at the advanced level. Course includes discussion of transmission line principles and parameters, distributed elements, Smith chart analysis, and detection techniques. Measurements are performed to determine VSWR, frequency, and impedance, together with an assessment of accuracy, loss characteristics, and system representations. Block-diagram analysis is also included, together with detailed instructions and equipment exercises for evaluating microwave circuit performance. All standard equipment (e.g., detectors, slotted lines, reflectometers, couplers, and other accessories) is used in this course.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in microwave techniques laboratory (6/74); in the upper-division baccalaureate category, 3 semester hours in microwave techniques laboratory (6/74).
AF-1715-0554
**ELECTRONIC INTERCEPT OPERATIONS SPECIALIST (INTERIM)**
Course Number: ABR29230-2
Location: 3380th Technical School, Keister AFB, MS.
Length: 5 weeks (660 hours)
Exhibit Dates: 2/62-12/68.

**Objectives:** To train enlisted personnel in the special techniques and principles, including communications principles, electronic warfare equipment, and system function.

**Instruction:** Lectures and laboratories in electronic intercept operations, including countermeasures receivers, pulse analyzers, traveling-wave tubes, antennas, photographic and oscillographic recorders, magnetic recording devices, record and log procedures, and the operation of various systems components.

**Credit Recommendation:** 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, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (6/74).

AF-1715-0555
**OFFICERS' GROUND ELECTRONICS ORIENTATION**
Course Number: XX3044
Location: 3380th Technical School, Keister AFB, MS.
Length: 4 weeks (120 hours)
Exhibit Dates: 10/55-12/68.

**Objectives:** To familiarize officers with the operation, tuning, adjustment, and organizational maintenance and repair of the radio relay equipment.

**Instruction:** Lectures and practical exercises in the operation of ground communications equipment. Course includes fundamentals of electricity; multiplex and single-sideband terminal equipment; and ground communications terminal equipment systems.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in radio relay equipment (12/68); in the upper-division baccalaureate category, credit in radio/repair on the basis of institutional evaluation (12/68).

AF-1715-0553
**ELECTRONIC WARFARE UPGRADE TRAINING (B-58)**
Course Number: AB30431C
Location: 3310th Technical School, Scott AFB, IL.
Length: 17-18 weeks (510 hours)
Exhibit Dates: 7/55-12/68.

**Objectives:** To train enlisted personnel in the operation, tuning, adjustment, and organizational maintenance and repair of special aircraft equipment.

**Instruction:** Lectures and practical exercises in the operation of special aircraft equipment. Course includes fundamentals of electricity; multiplex and single-sideband terminal equipment; and ground communications terminal equipment systems.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in radio repair (6/74); in the upper-division baccalaureate category, credit in radio/repair on the basis of institutional evaluation (6/74).
COURSE EXHIBITS

Imagery reports and using plotting equipment.

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

AF-1715-0560

AIR ELECTRONICS MAINTENANCE FOR ARMAMENT SYSTEMS OFFICER

Course Number: OZR3054-A
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6 weeks (180 hours).
Exhibit Dates: 1/61-12/68.
Objectives: To train commissioned officers to perform duties relating to the maintenance of aircraft electronic countermeasures systems, including passive ECM systems; and classified fire control system analysis, installation, operational and performance checks, and alignment and troubleshooting of receivers, transmitters, and other ECM systems.
Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

AF-1715-0563

BOMB NAVIGATION SYSTEM TECHNICIAN (K, MA-6, MA-6A SERIES STABILIZATION AND OPTICS)

Course Number: AA31207B
Location: 3415th Technical School, Lowry AFB, CO.
Length: 22 weeks (660 hours).
Exhibit Dates: 3/57-12/68.
Objectives: To train enlisted personnel to operate and maintain specific bombing-navigation stabilization and optic units, to analyze malfunctions, and to disassemble and repair components.
Instruction: Lectures and practical exercises in the technical operation of a bomb stabilization system. Topics include AC and DC fundamentals; principles of vacuum tubes, amplifiers, synchros, and gyroscopes; stabilization systems familiarization; and specialized optical system techniques.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AF-1715-0564

BASE OBSERVER ELECTRONIC COUNTERMEASURES

Course Number: ZZ302101
Location: 3380th Technical School, Keesler AFB, MS.
Length: 30 weeks (927 hours).
Exhibit Dates: 2/58-12/68.
Objectives: To train officer personnel in the theory, operation, and maintenance of the AN/GKA-5(V) fire control group, and the AN/FRT-49 amplifier.
Instruction: Lectures and practical exercises in the theory, operation, and maintenance of the AN/GKA-5(V) fire control group and AN/FRT-49 amplifier, including electronics and binary mathematics, transistor theory, circuit and logic analysis of all components, klatron theory, tuning and adjustment, preventive maintenance, system maintenance and operation and application of associated test equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in digital engineering, logic design, or electronics laboratory (6/74); in the upper-division baccalaureate, 2 semester hours in digital engineering, logic design, or electronics laboratory (6/74).

Objectives: To train officers to perform as ECM armament systems officers.
Instruction: Lectures and practical exercises in supervisory duties relating to the maintenance of aircraft electronic countermeasures systems, including passive ECM systems; and classified fire control system analysis, installation, operational and performance checks, and alignment and troubleshooting of receivers, transmitters, and other ECM systems.
Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

AF-1715-0566

WEAPONS CONTROL SYSTEMS TECHNICIAN (E-4, E-5, E-6 SERIES SYSTEMS)

Course Number: AAB33271D, AAB32271D
Location: 3415th Technical School, Lowry AFB, CO.
Length: 14-18 weeks (420-540 hours).
Exhibit Dates: 4/54-12/68.
Objectives: To train airmen to inspect, troubleshoot, and repair specific fire and weapons control systems associated standard and special test equipment.
Instruction: Lectures and practical exercises in the inspection, troubleshooting, and repair of specific fire and weapons control systems and associated standard and special test equipment, including power supplies; analysis of various components and systems of specific weapons control and test equipment; circuit analysis of range-tracking, transmitter, receiver, video presentation, antenna-positioning, and attack-display sections; computer analysis, including flight geometry; and radar and computer tie-in.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0567

1. OFFENSIVE FIRE CONTROL SYSTEMS MECHANIC (MA-10, ASG-14 SYSTEMS)
2. FIRE CONTROL SYSTEMS MECHANIC (MA-10, ASG-14 SYSTEMS)

Course Number: ABR32230M
Location: 3415th Technical School, Lowry AFB, CO.
Objectives: To train basic airmen to perform as apprentice fire control system mechanics.
Instruction: All Versions: Lectures and practical exercises in fire control systems, including DC and AC circuits, reactive circuits, principles of vacuum tubes and transistors, amplifiers and oscillators, special circuits, microwave principles, mult...
AF-1715-0568

1. NUCLEAR WEAPONS SPECIALIST (RE-ENTRY VEHICLE) (LGM-30C, MK 11)

- Course Number: ABR33100B-4.
- Location: 3415th Technical School, Lowry AFB, CO.

Objectives: To train airmen as weapons system technicians.

Instruction: Lectures and practical exercises in the assembly and testing of re-entry vehicles associated with nuclear weapons, including AC and DC principles, semiconductor devices, nuclear weapons theory, weapons system orientation, test and handling equipment, circuit analysis, maintenance, and aerospace ground equipment. Includes Boolean notation, digital techniques, and symbolic logic.

Credit Recommendation: Version 1: No credit because of the military nature of the course (6/74).

AF-1715-0570

WEAPONS CONTROL SYSTEMS TECHNICIAN (E-9 SYSTEM)

- Course Number: AAR32271E-1.
- Location: 3415th Technical School, Lowry AFB, CO.
- Length: 21-26 weeks (630-780 hours).
- Exhibit Dates: 11/59-12/68.

Objectives: To train airmen as weapons control systems technicians.

Instruction: Lectures and practical exercises in the duties of weapons control systems technicians, including standard test equipment usage, signal data recorder, transmitting, target detection and radar ranging, antenna positioning, computer control, snoop, missile target, flight sensing, missile power and parameter setting, armament control, and optical steering and tracking systems, and maintenance and troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours as an elective in electronics (6/74).

AF-1715-0571

AIR SURVEILLANCE (SAGE)

- Course Number: AZR273708B-6.
- Location: 3380th Technical School, Keesler AFB, MS.
- Length: 6-8 weeks (180-240 hours).
- Exhibit Dates: 7/60-12/68.

Objectives: Train airmen as air surveillance technicians (SAGE).

Instruction: Lectures and practical exercises in the assembly and testing of SAGE weapons, including AC and DC principles, semiconductor devices, nuclear weapons theory, weapons system orientation, test and handling equipment, circuit analysis, maintenance, and aerospace ground equipment. Includes Boolean notation, digital techniques, and symbolic logic.

Credit Recommendation: No credit because of the military nature of the course (6/74).
AF-1715-0576
STATUS AUTHENTICATION SUBSYSTEM
MAINTENANCE, WS-133B

Course Number: 3AAR31672H; AAR31672H.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 2 weeks (450 hours).
Exhibit Dates: 11/8-12/68.
Objectives: To train enlisted personnel to perform duties of a baccalaureate degree category.
Credit Recommendation: No credit because of the limited specialized nature of the course (6/74).

AF-1715-0577
GROUND RADIO SYSTEMS SUPERVISOR/ TECHNICIAN

Course Number: 3AAR3204; AAR3204.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 2 weeks (1380 hours).
Exhibit Dates: 7/65-12/73.
Objectives: To train enlisted personnel as ground radio systems supervisor/technicians.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0578
AN/ALQ-21/72 FIELD/ORGANIZATIONAL/F O MAINTENANCE

Course Number: 2ASR30153-3.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 4/68-12/73.
Objectives: To train enlisted personnel to perform duties as electronic warfare equipment repairmen.
Instruction: Lectures and practical exercises in the repair of electronic warfare equipment.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0579
ELECTRICAL POWER PRODUCTION, TECHNICIAN

Course Number: 3AAR54370; AAR54370.
Location: 3750th Technical School, Sheppard AFB, TX.
Objectives: To train airmen to maintain diesel-driven generator sets, associated support equipment and control switchgear, or to maintain and operate electrical power generating equipment.
Instruction: All Versions: Lectures and practical exercises in the maintenance of diesel-driven generator sets, associated support equipment and control switchgear, or the maintenance and operation of electrical power generating equipment, including maintenance management, electrical switchgear arrangements and related wiring diagrams, engine construction and operating procedures, and diesel engine systems analyses. Version 1: Includes additional hours in maintenance management.

AF-1715-0580
E-SERIES SYSTEM MECHANIC

Course Number: AB32230A.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 26 weeks (780 hours).
Exhibit Dates: 8/54-12/68.
Objectives: To train enlisted personnel to check, calibrate, harmonize and maintain a specific rocket and radar set.
Instruction: Lectures and practical exercises in maintaining a specific rocket and radar set. Topics include electrical fundamentals, vacuum electronics, electronic circuits, use of oscilloscopes and specific electronic equipment.
Course contains no material on solid-state devices.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AF-1715-0581
TRACKING/IDENTIFICATION (SAGE)

Course Number: AAR2739013.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6 weeks (180 hours).
Exhibit Dates: 4/61-12/68.
Objectives: To train enlisted personnel to perform duties as tracking supervisors of technicians.
Instruction: Lectures and practical exercises in the duties of a tracking supervisor/technician. The content of this course is very specific and is oriented entirely towards the operation and characteristics of the SAGE system.
Credit Recommendation: No credit because of the limited specialized nature of the course (6/74).

AF-1715-0582
SAGE SYSTEM MAINTENANCE-MANAGEMENT, OFFICER (SAGE MAINTENANCE CONTROL OFFICER)

Course Number: OZR3016-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 11-15 weeks (330-450 hours).
Exhibit Dates: 3/61-12/68.
Objectives: To train officers to perform as SAGE maintenance management officers.
Instruction: Lectures and practical exercises in SAGE maintenance management, including digital computer operation and principles, basic programming, drum and display systems, SAGE inputs and outputs, maintenance procedures, quality control, and maintenance analysis and control.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours as an elective in digital computer principles (6/74).

AF-1715-0583
CONTROL SYSTEMS ANALYST (GAM-77)

Course Number: ABR31431-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 23 weeks (600 hours).
Exhibit Dates: 11/59-12/68.
Objectives: To train enlisted personnel to analyze and maintain a control system.
Instruction: Lectures and practical exercises in the analysis and maintenance of a control system. Topics include basic applied mathematics, DC and AC circuit fundamentals, and electronic fundamentals, including coverage of transistors, electronic circuits, and materials applicable to specific electronic equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AF-1715-0584
AN/APN-101/131 DOPPLER MAINTENANCE

Course Number: AZR30151-3.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 5 weeks (450 hours).
Exhibit Dates: 12/61-12/68.
Objectives: To train enlisted personnel to operate, inspect, maintain, and repair a Doppler radar navigation system.
Instruction: Lectures and practical exercises in the operation and maintenance of Doppler radar navigation systems. Topics include Doppler principles and applications, principles of air navigation, semiconductor theory and application, principles of electronic counting, specialized digital computer circuitry, functions, operational characteristics, circuit theory, calibration, tuning, alignment, preflight operational checks, troubleshooting, and the operation and organizational maintenance of specialized test equipment and flight-line test sets.
Credit Recommendation: In the lower-division baccalaureate/associate degree
AF-1715-0585

GROUND COMMUNICATIONS EQUIPMENT REPAIRMAN, FTPS (HEAVY)

Course Number: AZR30453-1
Location: 3380th Technical School
Keesler AFB, MS.
Length: 6 weeks (150 hours).
Exhibit Dates: 10/62-12/68.
Objectives: To train enlisted personnel to perform as control operators at radar sites and direction centers.

Instruction: Lectures and practical exercises in the maintenance and repair of equipment, including system identification, functions of electronic components, troubleshooting of system components, and operational checks and troubleshooting of electronic systems in specific helicopters.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0586

ELECTRICAL REPAIR TECHNICIAN (HH-53)

Course Number: 3AZR42730-0
Location: 3750th Technical School
Sheppard AFB, TX.
Length: 16 weeks (480 hours).
Exhibit Dates: 4/72-12/73.
Objectives: To train enlisted personnel to prepare as electrical repair technicians.

Instruction: Lectures and practical exercises in the electrical systems of specific helicopters, including the identification, function, troubleshooting of system components, and operational checks and troubleshooting of electronic systems in specific helicopters.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0587

ELECTRONIC WARFARE COUNTERMEASURES SPECIALIST (ELECTRONIC COUNTER-COUNTERMEASURE SYSTEM OPERATOR)

(ECCM OPERATOR)

Course Number: ALR27332; AZR27370A-14
Location: 3380th Technical School
Keesler AFB, MS.
Length: 16 weeks (480 hours).
Exhibit Dates: 4/63-12/68.
Objectives: To train enlisted personnel to perform as system-level personnel at radar sites and direction centers.

Instruction: Lectures and practical exercises in the maintenance and repair of electronic systems and components, troubleshooting, and designing back-up assistance systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AF-1715-0588

1. ELECTRONICS SYSTEMS OFFICER
   (GROUND ELECTRONICS OFFICER)

2. ELECTRONICS OFFICER
   (GROUND ELECTRONICS OFFICER)

3. ELECTRONICS OFFICER
   (GROUND ELECTRONICS OFFICER)

AF-1715-0590

NUCLEAR WEAPONS SPECIALIST (RE-ENTRY VEHICLE SM-80-MK 5)

Course Number: AZR33310B-3
Location: 3415th Technical School
Lowry AFB, CO.
Length: 6 weeks (180 hours).
Exhibit Dates: 4/63-12/68.
Objectives: To train airmen to perform as airmen in the duties of apprentice nuclear weapons specialists, including the use of special and standard equipment and systems.

Instruction: Lectures and practical exercises in the duties of apprentice nuclear weapons specialists, including the use of special and standard equipment and systems.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0591

SPECIAL TRAINING, AN/URN-3A MAINTENANCE FIELD AND ORGANIZATIONAL (F & O)

Course Number: ATS30451-2
Location: 3380th Technical School
Keesler AFB, MS.
Length: 4 weeks (120 hours).
Exhibit Dates: 10/62-12/68.
Objectives: To train personnel in the maintenance of the AN/URM-3A dual TACAN system.

Instruction: Lectures and practical exercises in the maintenance of the AN/URM-3A dual TACAN system.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (6/74).

AF-1715-0592

FIRE CONTROL SYSTEMS TECHNICIAN (MA-10, AGG-14 SYSTEM)

Course Number: AAR32270M
Location: 3415th Technical School
Lowry AFB, CO.
Length: 11 weeks (330 hours).
Exhibit Dates: 10/60-12/68.
Objectives: To train enlisted personnel to perform as fire control systems technicians.

Instruction: Lectures and practical exercises in the maintenance of fire control systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).

AF-1715-0593

ELECTRICIAN, SM-80

Course Number: ALR54230G
Location: 3415th Technical School
Channing AFB, CO.
Length: 5 weeks (150 hours).
Exhibit Dates: 12/62-12/68.
Objectives: To train personnel to perform as electricians.

Instruction: Lectures and practical exercises in the functions of electricians, including the use of special and standard equipment and systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68).
COURSE EXHIBITS.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (6/74) in the upper-division baccalaureate category, credit in electronics and electrical laboratory on the basis of institutional evaluation (6/74).

AF-1715-0593
NUCLEAR WEAPONS SPECIALIST

Course Number: AZR33130.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 15 weeks (450 hours).
Exhibit Dates: 3/61-12/68.
Objectives: To train enlisted personnel with previous technical training to perform as apprentice nuclear weapons specialists.

Instruction: Lectures and practical exercises on the functions of nuclear weapons specialists, including DC and AC, series and parallel resistance circuits, reactive circuits; series RC, RL and RCL circuits and series resistance principles of vacuum tubes and transistors; amplifiers and radar; introduction to nuclear weapons; and weapon description and operation.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0596
WEAPONS MECHANIC, FIGHTER INTERCEPTOR

Course Number: AB46230C.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 16 weeks (450 hours).
Exhibit Dates: 12/57-12/68.
Objectives: To train enlisted personnel to perform as apprentice weapons mechanics on fighter-interceptor aircraft.

Instruction: Lectures and practical exercises in weapons maintenance. Course includes a brief discussion of the fundamentals of: maintenance of operational efficiency of aircraft weapons, automatic guns, associated armament equipment, interceptor launching systems, and nuclear weapons.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0597
WEAPONS MECHANIC, FIGHTER BOMBER

Course Number: AB46230B.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 16 weeks (450 hours).
Exhibit Dates: 12/57-12/68.
Objectives: To train enlisted personnel to perform as apprentice weapons mechanics on bomber aircraft.

Instruction: Lectures and practical exercises in weapons maintenance on bomber aircraft. Topics include electrical fundamentals, inspection and installation of aircraft weapons, small arms, launching racks, and shackles; maintenance of operational efficiency of aircraft weapons, small arms, launching gear; repair and modification of aircraft weapons, gun mounts, small arms, launching racks and shackles; and loading of munitions on aircraft.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0598
ELECTRONIC COMPUTER SYSTEMS REPAIRMAN (EDTCC/SACCS)

Course Number: 3ABR30534A.
Location: 3415th Technical School, Keesler AFB, MS.
Length: 32 weeks (948 hours).
Exhibit Dates: 12/71-12/73.
Objectives: To train enlisted personnel to perform the duties of an electronic computer systems repairman.

Instruction: Lectures and practical exercises in the repair of electronic computer systems, including DC and AC circuits, solid-state power supplies, solid-state power supplies, computer logic, computer components, computer systems, system operation and programming, core memories, drum systems, and input-output devices.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0599
GUIDANCE SYSTEM MECHANIC (TM-61)

Course Number: AB31130A.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 25 weeks (750 hours).
Exhibit Dates: 12/71-12/73.
Objectives: To train enlisted personnel to install, operate, maintain, and inspect missile guidance systems and associated test equipment.

Instruction: Lectures and practical exercises in the maintenance, operation, and installation of missile guidance systems. Topics include fundamentals of electronics, fundamentals of alternate current, vacuum and gas-filled tubes, amplifiers, regulators, and servo generators, guidance system and base station circuits, and other missile guidance equipment.
AF-1715-0602
AIRCRAFT ELECTRONIC NAVIGATION SYSTEM REPAIRMAN (TACAN SUPPLEMENT)

Course Number: Version 1: AZR30151-1, Version 2: AZR30152-1
Location: 3380th Technical School, Keesler AFB, MS.
Length: Version 1: 2-weeks (90 hours), Version 2: 2-weeks (180 hours)
Exhibit Dates: Version 1: 9/65-12/68.

Objectives: To train personnel as aircraft electronic navigation equipment repairmen (TACAN supplement).

Instruction: Lectures and practical exercises on the inspection and maintenance of AN/ARN-21 equipment; block diagram analysis; circuit analysis, bench testing, detailed signal analysis and adjustment of AN/ARN-21; alignment of AN/ARN-21 RF circuits; troubleshooting techniques; and functional analysis, test procedures, and trouble analysis of beacon simulator HL-103.


AF-1715-0603
NUCLEAR WEAPONS SPECIALIST (RE-ENTRY VEHICLE) (LGM-30C) (MK 11), (1216P.

Course Number: AZR33103B-7.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 8 weeks (240 hours).
Exhibit Dates: 11/62-12/68.

Objectives: To train personnel to perform as apprentice nuclear weapons specialists.

Instruction: Lectures and practical exercises in the advanced skills and knowledge necessary for assignment to duty as apprentice nuclear weapons specialists. Course includes basic mathematics, solid-state electronics (basic digital techniques), and re-entry, vehicle specific.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (6/74).

AF-1715-0604
ORIENTATION, AN/FSQ-7, AN/FSQ-8

Course Number: XX3016-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6 weeks (180 hours).
Exhibit Dates: 8/57-12/68.

Objectives: To provide commissioned officers with familiarization training in SAGE computer systems.

Instruction: Lectures and practical exercises in the maintenance of SAGE computers. Course includes the SAGE system, basic computer theory, power supplies and marginal checking, maintenance and operation programs, and input and output systems.

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

AF-1715-0605
AEROSPACE GROUND EQUIPMENT REPAIRMAN


Objectives: To train aerospace ground equipment personnel to inspect, maintain, and repair aircraft ground equipment.

Instruction: All Versions: Lectures and practical exercises in aircraft ground equipment inspection, maintenance, and repair, including generators and motors, reciprocating engines, generator sets, air compressors, refrigerators, and heaters. Version 1: Instruction includes brief discussion of electrical fundamentals. Version 2: Instruction includes AC and DC circuits and electronic fundamentals. Version 3: Instruction includes brief discussion of electrical fundamentals. Version 4: Instruction includes brief discussion of electrical fundamentals.


AF-1715-0606
AUTOMATIC ASTRO COMPASS TYPE MD-1 (FIELD AND ORGANIZATIONAL) (F & O)

Course Number: SS4270-4.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 5 weeks (150 hours).
Exhibit Dates: 5/58-12/68.

Objectives: To train enlisted personnel to repair and perform field and organizational maintenance on automatic astro compass systems.

Instruction: Lectures and practical exercises in the repair and field maintenance of automatic astro compass systems. Topics include principles of celestial navigation, review of electronic fundamentals, true heading and altitude-intercept modes of operation, and basic mathematics.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0607
AN/ALR-31 RECEIVER FIELD/ ORGANIZATIONAL (F/O) MAINTENANCE

Course Number: AZS30153-20.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/68-12/73.

Objectives: To train enlisted personnel to repair electronic warfare equipment.

Instruction: Lectures and practical exercises in the repair of electronic warfare equipment. Topics in the course include a cursory discussion of logic principles, system functional analysis, receiver assembly analysis, analysis of display, and system alignment and calibration techniques.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0608
RADIO INERTIAL GROUND GUIDANCE FAMILIARIZATION (SM-65D)

Course Number: OTS3044B-41.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 5 weeks (138 hours).
Exhibit Dates: 11/62-12/68.

Objectives: To train commissioned officers to handle troubleshooting concerns of a specific ground guidance system.

Instruction: Lectures and practical exercises in the operation of a specific ground guidance system. Course includes the rate, track, and computer subsystems and is limited in application to this specific ground guidance system.

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

AF-1715-0609
INTEGRATED AVIONICS COMPONENT SPECIALISTS (COMMUNICATION/ MISSION AND TRAFFIC CONTROL, AND PENETRATION AIDS)

Course Number: SABR3261B.
Location: 3415th Technical School, Lowry AFB, CO.

Objectives: To train airmen as integrated avionics component specialists.

Instruction: Lectures and practical exercises in the maintenance, assembly, disassembly, and alignment of avionics commu-
COURSE EXHIBITS

1-200

nunication and traffic control devices, including
mathematics and electronics principles; block-diagram analysis of: system pres-
surization, cooling, and closed cryogenic
units, and of the HF and UHF communica-
tion equipments: transponders; instrument
landing approach, tactical air navigation,
countermeasures receiving, track breaker,
and radar homing and warning systems;
central data computer, analysis of heterodyne and other modulation schemes;
microwave equipment repair; servomechanisms and infrared sensing devices;
and electronic test procedures.

Credit Recommendation: Version 1: In
the lower-division baccalaureate/associate
degree category, 2 semester hours in elec-
trical technology (6/74); in the upper-
division baccalaureate category, 1 semester
hour in electrical laboratory (6/74).

AF-1715-0610

1. WEAPONS CONTROL SYSTEMS
MECHANIC (F-4E/APO-120)

2. WEAPONS CONTROL
SYSTEMS MECHANIC (F-4E/APO-120)

(WEAPONS CONTROL SYSTEMS
MECHANIC (F-4E))

Course Number: 3ABR3231Q
Location: 8145th Technical School,
Lowry AFB, CO.
Length: Version 1: 29-31 weeks
(882-912 hours). Version 2: 33 weeks
(894 hours).

Exhibit Dates: Version 1: 8/10-12/73.
Version 2: 2/56-7/70.

Objectives: To train airmen as weapon
control system mechanics.

Instruction: Lecture and practical exer-
cises in the duties of weapon control
system mechanics, including weapons con-
trol system familiarization and system test
equipment; data flow analysis of pulse
transmitter and receiver sections, antenna
and display systems, transmitter and radar
computer functions, power distribution and
missile-launching circuits, lead computing
circuitry, InvalidArgumentException, and
weapon release computer,
p and system tie-in, maintenance
management, troubleshooting, and repair
and installation procedures.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 8 semester hours; in electronics,
and 2 in electricity or electronics on the
basis of institutional evaluation (6/74); in
the upper-division baccalaureate category,
6 semester hours in electronics, and addi-
tional credit in electronics on the basis
of institutional evaluation (6/74).

AF-1715-0611

K-SERIES STABILIZATION AND
OPTICS TECHNICIAN

Course Number: AA3217EB
Location: 8215th Technical School,
Lowry AFB, CO.
Length: Version 1: 22 weeks (660
hours). Version 2: 16 weeks (480 hours).

Exhibit Dates: Version 1: 4/55-12/68.

Objectives: To train experienced tech-
cicians to check, maintain, operate, and
repair K-series stabilization and optics
equipment; analyze malfunctions; and dis-
avantage repair components.

Instruction: Lectures and practical exer-
cises on the operation, maintenance, and
repair of K-series stabilization and optics
equipment, including AC and DC funda-
mentals; principles of tubes, amplifiers,
synchro and gyroscopic; fundamentals of
the K-series stabilization system, stabil-
ization system, and test equipment; and
Y-3 and Y-4 optical systems and coordinate
conversion.

Credit Recommendation: Version 1: In
the lower-division baccalaureate/associate
degree category, 1 semester hour in electrical
laboratory (6/74).

AF-1715-0615

INTERMEDIATE AND ORGANIZATIONAL
MAINTENANCE, TSEC/KW-7

Course Number: 3AZR30560-7
Location: 8325th Technical School,
Lackland AFB, TX.
Length: 6 weeks (225 hours).

Exhibit Dates: 7/1-12/73.

Objectives: To train enlisted personnel
to perform as cryptographers.

Instruction: Lectures and practical exer-
cises in cryptography. Topics include timing
circuits, send-and-receive phasing, send-
and-receive extending, cipher mode, and
system maintenance.

Credit Recommendation: Insufficient data
for evaluation (6/74).

AF-1715-0616

AN/FPS-27 FIELD AND ORGANIZATIONAL,
(FILES MAINTENANCE)

Course Number: 2AZR3072-60
Location: 8180th Technical School,
Keesler AFB, MS.
Length: 11 weeks (336 hours).

Exhibit Dates: 8/68-12/73.

Objectives: To train enlisted personnel to
maintain, repair, align, and calibrate specific
radar sets.

Instruction: Lectures and practical exer-
cises on the maintenance and calibration of
specific radar sets. Course deals mainly with
the identification of components of the radar set and block-diagram analysis of trigger circuits.

Credit Recommendation: See explanatory
note at the beginning of the Air Force sec-

AF-1715-0617

SPECIAL TRAINING ON RADAR BOMBING
NAVIGATION SYSTEM, AN/APQ-24A

Course Number: SS32171F-2
Location: 8314th Technical School,
Keesler AFB, MS.
Length: 14 weeks (420 hours).

Exhibit Dates: 3/5-12/68.

Objectives: To train enlisted personnel to
perform organizational and field mainte-
nance on radar bombing navigation systems.

Instruction: Lectures and practical exer-
cises in the maintenance of specific radar
bombing navigation systems. Course in-
cludes functional analysis of various elec-
tronic devices such as the transmitter-and
receiver; line diagram study of oscillators,
shapers, and other related equipment; and
functional analysis of tilt and rate servo drives;
and familiarization with the associated mechani-
cal and electronic hardware.

Credit Recommendation: In the lower-
division baccalaureate/associate degree
category, 1 semester hour in electrical
laboratory (6/74); in the upper-division
baccalaureate category, 1 semester hour in
electrical laboratory on the basis of institu-
tional evaluation (6/74).
AF-1715-0618

TRACKING (SAGE)
Course Number: OZR1744B-1
Location: 3380th Technical School, Keesler AFB, MS.
Length: 8 weeks (240 hours).
Exhibit Dates: 8/60-12/68.
Objectives: To train officers to perform as tracking officers (SAGE).
Instruction: Lectures and practical exercises in the duties of tracking officers (SAGE), including SAGE organizational and functional concepts, communications, symbology interpretation, equipment, and procedures for all positions within the tracking element, and background information on related sections in the direction, communications network, and weapons employed by the SAGE system.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/74).

AF-1715-0619

TRACKING (SAGE)
Course Number: AZR27330B-Z
Location: 3380th Technical School, Keesler AFB, MS.
Length: 6-8 weeks (180-240 hours).
Exhibit Dates: 8/60-12/68.
Objectives: To train airmen to perform as track monitors and track initiators.
Instruction: Lectures and practical exercises in track monitoring and initiating, including SAGE organizational concepts, communications, symbology interpretation, positioning, equipment check-out procedures, and tracking functions and related procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics laboratory (6/74).

AF-1715-0620

WEAPONS CONTROLLER TRAINING (INTERCEPTOR CONTROLLER TRAINING)
Course Number: 174100A;174100; 164100.
Location: Air Training Command, Tyndall AFB, FL.
Length: 5-10 weeks (245-310 hours).
Exhibit Dates: 7/57-Present.
Objectives: To train enlisted personnel as basic weapons controllers in air defense and tactical air defense systems laboratory (6/74).
Instruction: Lectures and practical exercises in weapons control orientation and theory, basic weapons controlling processes, beam and front intercept tactics, multiple intercept tactics, tactical selection, live intercept proficiency, the air defense system, and GPA-37 radar familiarization.
Credit Recommendation: No credit because of the military nature of the course (6/74).

AF-1715-0621

PRIMARY-BASIC NAVIGATOR UPGRADING
Course Number: 131103.
Location: 77th Training Command, Mather AFB, CA.
Length: 26 weeks (714 hours).
Exhibit Dates: 6/56-12/68.
Objectives: To provide previously rated navigators with training in aircraft observation electronics and navigation principles.
Instruction: Lectures and practical exercises in the duties and navigation required for aircraft observation duties, including navigation, Loran and radio principles, meteorology, electricity and magnetism, AC principles, vacuum tubes, radar systems and navigation, aircraft observation equipment, and basic aeronautics.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics or electricity, 2 in meteorology, and 2 in navigation (6/74). In the upper-division baccalaureate category, 3 semester hours in navigation, provided that no credit has previously been awarded in this field (12/68).

AF-1715-0622

AEROSPACE CONTROL AND WARNING SYSTEMS OPERATOR (MANUAL)
Course Number: 3ABR27630.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS; 3380th Technical School, Keesler AFB, MS.
Length: 7-8 weeks (216 hours).
Exhibit Dates: 7/70-12/73.
Objectives: To train enlisted personnel to operate SAGE aerospace control and warning systems.
Instruction: Lectures and practical exercises in the duties and skills of an aerospace control and warning systems operator. Course includes radar operation, plotting, telling, track monitoring, and height finding.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/74).

AF-1715-0623

AEROSPACE CONTROL AND WARNING SYSTEMS OPERATOR
Course Number: 3ABR27630-1.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS; 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (120-144 hours).
Exhibit Dates: 8/72-12/73.
Objectives: To train enlisted personnel to operate SAGE aerospace control and warning systems.
Instruction: Lectures and practical exercises in the duties and skills of an aerospace control and warning systems operator. Course includes radar operation, plotting, telling, track monitoring, and height finding.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hour in electronics laboratory (6/74).

AF-1715-0624

N-1 AND M-D-1 COMPASSES, AN/AJA-1 COMPUTER AND A-14 AUTOPILOT
Course Number: ATS42353-16.
Location: 334th Technical School, Chanute AFB, IL.
Length: 5 weeks (390 hours).
Exhibit Dates: 2/59-12/68.
Objectives: To train autopilot and compass system repairmen to perform organizational and field maintenance on the N-1 and MD-1 compasses, AN/AJA-1 computer, and A-14 autopilot.
Instruction: Lectures and practical exercises in the repair and maintenance of the N-1 and MD-1 compasses, AN/AJA-1 computer, and A-14 autopilot. Topics include components and troubleshooting; theory and operation of gyrocompasses, inspection, field and instrument repair, and test procedures, autopilot operation and circuit analysis, and control system circuitry.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical systems laboratory (6/74).

AF-1715-0625

FIELD AND ORGANIZATIONAL MAINTENANCE, PB-10 AUTOPILOT
Course Number: SS42350-13.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 5 weeks (160 hours).
Exhibit Dates: 2/59-12/68.
Objectives: To train selected enlisted personnel to perform field and organizational maintenance on the PB-10 autopilot.
Instruction: Lectures and practical exercises in the maintenance of the PB-10 autopilot. Course includes principles of operation, construction, maintenance, inspection, and trouble analysis of the PB-10 autopilot, flux-gate compass system, and flight path computer.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electric systems laboratory (6/74).

AF-1715-0626

E-6 AUTOPILOT AND N-1 COMPASS
Course Number: SS42353-8.
Location: 334th Technical School, Chanute AFB, IL.
Length: 6 weeks (180 hours).
Exhibit Dates: 7/58-12/68.
Objectives: To train aircraft electrical repairmen and instrument repairmen to perform organizational and field maintenance on E-6 automatic pilots and N-1 compasses as installed on KB-50 and WB-50 aircraft.
Instruction: Lectures and practical exercises in the repair and maintenance of the E-6 automatic pilot as installed on the KB-50 and the WB-50 aircraft. Course includes aircraft familiarization, electrical and electronic theory, gyroscopic principles, aerodynamic principles, operation of the N-1 compass system, system malfunction analysis, unit familiarization, signal circuits, and operational checks.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical systems laboratory (6/74).

AF-1715-0627

MC-1 AUTOPILOT AND N-1 COMPASS (KC-135)
Course Number: SS42350-43.
Location: 334th Technical School, Chanute AFB, IL.
Length: 7 weeks (210 hours).
Exhibit Dates: 8/58-12/68.
1-202 \textbf{COURSE EXHIBITS}\n
\textbf{AF-1715-0628} \hspace{1cm} E-4 (A-12) AUTOPILOT

\textbf{Course Number:} SS42535-3
\textbf{Location:} 3345th Technical School, Chanute AFB, IL
\textbf{Length:} 7 weeks (360 hours)
\textbf{Objectives:} To train automatic and field maintenance on B-47 helicopters, and 4 years of experience in aircraft maintenance.

\textbf{Instruction:} Lectures and practical exercises in the repair and maintenance of E-4 (A-12) automatic pilots. Course includes aircraft familiarization, electricity and electronics, gyroscopic principles, autopilot component familiarization, power distribution, interlock circuits, control loops, operation techniques, and malfunction analysis.

\textbf{Credit Recommendation:} In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical systems laboratory (6/74).

\textbf{AF-1715-0629} \hspace{1cm} A-12 AUTOPILOT

\textbf{Course Number:} ATS42535-5
\textbf{Location:} 3345th Technical School, Chanute AFB, IL
\textbf{Length:} 7 weeks (360 hours)
\textbf{Objectives:} To train aircraft electrical repairmen to perform organizational and field maintenance on A-12 automatic pilots.

\textbf{Instruction:} Lectures and practical exercises in the repair and maintenance of A-12 automatic pilots. Course includes aircraft familiarization, electricity and electronics, gyroscopic principles, autopilot component familiarization, power distribution, interlock circuits, control loops, operation techniques, and malfunction analysis.

\textbf{Credit Recommendation:} In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical systems laboratory (6/74).

\textbf{AF-1715-0630} \hspace{1cm} A-14 AUTOPILOT AND N-1, MD-1 COMPASSES

\textbf{Course Number:} SS42335-16
\textbf{Location:} 3345th Technical School, Chanute AFB, IL
\textbf{Length:} 1 week (40 hours)
\textbf{Objectives:} To train personnel to perform organizational and field maintenance on the A-14 autopilot and N-1, MD-1 compasses.

\textbf{Instruction:} Lectures and practical exercises in the repair and maintenance of the A-14 autopilot and N-1, MD-1 compasses. Course includes aircraft familiarization, electricity and electronics, gyroscopic principles, autopilot component familiarization, power distribution, interlock circuits, control loops, operation techniques, and malfunction analysis.

\textbf{Credit Recommendation:} In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical systems laboratory (6/74).
AF-1715-0635

1. DEFENSE MISSILE GUIDANCE MECHANIC—FALCON (AIM) (DEFENSE MISSILE GUIDANCE MECHANIC (GARS))

(GUIDANCE SYSTEMS MECHANIC (GARS))

(GUIDANCE SYSTEMS MECHANIC (GAR-1/2/3))

AF-1715-0636

MISSILE LAUNCH/MISSILE OFFICER (ATLAS HGM-16F)

MISSILE LAUNCH/MISSILE OFFICER (SM-65F)

Course Number: OZR1821D; OZR1821C; OZR1821B.

Location: 350th Technical School, Sheppard AFB, TX.

Length: 8 weeks (240 hours).

Exhibit Dates: 11/72-12/73.

Objectives: To train commissioned officers to operate and maintain a specific weapon system.

Instruction: Lectures and practical exercises in the operation and maintenance of the 107A weapon system. Course includes organization and management of operations and maintenance activities; principles and operational analysis of Atlas HGM-16F subsystems; function of launch complex facilities; aerospace ground equipment; and the inspection and coordination of operations and maintenance activities.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and electrical laboratory (6/74). In the upper-division baccalaureate category, 1 semester hour in electrical laboratory (6/74).

AF-1715-0639

NUCLEAR WEAPONS SPECIALIST (RE-ENTRY VEHICLES) (WEAPONS FUZZING SYSTEM SPECIALIST (RE-ENTRY VEHICLES))

Course Number: ABR3310B.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 14-18 weeks (390-510 hours).

Exhibit Dates: 12/60-12/68.

Objectives: To train enlisted personnel as nuclear weapons specialists.

Instruction: Lectures and practical exercises in basic mathematics, basic AC and DC circuits, electron theory, linear circuit elements, motors and generators, electron tube devices, decomposition of re-entry vehicles, maintenance, and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics laboratory (6/74).
AF-1715-0641

COURSE EXHIBITS

1. MISSILE ELECTRONIC EQUIPMENT SPECIALIST (CGM-13B, TEMS)
2. MISSILE ELECTRONIC EQUIPMENT SPECIALIST (CGM-13B, TEMS)
3. TACTICAL MISSILE CHECKOUT EQUIPMENT REPAIRMAN (CGM-13B, TEMS)

(TACTICAL MISSILE CHECKOUT EQUIPMENT REPAIRMAN (MACW-13C/TEMS))

(TACTICAL MISSILE CHECKOUT EQUIPMENT REPAIRMAN (TM-76B, TEMS))

Course Number: Version 1: 3/ALR31652N
Version 2: ALR31652N
Version 3: ALR31434N
Location: 3415th Technical School, Lowry AFB, CO.
Length: Version 1: 27 weeks (876 hours)
Version 2: 23 weeks (930 hours)
Version 3: 18 weeks (540 hours)
Exhibit Dates: Version 1: 6/68-Present
Version 2: 2/66-5/68
Version 3: 9/61-6/66

Objectives: To train personnel to operate, maintain, and repair specific missile electronic equipment.

Instruction: Lectures and practical exercises in missile electronic equipment operation and maintenance, including electronic circuits, analysis, flight controls and inertial guidance system, maintenance and launch areas, airborne ground equipment, verification, calibration, test equipment maintenance, set, and specialized electronics.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester-hours in basic electrical laboratory (6/74).

AF-1715-0643

DEFENSE MISSILE CONTROL MECHANIC/TECHNICIAN, IM-91B

Course Number: AT31512K-1
Location: 3415th Technical School, Chanute AFB, IL
Length: 16 weeks (480 hours)
Exhibit Dates: 7/61-12/68
Objectives: To train personnel as defense missile control mechanics and technicians.

Instruction: Lectures, and practical exercises in the duties of defense missile control mechanics and technicians, including flight, control systems malfunction isolation, removal and replacement of defective flight control systems components, flight control systems check-out, and operation of associated aerospace ground equipment

Credit Recommendation: In the lower-division baccalaureate degree category, 2 semester-hours in basic electrical laboratory (6/74).

AF-1715-0644

MISSILE MECHANIC (BALLISTIC)

Course Number: ARB43330-5
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 17 weeks (540 hours)
Exhibit Dates: 2/61-12/68
Objectives: To train enlisted personnel to perform as apprentice missile mechanics.

Instruction: Lectures and practical exercises in the duties of apprentice missile mechanics. Course includes basic electronics, AC and DC circuits, motors and generators, wiring diagrams, inverters, and electrical and mechanical troubleshooting.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester-hours in electrical or electronics, 4 in mechanical or hydraulic laboratory (6/74).

AF-1715-0645

GUIDANCE CONTROL OFFICER (SM-65)

Course Number: OZR3044-5; OTS3944-2
Location: 3380th Technical School, Keaster AFB.
Length: 17 weeks (510 hours)
Exhibit Dates: 12/60-12/68
Objectives: To train commissioned officers to operate a guidance system console, and to analyze missile subsystems data flow, countdown and missile flight profiles.

Instruction: Lectures and practical exercises in the operation of missile guidance control systems. Course includes an introduction to guidance systems and special circuits, AN/GSO-33 computer and associated equipment, rate transmitter and receiver group, rate data and check-out equipment, track generator, track receiver and antenna system, and track data and check-out equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester-hours in electrical laboratory (6/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (6/74).

AF-1715-0646

TACTICAL MISSILE CHECKOUT EQUIPMENT REPAIRMAN (TM-76A/TEMS)

(TACTICAL MISSILE CHECKOUT EQUIPMENT REPAIRMAN (TM-76A/TEMS))

(TACTICAL MISSILE CHECKOUT EQUIPMENT REPAIRMAN (TM-76A))

(TACTICAL MISSILE CHECKOUT EQUIPMENT REPAIRMAN (TM-76A))

(MISSILE TEST EQUIPMENT SPECIALIST (TM-76A))

Course Number: All Versions: ALR31434M
Version 2: 2/61-12/68
Version 3: 9/61-12/68
Exhibit Dates: Version 1: 2/61-12/68
Version 2: 2/61-12/68
Version 3: 9/61-12/68
Objectives: To train airman to perform as tactical missile check-out equipment repairmen.

Instruction: Lectures and practical exercises in tactical missile check-out equipment repair, including MGM-13B weapon system, specialized electronics calibration test equipment, flight control system and check-out equipment, flight controls check-out equipment, calibration, guidance system and its check-out equipment calibration, missile preflight test equipment, and launch area check-out equipment. Version 1 Lectures and practical exercises on the function of missile test equipment specialist, including TM-76A weapon system, calibration van, basic missile checker calibration, guidance system test set and calibration, missile preflight tester and calibration, and FCT and RTF calibration.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester-hours in electrical and electrical laboratory (6/74); in the upper-division baccalaureate category, 1 semester-hour in electrical laboratory for non-electrical engineering majors (6/74).

Version 2: In the lower-division baccalaureate/associate degree category, 1 semester-hour in electrical and electrical laboratory (6/74); in the upper-division baccalaureate category, 1 semester-hour in electrical laboratory for non-electrical engineering majors (6/74).

AF-1715-0647

1. MISSILE OFFICER (TM-76A)
2. GUIDED MISSILE MAINTENANCE OFFICER (TM-76A)

Course Number: Version 1: OBR3121G
Version 2: OBR3121B-1
Location: 3415th Technical School, Lowry AFB, CO.
Length: Version 1: 27 weeks (810 hours)
Version 2: 25 weeks (750 hours)
Exhibit Dates: Version 1: 12/60-12/68
Version 2: 12/60-4/61
Objectives: To train officers to perform as guided missile maintenance officers (TM-76A).

Instruction: Version 1: Lectures and practical exercises in the selection of guided missile maintenance officers (TM-76A). Version 2: Lectures and practical exercises in the selection of guided missile maintenance officers (TM-76A), including air weapons management; fundamentals of electricity and alternating current; vacuum tube amplifiers, oscillators and wave shaping; weapon, propulsion, flight control, and guidance systems; missile preflight test pack; support area operations.
AF-1715-0649

1. MISSILE SYSTEMS MAINTENANCE
   • SPECIALIST (AGM-28)
     (MISSILE GUIDANCE AND CONTROL SPECIALIST)
   • SPECIALIST (AGM-28)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)

2. AIR LAUNCH MISSILE GUIDANCE
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)

3. RADIO SIMULATION GUIDANCE
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)

4. ACRONYM GUIDANCE MECHANIC
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)
   • SPECIALIST (AGM-28/A/B)
     (MISSILE GUIDANCE MECHANIC)

AF-1715-0650

1. DEFENSE MISSILE GUIDANCE
   • SPECIALIST (GAR-2/11)
     (MISSILE GUIDANCE SPECIALIST)
   • SPECIALIST (GAR-2/11)
     (MISSILE GUIDANCE SPECIALIST)
   • SPECIALIST (GAR-2/11)
     (MISSILE GUIDANCE SPECIALIST)

2. GUIDANCE SYSTEMS SPECIALIST (GAR-1)
   • SPECIALIST (GAR-1)
     (MISSILE GUIDANCE SPECIALIST)
   • SPECIALIST (GAR-1)
     (MISSILE GUIDANCE SPECIALIST)
   • SPECIALIST (GAR-1)
     (MISSILE GUIDANCE SPECIALIST)
AF-1715-0652

MISSILE FACILITIES SPECIALIST/TECHNICIAN

SM-68B

Course Number: ATC54150F-3; ATC54150F-4
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 14 weeks (420 hours).
Exhibit Dates: 11/61-12/68.

Objectives: To train airmen as SM-68B missile facilities specialists and technicians.

Instruction: Lectures and practical exercises in SM-68B missile facilities, including facility water and waste, air conditioning, electrical and pneumatic systems; launch monitoring; electrical power generation and distribution; propellant transfer; systems integration and maintenance; and facility communication systems.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (6/74).

AF-1715-0653

INSTRUMENT TRAINER SPECIALIST (C-11)

(ELECTRONIC INSTRUMENT TRAINER SPECIALIST (C-11 TYPE))

Course Number: ABR34131B; ABR34131B
Location: 3345th Technical School, Chanute AFB, IL.
Length: 26-30 weeks (750-810 hours).
Exhibit Dates: 12/54-12/68.

Objectives: To train personnel as instrument trainer specialists.

Instruction: Lectures and practical exercises in the duties of instrument trainer specialists, including aerodynamics, electricity, electronics, electronic controls, trainer maintenance and operation, AC and DC, reactive circuits, principles of vacuum tubes and transistors, special-purpose tubes, amplifiers and oscillators, motor and servo mechanisms, flight and engine systems, and radio.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68).

AF-1715-0654

MISSILE TEST EQUIPMENT TECHNICIAN/SPECIALIST (LAUNCH CONTROL SYSTEMS (SM-65F))

Course Number: ATSX570P-16.
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 15 weeks (450 hours).
Exhibit Dates: 5/61-12/69.

Objectives: To train selected enlisted personnel to maintain missile test equipment.

Instruction: Lectures and practical exercises in the duties and tasks of a missile test equipment technician/specialist. Course includes a review of algebra, binary and octal number systems, transistor circuit theory, basic digital computers, and basic relay logic devices.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic digital electronics (6/74); in the upper-division baccalaureate category, credit in electricity and electronics on the basis of institutional evaluation (6/74).

AF-1715-0655

INSTRUMENT TRAINER SPECIALIST (P)

(INSTRUMENT TRAINER SPECIALIST (P & Z))

(ELECTRONIC INSTRUMENT TRAINER SPECIALIST (Z & P TYPES))

Course Number: ABR34131B; ABR34131B.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 23-25 weeks (600-660 hours).
Exhibit Dates: 9/61-12/68.

Objectives: To train airmen to perform as Mace and TM-76B tactical missile launch specialists.

Instruction: Lectures and practical exercises in the duties of SM-65F tactical missile launch specialists, including electronic fundamentals; direct current; use of meters; series resistance; parallel resistive circuits; series-parallel resistance and bridge circuits; generation of AC and DC voltages; frequency spectrum; inductance, capacitance, reactance, impedance and transformers; alternating current; rectifier circuits; series and parallel RC, RL, and RCL circuits and resonance; vacuum tubes and solid-state devices; and amplifiers and oscillators.

Credit Recommendation: 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 evaluation (12/68); in the upper-division baccalaureate category, credit in electricity and electronics on the basis of institutional evaluation (6/74).

AF-1715-0658

MISSILE LAUNCH OFFICER (CGM-13B)

(MISSILE LAUNCH OFFICER (MACE, MGM-13C))

(MISSILE LAUNCH OFFICER (TM-76B))

(GUIDED MISSILE OPERATIONS OFFICER (TM-76B))

Course Number: OBR1821N; OBR1821C-2; OBR1821.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 18-19 weeks (540-570 hours).
Exhibit Dates: 12/60-12/68.

Objectives: To qualify officers as MGM-13C missile launch officers or TM-76B guided missile operations officers.

Instruction: Lectures and practical exercises in operation and supervision of MGM-13C MACE tactical missile launch activities, and in the duties of TM-76B guided missile operations officers, including electronic principles, MGM-13C weapon system, missile systems, flight controls, and inertial guidance; LAGG principles; launch familiarization; launch area operations and maintenance; guided missile operations fundamentals; vacuum tubes and circuits; servos and controllers; vacuum tubes and solid-state devices; and amplifiers and oscillators.

Credit Recommendation: 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 evaluation (12/68); in the upper-division baccalaureate category, credit in electricity and electronics on the basis of institutional evaluation (6/74).
category, 2 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (12/68); in the upper-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics (12/68); in the lower-division baccalaureate-category, 1 semester hour in electrical laboratory (6/74).

AF-1715-0659
RADIO RELAY EQUIPMENT REPAIRMAN AN/ FCC-21, AN/MCC-13, AN/FCC-32, MC-50, MW-503, and AN/FRC-39A(V)
Course Number: ABR1821M; ABR31234E
Location: OBR 1821C-1, 3750th Technical School, Sheppard AFB, TX.
Length: 7-12 weeks (210-360 hours).
Exhibit Dates: 3/6-12/68.
Objectives: To train personnel to perform as baccalaureate/associate degree category, 2 semester hours in electrical and mechanical laboratory (12/68).

AF-1715-0660
MISSILE LAUNCH OFFICER (MGM-13A)
(MISSILE LAUNCH OFFICER (MACE, MGM-13B))
(MISSILE LAUNCH OFFICER (TM-76A))
Course Number: OBR1821M; OBR3121C-3; OBR1821B
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 13-19 weeks (390-570 hours).
Exhibit Dates: 3/6-12/68.
Objectives: To train personnel to perform as MGM-13A and TM-76A missile launch officers.
Instruction: Lectures and practical exercises on the duties of missile launch officer, maintenance; management; electronics; TM-76A ground equipment and MGM-13A missile systems; power plant; flight control, and guidance systems; launch area operations; systems recycle pack; nuclear weapons orientation; mathematics for electronics; DC and AC electricity; and launch control center.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (12/68).

AF-1715-0661
MISSILE TEST EQUIPMENT TECHNICIAN/ SPECIALIST (PROGRAMMED CHECKOUT EQUIPMENT) (SM-65F)
Course Number: ATS3157O-17
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 15 weeks (450 hours).
Exhibit Dates: 5/16-12/68.
Objectives: To train enlisted personnel in the duties and tasks of missile test equipment specialists.
Instruction: Lectures and practical exercises in the duties and skills of missile test equipment specialists.
Credit Recommendation: 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 electrical laboratory (6/74).

AF-1715-0662
BALLISTIC MISSILE ANALYST SPECIALIST (HGM-25A)
(BALLISTIC MISSILE ANALYST SPECIALIST (SM-68A))
Course Number: ABR13234E
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 16 weeks (480 hours).
Exhibit Dates: 8/6-12/68.
Objectives: To train enlisted personnel who have completed a course in missile systems fundamentals to perform as apprentice ballistic missile analysts and specialists.
Instruction: Lectures and practical exercises in ballistic missile analyst specialization, including characteristics of the SM-68 missile and systems; launch complex layout, equipment, and maintenance; maintenance management; electrical systems data flow analysis and troubleshooting; rocket engine system and hydraulics; flight control system components, operation, and inspection; radio and ground guidance systems operation and associated test sets and equipment; launcher system and antenna protecting and elevating set; and re-entry vehicle, control system, and missile systems check-out and analysis.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical and mechanical laboratory (12/68).

AF-1715-0663
MISSILE LAUNCH/MISSILE OFFICER (BALLISTIC MISSILES)
(GUIDED MISSILE OPERATIONS/MAINTENANCE OFFICER (BALLISTIC MISSILES))
Course Number: OBR1821; OBR3121C-3; OBR1821B
Location: 3750th Technical School, Sheppard AFB, TX.
Length: 8 weeks (180 hours).
Exhibit Dates: 3/6-12/68.
Objectives: To train officers as missile launch officers or missile officers.
Instruction: Lectures and practical exercises in missile systems, including missile launch complex, utilities, propellant transfer system, hazard sensing and damage control, facility and missile electrical systems, missile installation and removal, guidance system, alignment and maintenance procedures, flight control, hydraulics, propulsion system, systems integration, launch control equipment, power distribution, communications systems, and troubleshooting and testing procedures and equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (8/68).
AF-1715-0666

1. TACTICAL MISSILE LAUNCH SPECIALIST (MMG-13A)
2. TACTICAL MISSILE LAUNCH SPECIALIST (MMG-13A)
3. TACTICAL MISSILE LAUNCH SPECIALIST (MMG-13B)

(MISSILE SYSTEMS ANALYST SPECIALIST (TM-76A))


Number: Location: 0 3415th Technical School, Lowry AFB, CO.


Instruction: Lectures and practical exercises in missile systems analysis, including AC and reactive circuits, vacuum tubes and transistors, amplifiers and oscillators, motors, and generators, inertial guidance fundamentals, power supplies, flight controls and gyroscopes, test set operation, launch area equipment operation, and troubleshooting techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics, and credit in electrical laboratory (12/68); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74).

AF-1715-0669

MISSILE SYSTEMS FUNDAMENTALS

Course Number: ABR310202.

Number: Location: 3320th Technical School, Amarillo AFB, TX.

Length: 19 weeks (480 hours).

Exhibit Dates: 5/61-12/68.

Instruction: Lectures and practical exercises in electronics and missile fundamentals, including AC, DC, and reactive circuits; principles of vacuum tubes and transistors; special-purpose tubes; amplifiers and oscillators; motors and servomechanisms; nonlinear wave shaping; multivibrators; computer and guidance principles; basic hydraulic principles; and general missile subjects.

Credit Recommendation: 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 evaluation (12/68).

AF-1715-0670

MISSILE LAUNCH/MISSILE OFFICER (TITAN I, HTM-25B)

(MISSILE LAUNCH/MISSILE OFFICER (SM-410))

Course Number: OZR1821B. OZR1821B. OZR1821B. OZR1821C-2.

Number: Location: 3750th Technical School, Sheppard AFB, TX.

Length: 6-7 weeks (180-210 hours).

Exhibit Dates: 10/61-12/68.

Objectives: To train officers as Titan missile launch officers or missile officers.

Instruction: Lectures and practical exercises in missile systems, including weapon system familiarization; air conditioning and water systems; antenna pointing and elevating system; missile electrical systems; propellant loading and pressurization; re-entry vehicles; missile installation; flight control, hydraulics and guidance systems; launch procedures, equipment and console operation; and maintenance procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics on the basis of institutional evaluation (12/68).
AF-1715-0671
1. MISSILE GUIDANCE AND CONTROL
   SPECIALIST (AIM) (ADC)
   Course Number: Version 1: 3ABR31631-L. Version 2: 3ABR31631-L.
   Location: 3415th Technical School, Lackland AFB, TX.
   Objectives: To train enlisted personnel to become missile guidance and control specialists.
   Instruction: Lectures and practical exercises in electronic principles, including AC and DC circuit theory, Ohm’s law, Kirchhoff’s laws, transistors, vacuum tubes, basic rectifiers, oscillators, and wave-shaping circuits; and missile guidance systems, including circuit analysis, test equipment operation, and calibration, check-out equipment, ground support equipment, and troubleshooting procedures.
   Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 9 semester hours in electronics, 1 in electrical laboratory (6/74); in the upper-division baccalaureate/associate degree category, 11 semester hours in electronics laboratory, and credit in electronics on the basis of institutional evaluation (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity, 2 in mechanical systems (6/74).

AF-1715-0672
GUIDANCE AND CONTROL OFFICER, RIGS
(GHM-25A)
(GUIDANCE AND CONTROL OFFICER (RIGS) (SM-68A))
(GUIDANCE CONTROL OFFICER (RIGS) (SM-68))
   Course Number: OZR3044-6;
   Location: 3750th Technical School, Sheppard AFB, TX.
   Length: 15 weeks (450 hours).
   Objectives: To train guidance control officers in the operation, maintenance, and logistics of the Titan I ground guidance system.
   Instruction: Lectures and practical exercises in the operation, maintenance, and applicable logistics of the Titan I ground guidance system, including missile familiarization, computer fundamentals (digital computers, Boolean algebra, digital electronics, basic programming), computer control and storage, input/output power, ground equipment, data flow, guidance radar, and troubleshooting procedures.
   Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in digital electronics (6/74); in the upper-division baccalaureate category, 2 semester hours in data processing or computer principles (12/68).

AF-1715-0673
MISSILE FACILITIES SPECIALIST/TECHNICIAN
(SM-65F)
   Course Number: ATS54170D-1.
   Location: 3415th Technical School, Lackland AFB, TX.
   Length: 15 weeks (450 hours).
   Objectives: To train enlisted personnel as SM-65F missile facilities specialists.
   Instruction: Lectures and practical exercises in the operation, inspection, and maintenance of launch installations, including heating, ventilation, air cooling, power distribution, pneumatic, hydraulic, fluid storage, and propellant transfer systems; and in the inspection, operation, and maintenance of the launcher, missile lifting system, and cryb suspension.
   Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity, 2 in mechanical systems (6/74).

AF-1715-0674
MISSILE LAUNCH/MISSILE OFFICER (TITAN II)
LG/M-25)
   Course Number: OZR1821F; OZR3121F.
   Location: 3750th Technical School, Sheppard AFB, TX.
   Length: 9 weeks (270 hours).
   Objectives: To train officers in Titan II missile management.
   Instruction: Lectures and practical exercises in Titan II missile management, including missile maintenance and data collection, weapon system familiarization, launch complex, pneumatic, and associated equipment, communications equipment, utilities, propellant transfer system, guidance operation and maintenance, systems integration, propulsion systems, power and launch control, and troubleshooting procedures.
   Credit Recommendation: No credit because of the military nature of the course (6/74).

AF-1715-0675
MISSILE MAINTENANCE OFFICER, WS-133
   Course Number: 3ABR3121G-4.
   Location: 3345th Technical School, Chanute AFB, IL.
   Length: 10-15 weeks (272-438 hours).
   Objectives: To train officers for combat targeting team duties, and in missile equipment maintenance.
   Instruction: Lectures and practical exercises in combat targeting team duties and missile equipment maintenance, including fundamentals and theory of missile electronic and electronic systems, guidance and control systems, launch control facilities, missile systems, aerospace ground equipment, test equipment, and alignment and troubleshooting procedures.
   Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical power laboratory (6/74).

AF-1715-0676
1. AIR TRAFFIC CONTROL RADAR REPAIRMAN, AN/CPN-18, AN/FPN-16
2. AIR TRAFFIC CONTROL RADAR REPAIRMAN (AN/FPN-16 and AN/CPN-18)
   Course Number: 3ABZ30331C.
   Location: 3200th Technical School, Lackland AFB, TX.
   Objectives: Train air traffic controllers to maintain radar equipment and associated communication and test equipment, including direct-current, alternating current, and electron tubes, and power supplies. Version 1: Topics include specific transmitting and receiving systems and related test equipment, such as operating D/F equipment, specific systems, and analysis of specific indicating systems.
   Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electricity and electronics (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical laboratory (7/74).

AF-1715-0677
ELECTRONIC COMPUTER REPAIRMAN, BUIC AN/GSA-15A
   Course Number: 3ABR30531C.
   Location: 3380th Technical School, Keesler AFB, MS.
   Length: 42 weeks (1200 hours).
   Objectives: To train enlisted personnel to repair computer systems.
   Instruction: Lectures and practical exercises in the repair of computer systems. Course includes computer system operation, memory function, timing, and logic; programming and machine language; hardware routines and basic instructions, input/output timing, and tape and drum systems; and troubleshooting.
   Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in digital technology (7/74); in the upper-division baccalaureate category, 1 semester hour in digital technology on the basis of institutional evaluation (7/74).

AF-1715-0678
INTERMEDIATE AND ORGANIZATIONAL MAINTENANCE, TSEC/HY-2
   Course Number: 3AZR30650-10.
   Location: 3275th Technical School, Lackland AFB, TX.
   Length: 6 weeks (153 hours).
   Objectives: To train enlisted personnel to analyze and identify faulty components and to maintain, adjust, and secure ground communication equipment.
I-210 COURSE EXHIBITS

AF-1715-0679
FFBI11 PENETRATION AIDS TEST STATIONS
TECHNICIAN

Course Number: 3ALR30173-1.
Location: 3750th Technical School, Lowry AFB, CO.
Length: 22 weeks (540 hours).
Exhibit Dates: 7/68-1/73.

Objectives: To train enlisted personnel to maintain, operate, and test penetration aids and infrared test stations.

Instruction: Lectures and practical exercises in the installation, maintenance, and operation of penetration aids and infrared test stations.

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

AF-1715-0680
1. AVIONICS NAVIGATION SYSTEMS SPECIALIST
   (AIRCRAFT ELECTRONIC NAVIGATION EQUIPMENT REPAIRMAN)
2. AVIONICS NAVIGATION SYSTEMS SPECIALIST
   (AIRCRAFT ELECTRONIC NAVIGATION EQUIPMENT REPAIRMAN)

Course Numbers: Version 1: 3ABR32831.
Version 2: 2ABR30131.
Version 2: 2ABR30131.

Location: 3750th Technical School, Chanute AFB, IL.
Length: 18 weeks (450 hours).
Exhibit Dates: 1/62-12/68.

Objectives: To train aircrews to operate, maintain, and repair electronic and radio navigation equipment.

Instruction: All Versions: Lectures and practical exercises in the maintenance, repair, and troubleshooting of electronic and radio navigation equipment, including AC and DC, magnetron; oscillator and tuning circuits; crystal filters; tuning devices; radio frequency and power generating equipment; and test equipment. Version 1: Includes binary and octal number, logic function, diagrams and circuits, truth tables, counters and storage devices. Version 2: Includes binary and octal number, logic function, diagrams and circuits. Version 1 includes frequency measurement equipment. Version 2 includes LORAN equipment analysis.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics and FCC theory, 2 semester hours in electronics and FCC theory and maintenance of electronic systems. Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electronics and FCC theory, 1 semester hour in electronics and FCC theory, and 1 semester hour in electronics laboratory (7/74).

AF-1715-0681
WEAPONS MECHANIC (TAC)

Course Number: 3ABR4263-2.

Location: School of Applied Aerospace Sciences, Lowry AFB, CO.


Objectives: To train airmen as weapons mechanics.

Instruction: Lectures and practical exercises in maintenance, management, inspection, and testing of missile systems and components, and troubleshooting of associated equipment.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in engineering, 2 semester hours in mathematics, and 1 semester hour in business and management (7/74).

AF-1715-0682
DIAL CENTRAL OFFICE EQUIPMENT SPECIALIST, SM-68B

Course Number: AZR3623-1.

Location: 375th Technical School, Sheppard AFB, TX.

Length: 24 weeks (615 hours). Exhibit Dates: 7/68-12/68.

Objectives: To train personnel to perform as dial central office equipment specialists.

Instruction: Lectures and practical exercises in the installation, maintenance, and repair of dial central office equipment specialists, including AC and DC, magnetron; oscillator and tuning circuits; crystal filters; tuning devices; radio frequency and power generating equipment; and test equipment. Version 1 includes frequency measurement equipment. Version 2 includes LORAN equipment analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory (7/74).

AF-1715-0683
WEATHER EQUIPMENT SUPERINTENDENT

Course Number: Version 1: AAAR3029.
All Versions: AA25100.

Location: 3345th Technical School, Chanute AFB, IL.


Objectives: To train enlisted personnel to repair and maintain the Kellogg K-60 ballistic missile communications system.
AF-1715-0686

INSTRUMENTATION MECHANIC

Course Number: ATS31350-1.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 19 weeks (600 hours).
Exhibit Dates: 10/60-12/68.

Objectives: To train selected enlisted personnel to install, troubleshoot, and repair telemetry instrumentation.

Instruction: Lectures and practical exercises in the repair of telemetry instruments.

Course includes RC-RL circuitry; basic instrumentation circuitry; transistors; optics and photography; test equipment; principles and components of frequency modulation; time-division demultiplexing; frequency-division multiplexing and airborne transmission components; space telemetry components; frequency-division demultiplexing and time-division multiplexing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in electronics or electricity (7/74).

AF-1715-0687

AIRCRAFT CONTROL AND WARNING RADAR DEPARTMENT

Location: 3380th Technical School, Lowry AFB, CO.

Objectives: To train airmen to perform aircraft control and warning radar repairmen.

Instruction: All Versions: Lectures and practical exercises in the duties of aircraft control and warning radar repairmen and in electronic principles, including DC and AC circuits, magnetism, resonance, diodes, transistors and solid-state systems, vacuum tubes, amplifiers and oscillators, motors, multivibrators, microwave principles, receiver principles, cavity resonators, UHF and microwave oscillators, electrical test equipment, various modulation and demodulation systems, transmission lines, synchron, pulsed and blocking oscillators, regulators, radar principles, transmitters, antenna positioning and indicator systems, and systems maintenance and associated equipment. Version 1: Includes binary and octal numbers, truth tables, Boolean algebra, logic function diagrams, circuits, counters and storage devices, magnetron transmitters and linear receivers, Klystron transmitter, clutter elimination, and identification systems. Version 2: Includes clutter elimination and special-purpose tubes. Version 3: Includes reactive circuits, open-ended waveguides, principles of IF and RF systems, and SIF passive and active systems.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 9 semester hours in electronics (6/74); in the upper-division baccalaureate/associate degree category, 6 semester hours in electronics and mathematics (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and mathematics (12/68); in the upper-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (6/74); in the upper-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (6/74); in the upper-division baccalaureate/associate degree category, 6 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate/associate degree category, 6 semester hours as a technical elective in electronics for non-engineering majors, or 2 in electricity or electronic laboratory (6/74).

AF-1715-0688

FIRE CONTROL SYSTEMS MECHANIC (MA-7 SYSTEM)

Course Number: 3AB3220K.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 32 weeks (870 hours).
Exhibit Dates: 6/57-12/60.

Objectives: To train airmen to operate, troubleshoot, maintain, and repair the MA-7 fire control systems installed in the F-101 aircraft.

Instruction: Lectures and practical exercises in fire control system maintenance, including fundamentals of electricity; amplifiers, oscillators and frequency generator; radar principles; servomechanism principles; general operation and service section; transmitter and receiver; video and range logic; antenna-positioning loop; sight and attack display; bombing computers; MA-7 fire control system tie-in; and field exercises.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (6/74); in the upper-division baccalaureate/associate degree category, 1 semester hour in electrical or electronics laboratory (6/74).

AF-1715-0689

WEAPONS CONTROL SYSTEMS MECHANIC (E-9, MG-12 SYSTEMS)

Course Number: AL32231E.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 23 weeks (690 hours).
Exhibit Dates: 3/58-9/60.

Objectives: To train personnel as weapons control systems mechanics for the E-9 and MG-12 systems.

Instruction: Lectures and practical exercises in weapons control systems repair, including fundamentals of electricity; fundamentals of DC and AC; vacuum tubes and power supplies; amplifiers, oscillators and synchronous generators; radar principles; servomechanism principles; introduction to channel B; service function; intelligence gathering; antenna positioning; computer; optics and self-tests; fighter missile system; system tie-in; reactive circuits; special circuits; microwave operation; timing and firing function; attack steering function; attack display function; optical steering and tracking; field exercises; and system troubleshooting.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (6/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics and mathematics (12/68); in the upper-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory (6/74).

AF-1715-0690

MISSILE GUIDANCE AND CONTROL TECHNICIAN (AGM/AIM TAC SEA)

Course Number: 3ASR1671L.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 6-11 weeks (19-312 hours).
Exhibit Dates: 8/68-12/73.

Objectives: To train airmen as missile guidance and control technicians.

Instruction: Lectures and practical exercises in missile guidance and control systems, including air-intercept and air-to-ground missile characteristics, armament, propulsion, power supply, and block-diagram analysis; aerospace ground equipment handling; corrosion control; assembly and disassembly; test sets and troubleshooting procedures; and guidance and control systems familiarization.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electrical and electronics laboratory (6/74).
AF-1715-0692  
1. MISSILE LAUNCH OFFICER, LGM-25  
2. MISSILE LAUNCH/MISSILE OFFICER  
(LGM-25)  

Course Number: Version 1: 3OBR3121F;  
Version 2: 3OBR3121F; OBR3121F;  

Location: 375th Technical School,  
Sheppard AFB, TX.  

Length: Version 1: 1/17-12/73.  
Version 2: 9/16-12/70.  

Objectives: To train officers in Titan II missile systems support.  

Introduction: All Versions: Lectures and practical exercises in Titan II missile systems support, including ballistic missile theory, weapon system familiarization, electronic principles (DC, AC, components theory), inertial guidance principles, guidance systems, propulsion, flight control and hydraulic systems, systems integration, launch control operation and troubleshooting, facility pneumatics and associated equipment, various missile subsystems, and power generation and distribution. Version 1: Includes communications system and components.  

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in electronic laboratory (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical laboratory (6/74); in the upper-division baccalaureate category, 2 semester hours in electrical laboratory (6/74).  

AF-1715-0693  
MISSILE MECHANIC (AGM-28A/B)  
(MISSILE MECHANIC (AGM-77))  

Course Number: 3ABR4433Q;  
ABR4433O-1; ABR4433Z-1;  

Location: 3345th Technical School,  
Château AFB, IL.  

Length: 16-23 weeks (510-600-hours).  

Exhibit Dates: 4/61-12/73.  

Objectives: To train enlisted person to maintain the AGM 28A/B missile.  

Instruction: Lectures and practical exercises in the maintenance of the AGM 28A/B missile, including missile mechanics, electrical and electronic fundamentals, maintenance management, missile hydraulic systems, fundamentals of jet propulsion, and planned inspections.  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, 2 in hydraulics, and 2 as an elective in vocational/technical programs (7/74); in the upper-division baccalaureate category, 3 semester hours in electronics, 2 in hydraulics, and 2 as an elective in vocational/technical programs (7/74).  

AF-1715-0694  
TOW REEL SPECIALIST  

Course Number: AB43132.  

Location: 375th Technical School,  
Sheppard AFB, TX.  

Length: 8 weeks (240 hours).  

Exhibit Dates: 9/55-12/68.  

Objectives: To train basic airmen to maintain and repair tow reels.  

Instruction: Lectures and practical exercises in maintenance and repair of tow reels, including electrical and hydraulic systems; operation, inspection, and maintenance of related equipment; component part identification; and troubleshooting procedures.  

Credit Recommendation: in the lower-division baccalaureate/associate degree category, 1 semester hour in hydraulics laboratory, 1 in electronics laboratory (7/74).  

AF-1715-0695  
WEAPONS MECHANIC (GAM-72)  

Course Number: ABR46230A;  
AZR46230.  

Location: 3320th Technical School,  
Amarillo AFB, TX.  

Length: 4-5 weeks (120-150 hours).  

Exhibit Dates: 1/60-12/68.  

Objectives: To train airmen as weapons mechanics on GAM-72 missiles.  

Instruction: Lectures and practical exercises in GAM-72 missile systems, including missile familiarization; maintenance inspection, procedures, and equipment; ground support equipment; and vacuum and flight control surfaces; missile electrical system; carrier electrical system; launch gear function, arrangement, assembly and disassembly; and missile loading procedures.  

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

AF-1715-0696  
GROUND COMMUNICATIONS EQUIPMENT REPAIRMAN (LIGHT)  

Course Number: ABR3043Z.  

Location: 3380th Technical School,  
Keesler AFB, MS.  

Length: Version 1: 32 weeks (870 hours).  
Version 2: 38 weeks (1050 hours).  

Exhibit Dates: 1/60-12/68.  

Objectives: To train enlisted personnel to operate, adjust, maintain, and repair low-power ground communications equipment.  

Instruction: Lectures and practical exercises in electronic principles, circuit analysis, UHF and HF transmitters and receivers, radio telemetry, direction finding, TV systems and associated test equipment, vacuum tube and transistor principles, multi-channel transceivers, and communications systems. Instruction is descriptive rather than analytical.  

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 4 semester hours in electronics, and credit in electrical laboratory on the basis of institutional evaluation (12/68).  

AF-1715-0697  
MISSILE MAINTENANCE MECHANIC/TECHNICIAN (SM-68)  

Course Number: ATS43350-4;  
ATC43350-6.  

Location: 375th Technical School,  
Shippard AFB, TX.  

Length: 14 weeks (420 hours).  

Exhibit Dates: 11/60-12/68.  

Objectives: To train enlisted personnel as missile maintenance mechanics or technicians.  

Instruction: Lectures and practical exercises in the inspection and maintenance of a missile launch complex, including weapon system familiarization; launch silo system, propellant loading and pressurization system, launch and missile systems operation, missile handling and transportation, and fuel, electrical, hydraulic, and engine systems.  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in vocational or technical programs (7/74).  

AF-1715-0698  
EMU-12/E GENERATOR SET  
(EMU/12E and "AN/MRC-107 GENERATOR SETS")  

Course Number: 3AZR42153.  

Location: School of Applied Aerospace Sciences, Chanute AFB, IL.  

Length: Version 1: 32 weeks (1050 hours).  

Objectives: To train airmen as weapons mechanics on GAM-72 missiles.  

Instruction: Lectures and practical exercises in GAM-72 missile systems, including missile familiarization; maintenance inspection, procedures, and equipment; ground support equipment; and vacuum and flight control surfaces; missile electrical system; carrier electrical system; launch gear function, arrangement, assembly and disassembly; and missile loading procedures.  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in vocational or technical programs (7/74).  

AF-1715-0699  
WEAPONS CONTROL SYSTEMS TECHNICIAN  
(MG-13 DATA FLOW)  

Course Number: AAR32271F-2.  

Location: 3415th Technical School,  
Lowry AFB, CO.  

Length: 29 weeks (870 hours).  

Exhibit Dates: 11/58-12/68.  

Objectives: To train enlisted personnel to troubleshoot and repair EMU-12/E generator sets.  

Instruction: Lectures and practical exercises in the troubleshooting and repair of EMU-12/E generator sets, including function and operation of gas turbine engines, engine control devices, engine fuel systems, engine electrical systems, solid-state devices, protective package monitors, control package monitors, and maintenance procedures.  

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours as an elective in vocational programs (7/74).
AF-1715-0700

NUCLEAR WEAPONS TECHNICIAN (AGM-69A)

Course Number: 3AQR46370.
Location: School of Applied Aerospace Sciences, Lowry AFB, CO. 3415th Technical School, Lowry AFB, CO.

Length: 7-9 weeks (250-270 hours).
Exhibit Dates: 7/69-12/69.

Objectives: To train airmen to inspect, maintain, repair, and modify the AGM-69A weapon system and related components and test equipment.

Instruction: Lectures and practical exercises in the inspection, assembly, maintenance, repair, and modification of the AGM-69A weapon system and related components and test equipment, including, launchers, maintenance, repair, and modification of the AGM-69A weapon system and related components and test equipment, including, launchers, maintenance, repair, and modification of the AGM-69A weapon system and related components and test equipment, including.

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

AF-1715-0701

ELECTRONIC DIGITAL DATA PROCESSING EQUIPMENT REPAIRMAN (BALLISTIC MISSILE GUIDANCE COMPUTER) (SM-65D)

Course Number: 3ABR30531E-1.
Location: 3380th Technical School, Keesler AFB, MS.

Length: 13 weeks (390 hours).
Exhibit Dates: 9/68-12/68.

Objectives: To train enlisted personnel to operate, maintain, and repair ground guidance systems, including digital computer and specialized computer test equipment.

Instruction: Lectures and practical exercises in the AN/GSQ-33 ground guidance digital computer and specialized computer test equipment.

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

AF-1715-0702

PRINTER SYSTEMS OPERATOR, PREPARATORY

Course Number: 3AQR29222-1.
Location: 3345th Technical School, Chanute AFB, KS.

Length: 8 weeks (220 hours).
Exhibit Dates: 6/70-12/70.

Objectives: To train airmen in prerequisite areas for entry into printer systems operator courses.

Instruction: Lectures and practical exercises in prerequisite areas for printer systems operator courses, including typing, transcription of international Morse code, basic electronic principles, radio receiver operation, tape recorders, direction finding and antennas and wave propagation, and transmitters and types of transmission.

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

AF-1715-0703

AVIONICS INSTRUMENT SYSTEMS TECHNICIAN

Course Number: 3AAAR32571.
Location: 3345th Technical School, Chanute AFB, IL.

Length: 13 weeks (390 hours).
Exhibit Dates: 9/68-12/73.

Objectives: To train airmen to operate, maintain, and repair electronic and computer equipment.

Instruction: To train airmen to operate, maintain, and repair electronic and computer equipment.

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

AF-1715-0704

CAMERA REPAIRMAN

Course Number: 3ABR34230.
Location: 3345th Technical School, Chanute AFB, IL.

Length: 18 weeks (510 hours).
Exhibit Dates: 9/68-12/73.

Objectives: To train airmen to operate, maintain, and repair cameras.

Instruction: To train airmen to operate, maintain, and repair cameras.

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

AF-1715-0705

GROUND RADIO REPAIRMAN

Course Number: 3ABR34230.
Location: 3345th Technical School, Chanute AFB, IL.

Length: 15 weeks (450 hours).
Exhibit Dates: 9/68-12/68.

Objectives: To train airmen to operate, maintain, and repair ground radio and related navigational equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of ground radio and related navigational equipment, including basic radio equipment, electronic equipment, and radio (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical engineering; and radio (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical engineering.

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

AF-1715-0706

1. FLIGHT SIMULATOR SPECIALIST
2. FLIGHT SIMULATOR SPECIALIST
3. FLIGHT SIMULATOR SPECIALIST
4. FLIGHT SIMULATOR SPECIALIST
5. FLIGHT SIMULATOR SPECIALIST

Course Number: 3ABR34230.
Location: 3345th Technical School, Chanute AFB, IL.

Length: 17 weeks (470 hours).
Exhibit Dates: 9/68-12/68.

Objectives: To train airman to operate, maintain, and repair flight simulators.

Instruction: All Versions: Lectures and practical exercises in the operation, maintenance, and repair of flight simulators, including AC and DC equipment, equipment, and flight simulator specialists.

Credit Recommendation: No credit because of the military nature of the course (7/74).
and DC circuits, electron tubes, servosystems, power supplies, amplifiers and oscillators; principles and applications of dynamics; radio procedures; navigationsystems; trouble shooting procedures, and flight simulators; instruction in computer components and test equipment. Version 1: includes missile systems fundamentals, electrical inspection, and maintenance; vacuum tube and transistor circuits; basic digital computers; missile airborne motor operation and check-out, generator controls (fly controllers and two systems, radio guidance principles, and inertial guidance); motors and synchronous components; digital computer mathematics and logic devices, Boolean algebra, input/output devices, programming principles, general purpose computer, and radar closed-circuit TV principles and applications to flight simulators. Version 2: includes diodes and transistor circuits, resonance, introduction to magnetism, motors and synchro devices, blocking oscillators, AM, FM, transmission lines and antennas, transmitters, wave-guides, cavity resonators, AM and FM wave equipment, digital techniques; binary and octal numbers; logic functions; Boolean algebra; logic diagrams; circuits; counters and storage devices; synchro-principles; input/output devices; jet engine computer theory; velocities, rates, and angles; maintenance management; and radar and closed-circuit TV principles and applications to flight simulators. Version 3: includes resonance, introduction to magnetism, motors and synchro devices, blocking oscillators, AM, FM, transmission lines and antennas, transmitters, wave-guides, cavity resonators, UHF and microwave equipment, digital computer mathematics (rate and functions), digital computer logic and circuit diagrams; maintenance management; and radar and closed-circuit TV principles and applications to flight simulators. Version 4: includes motors and generators, special-purpose tubes, and computer circuitry. Version 5: includes special circuits, synchron, and magnetism.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in aircraft electrical engineering (7/74), 2 in electronics (7/74), 3 in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory (7/74). Version 2: 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 electrical laboratory (7/74).

AF-1715-0707 AIRCREEK: EGRESS SYSTEMS REPAIRMAN

Course Number: ABR42232-1, 3ABR42232-1.


Length: 9-12 weeks (270-360 hours).

Exhibit Dates: 8/63-Present.

Objectives: To train technicians to operate and maintain emergency ejection systems.

Instruction: Lectures and practical exercises in emergency ejection systems operation and maintenance, including electricity, pneumatics, hydraulics, and repair procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in mechanical laboratory (7/74).

AF-1715-0708 FIRE CONTROL SYSTEMS MECHANIC (MG-10 SERIES DATA FLOW SPECIALIST)

Course Number: ABR23231.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 36 weeks (1080 hours).

Exhibit Dates: 1/71-12/73.

Objectives: To train airmen to perform data flow system analysis, and to align, adjust, and troubleshoot the MG-10 fire control system.

Instruction: Lectures and practical exercises in data flow system analysis and the alignment, adjustment, and troubleshooting of the MG-10 fire control system, including digital and solid-state techniques, automatic typer sequences, and computer loop and system tie-in.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity and electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory for technical students (7/74).

AF-1715-0709 AIRBORNE COMMAND POST COMMUNICATIONS EQUIPMENT (CE) REPAIRMAN

Course Number: 3ALR32850A-1, 3ALR330150A-1.

Location: School of Applied Aerospace Sciences, Keesler AFB, MS. 3390th Technical School, Keesler AFB, MS.

Length: 23-24 weeks (690-720 hours).

Exhibit Dates: 9/70-12/73.

Objectives: To train airmen to maintain airborne command post communications equipment.

Instruction: Lectures and practical exercises in the maintenance of airborne command post communications equipment, including digital and solid-state techniques, Boolean algebra, UHF radio system analysis, computer systems, feedback circuits, and digital techniques, switchboard analysis CSA and APM, SATCOM system analysis, and specific transmit and receive systems equipment analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in UHF communications laboratory (7/74); in the upper-division baccalaureate category, 1 semester hour in electrical or electronics laboratory (7/74).

AF-1715-0710 INTERMEDIATE/ORGANIZATIONAL (I/O) MAINTENANCE M-28 ASR LOW LEVEL KEYING

Course Number: 3AZR36530-4.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 4 weeks (108 hours).

Exhibit Dates: 6/72-12/73.

Objectives: To train airmen to perform input/output maintenance on the M-28 ASR data processing device, including operation of test and repair procedures.

Instruction: Lectures and practical exercises in input/output maintenance on the M-28 ASR data processing device, including operation of test and repair procedures.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0711 MISSILE ELECTRONIC EQUIPMENT SPECIALIST, WS-133A-M

Course Number: 3ABR31632-1.

Location: School of Applied Aerospace Sciences, Chanute AFB, IL. 3345th Technical School, Chanute AFB, IL.

Length: 34-38 weeks (1020-1307 hours).


Objectives: To train airmen as missile electronic equipment specialists.

Instruction: Lectures and practical exercises in the operation, maintenance, and repair of missile electronic launch equipment and in electronic principles, including AC and DC circuits, resonance, introduction to magnetism, motors and synchronous machines, wave guides, cavity resonators, UHF and microwave oscillators and amplifiers; electrical test equipment; and transistor circuits, digital techniques, binary and octal numbers, logic functions, truth tables, Boolean algebra, logic diagrams, circuits, counters, and digital techniques, switchboard analysis CSA and APM, SATCOM system analysis, specific transmit and receive systems equipment analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in UHF communications laboratory (7/74); in the upper-division baccalaureate category, 1 semester hour in electrical or electronics laboratory (7/74).
AF-1715-0712

MISSILE GUIDANCE AND CONTROL SPECIALIST (AGM/AIM)/TAC


Location: 3415th Technical School, Lowry AFB, CO.


Objectives: To train technicians to operate, maintain, and repair AGM/AIM TAC guided missile systems.

Instruction: Lectures and practical exercises in electronic principles, including AC and DC fundamentals, tubes, transistors, power supplies, regulation, amplifiers, oscillators, wave-shaping circuits, AM and FM, single sideband, transmission lines and antennae, servomechanisms, cavity resonators, hand tools operation, multimeters, oscilloscopes, and microwave principles; guided missile systems operation; maintenance, and repair, including components, block diagram analysis, and troubleshooting techniques.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 10 semester hours in electronics and additional credit in electronics on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 7 semester hours in electronics and additional credit in electronics on the basis of institutional evaluation (7/74); in the lower-division baccalaureate/associate degree category, 11 semester hours in electronics and additional credit in electronics on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 6 semester hours in electronics and additional credit in electronics on the basis of institutional evaluation (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics, 2 in electronics laboratory (7/74); in the upper-division baccalaureate category, 2 semester hours in electricity or electronics, 1 in electrical laboratory, 1 as a technical elective for non-engineering majors, and additional credit in electronics on the basis of institutional evaluation (7/74). Version 3: In the lower-division baccalaureate/associate degree category, 11 semester hours in electronics and additional credit in electronics on the basis of institutional evaluation (7/74); in the upper-division baccalaureate category, 7 semester hours in electronics and additional credit in electronics on the basis of institutional evaluation (7/74).

Location: 3750th Technical School, Sheppard AFB, TX.


Objectives: To train airmen as missile control communications systems repairmen or as telephone switching equipment specialists.

Instruction: All Versions: Lectures and practical exercises in electronic principles and the repair of missile control communications systems or telephone switching equipment, including DC and AC circuits, wave-analysis techniques, principles of vacuum tubes, transistors, multiplexers, logic circuits, digital logic and circuits, and circuit testing equipment and maintenance techniques. Version 1: Includes computer principles, airborne power supplies and controllers, missile systems principles; soldering equipment, test equipment, and maintenance, data logger time and frequency equipment, and maintenance and troubleshooting techniques. Version 2: Includes computer principles, airborne power supplies and controllers, missile systems principles; soldering equipment, test equipment, and maintenance, data logger time and frequency equipment, and maintenance and troubleshooting techniques. Version 3: Includes switching center principles, cable procedures, switchboard circuitry, ground telephone systems, and maintenance, Atlas switching equipment, and Atlas and Titan launch system equipment analysis.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 5 semester hours in electricity or electronics, 3 in electronics laboratory (7/74); in the upper-division baccalaureate category, 4 semester hours in electricity or electronics, 2 in electrical laboratory, 1 as a technical elective for non-engineering majors, and additional credit in electronics laboratory on the basis of institutional evaluation (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in electricity or electronics, 1 in electrical laboratory, 1 as a technical elective for non-engineering majors, and additional credit in electronics laboratory of the basis of institutional evaluation (7/74). Version 3: 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 in electricity or electronics (12/68); in the lower-division baccalaureate/associate degree category, 1 semester hour in electrical laboratory, 1 as a technical elective for non-engineering majors, and additional credit in electronics laboratory on the basis of institutional evaluation (7/74). Version 3: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity or electronics (12/68); in the upper-division baccalaureate category, 1 semester hour in electrical laboratory, 1 as a technical elective for non-engineering majors (7/74).

AF-1715-0713

1. MISSILE CONTROL COMMUNICATIONS SYSTEMS REPAIRMAN
2. MISSILE CONTROL COMMUNICATIONS SYSTEMS REPAIRMAN
3. TELEPHONE SWITCHING EQUIPMENT SPECIALIST (COMBAT OPERATIONS SUPPORT)


Location: School of Applied Aerospace Sciences, Chanute AFB, IL.

Length: Version 1: 5 weeks (253 hours). Exhibit Dates: 9/73-12/73.

Objectives: To train technicians to maintain and repair missile support equipment.

Instruction: Lectures and practical exercises in the repair and maintenance of missile support equipment. Course includes circuit and block diagram analysis of electronic equipment, troubleshooting procedures, and alignment techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (7/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory as an elective for non-engineering students (7/74).

AF-1715-0714

MISSILE ELECTRONIC EQUIPMENT TECHNICIAN, MISSILE OPERATIONS (AS-133/CDB)


Location: School of Applied Aerospace Sciences, Chanute AFB, IL.


Objectives: To train technicians to perform maintenance on F-111 indicators and modules test equipment.

Instruction: Lectures and practical exercises in the repair and maintenance of missile support equipment. Course includes circuit and block diagram analysis of electronic equipment, troubleshooting procedures, and alignment techniques.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in electronics laboratory (7/74); in the upper-division baccalaureate category, 1 semester hour in electronics laboratory as an elective for non-engineering students (7/74).
AF-1715-0719

INSTRUCTIONAL MECHANIC


Objectives: To train enlisted personnel in the installation, operation, maintenance, troubleshooting, and repair of time- and frequency multiplexing and demultiplexing systems and digital data-acquisition equipment.

Instruction: All Versions: Lectures and practical exercises in electronics fundamentals and the calibration, maintenance, troubleshooting, and repair of time- and frequency multiplexing and demultiplexing systems and digital data-acquisition equipment, including AC and DC fundamentals, modulation systems, vacuum tubes and transistors, and amplifiers; frequency- and time-multiplexing components; airborne data-acquisition set components; airborne and ground digital data systems; signal conditioning and time- and frequency-multiplexing telemetric systems; spectrum analysis; digital, oscillographic, and magnetic tape recording, video recording, closed-circuit television procedures and equipment; and special test equipment.

Version 1: Includes power supplies, oscillators, wave-shaping circuits, semiconductors, computer principles (analog and digital), multivibrators, system analysis procedures, principles of radar, infrared and laser, balanced modulation, physics, transducers, signal conditioners, transmitters, receivers, and antennas; binary numbers, logarithms, and digital, analog, and nuclear data systems; calculus, comb armament, and reconnaissance operations; countermeasures and nuclear weapon systems; and computer principles (analog and digital).

AF-1715-0720

SENIOR OBSERVER/TECHNICAL SPECIALIST

Course Number: 150005; 150005-1. Location: 4144th Technical Command, Mathis AFB, CA. Length: 40-48 weeks (1280-1536 hours).

Exhibit Dates: 2/55-12/68.

Objectives: To provide officers with advanced technical training in policy matters, observer techniques, and developmental requirements.

Instruction: Lectures and practical exercises in technical subjects, including algebra; electrotechnics; and mathematics; electronics; trigonometry; communications systems; analytical geometry; generators and servomechanisms; aerodynamics; cartography; computer programming, solid-state computer systems; calculus; bomb armament, and reconnaissance operations; countermeasures and nuclear weapon systems.

Credit Recommendation: Credit recommendation: Version 1: in the lower-division baccalaureate/associate degree category, 5 semester hours in electricity, electronics, and additional credit in electronics on the basis of institutional evaluation (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electronics, 1 in electrical or electronics laboratory (7/74); in the upper-division baccalaureate/associate degree category, 7 semester hours in electricity or electronics, 1 in electrical or electronics laboratory (7/74); in the lower-division baccalaureate/associate degree category, 7 semester hours in electricity or electronics, 1 in electrical or electronics laboratory (7/74); in the upper-division baccalaureate/associate degree category, 16 semester hours in electronics, 1 in electrical or electronics laboratory (7/74); in the upper-division baccalaureate/associate degree category, 24 semester hours in electronics, 1 in electrical or electronics laboratory (7/74); in the upper-division baccalaureate/associate degree category, 30 semester hours in electronics, 1 in electrical or electronics laboratory (7/74);

AF-1715-0721

1. WEAPONS CONTROLLER (ECCM OPERATIONS OFFICER/ELECTRONIC WARFARE COUNTERMEASURES SPECIALIST)

(WEAPONS CONTROLLER (ECCM OPERATIONS OFFICER))

2. WEAPONS CONTROLLER (ECCM OPERATIONS OFFICER)

Course Number: Version 1: 3ALR27631. Version 2: 30LR1741D. Location: 3380th Technical School, Keesler AFB, MS.


Objectives: To train personnel as weapons controllers.

Instruction: All Versions: Lectures and practical exercises in electronic principles, theory, and functional and duties of an ECM operations officer. Version 1: Topics include basic application of electronic principles, description and principles of electronic circuitry included in typical current radars, data processing and data transmission equipment, comprehensive theory of electronic countermeasures and counter-countermeasures, circuits used to effect ECM and ECCM, duties of Radar Inputs and Countermeasures Officer position, and practical applications of ECCM equipment in a simulated ECM environment. Version 2: Topics include development of electronic principles and applications to electronic equipment, technical publications, functional block diagrams, including operational adjustments of modern AC & W radar equipment, principles of data processing equipment, equipment identification and jamming and the use, application, and operation of appropriate ECCM devices available to counteract the effects of undesirable signals.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics, and additional credit in electrical laboratory on the basis of institutional evaluation (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical or electronics laboratory on the basis of institutional evaluation (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical or electronics laboratory (12/68); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical or electronics laboratory (12/68); in the upper-division baccalaureate/associate degree category, 3 semester hours in electrical or electronics laboratory (12/68).

AF-1715-0722

1. COMPUTER MAINTENANCE OFFICER (ELECTRONIC COMPUTER MAINTENANCE OFFICER)

2. ELECTRONIC COMPUTER MAINTENANCE OFFICER


Objectives: To train computer maintenance personnel in computer systems maintenance programming and functional analysis.

Instruction: All Versions: Lectures and practical exercises in introductory computer programming, solid-state computer system electrical and mechanical components analysis, central processor logic analysis and maintenance programming, and communications security. Version 2: Instruction emphasizes vacuum tube electronics.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in computer principles, 4 in basic electronics (6/
AF-1715-0724

1.  MISSILE MECHANIC (LG-M-25)
2.  MISSILE MECHANIC (LG-M-25C)
    (MISSILE MECHANIC (SM-68B))

   Location: 3350th Technical School.


   Objectives: To train enlisted personnel as missile mechanics.

   Instruction: All Versions: Lectures and practical exercises in missile repair, including
   weapon system familiarization; launch complex and facility systems; missile-handling
   equipment; missile installation and removal; operation, function, and maintenance of missile systems.
   Version 1: Topics include principles of mechanics; fundamentals of AC and DC; motors, generators,
   and fault analysis; electronics and rocket engines; mass spectrometer function, operation, and maintenance.
   Technical orders and maintenance system; missile components; and propulsion system, maintenance equipment, and maintenance.

   Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in physics (mechanics), and 3 in electricity (7/74); in the upper-division baccalaureate category, mechanics (electronics) on the basis of institutional evaluation (7/74). Version 2: No credit because of the military nature of the course (7/74).

AF-1715-0725

MISSILE LAUNCH EQUIPMENT REPAIRMAN, 
(WS-133B)

(BALLISTIC MISSILE LAUNCH EQUIPMENT REPAIRMAN, WS-133B)

   Course Number: ABR31430H; ABR31736G-1
   Location: 3345th Technical School, Chanute AFB, IL.
   Length: 34-35 weeks (930-960 hours).
   Exhibit Dates: 3/65-12/68.

   Objectives: To train airmen as ballistic missile launch equipment repairmen (WS-133B).

   Instruction: Lectures and practical exercises in missile launch equipment, including electronic principles, system familiarization, maintenance, ground equipment test sets, message-processing control group, terminal digital data system, and signal data converter set.

   Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electronics (12/68).

AF-1715-0726

1.  MISSILE MECHANIC (CGM-13B, MMC)
2.  MISSILE MECHANIC (CGM-13B)
    (MISSILE MECHANIC (MACE, MGM-13C))
3.  MISSILE MECHANIC (MACE, MGM-13C)
    (MISSILE MECHANIC TACTICAL (TM-166B))

   Location: 3415th Technical School, Lowry AFB, CO.

   Exhibit Dates: Version 1: 9/66-12/73.

   Objectives: To train enlisted personnel to assist in handling, transporting, assembling, disassembling, servicing, inspecting, and aligning of CGM-13C missiles.

   Instruction: All Versions: Lectures and practical exercises in the handling, transporting, assembly, disassembly, servicing, inspection, and alignment of CGM-13C missiles. Version 1: Course includes weapon systems, Basic Electricity I and II, aerodynamics and propulsion, basic hydraulics, missile systems and handling, and tractor and trailer operations. Version 2: Course includes Basic Electricity I, basic physics, dropped-tractor and trailer operations. Version 2: Course includes Basic Physics II and Basic Electricity IV.

   Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity, 2 in hydraulics, and 2 as an elective in vocational/technical programs (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity, 2 in hydraulics, 2 in physics, and 2 as an elective in vocational/technical programs (7/74).

AF-1715-0728

HIGH RELIABILITY SOLDERING AND CONNECTIONS

   Course Number: 3AZR30000-1.
   Location: 3380th Technical School, Keesler AFB, MS.
   Length: 2 weeks (60 hours).

   Exhibit Dates: 12/71-12/73.

   Objectives: To train maintenance personnel to perform high-reliability soldering on components and mechanical circuits and on the various terminals used in modern electronic equipment.

   Instruction: Lectures and practical exercises in high-reliability soldering and connections, including high-reliability soldering, soldering terminals; printed circuit board soldering; removal of coatings and potting compounds; component removal and replacement, board repair and recoating.

   Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1715-0729

MISSILE MECHANIC, WS-133A/A-M
    (MISSILE MECHANIC, WS-133A)
    (MISSILE MECHANIC, SM-80)

   Course Number: 3ABR44330G.
   Location: 3345th Technical School, Chanute AFB, IL.
   Length: 15-19 weeks (420-546 hours).
   Exhibit Dates: 1/62-12/73.

   Objectives: To train enlisted personnel to maintain in WS-133A/A-M missile systems.

   Instruction: Lectures and practical exercises in WS-133 A/A-M missile systems maintenance, including electrical fundamentals, missile familiarity, launch facility support systems, and missile-handling and transporting equipment.

   Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electricity and electrical laboratory (4/74).

AF-1715-0730

MISSILE MECHANIC, WS-133A/A-M

   Course Number: 3ALR44330G-3.
   Location: 3345th Technical School, Chanute AFB, IL.
   Length: 1-12 weeks (342-354 hours).
   Exhibit Dates: 9/65-12/73.
COURSE EXHIBITS

1-218

AF-1715-0731

1. MISSILE SYSTEMS ANALYST SPECIALIST, WS-133B

Objectives: To train enlisted personnel to maintain WS-133A/A-M missile systems.

Instruction: Lectures and practical exercises in WS-133A/A-M missile systems maintenance, including electrical fundamentals, missile familiarization, launch facility support systems, and missile handling and transporting equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 12 semester hours in electrical and electronic laboratory (4/74).

AF-1715-0732

MISSILE SYSTEMS ANALYST SPECIALIST, WS-133B

Objectives: To train enlisted personnel to operate, inspect, and maintain missile systems.

Instruction: Lectures and practical exercises in basic electronics, including AC and DC circuits, resonant introduction to magnetism, AC and DC motors, and synchronous motor theory, power supplies, regulators, multivibrators, blocking oscillators, AM modulation and demodulation, transmission lines, antennas, transmitters, wave-guides, cavity resonators, UHF and microwave oscillators and amplifiers, and use of the oscilloscope in circuit measurement; missile system maintenance, including launch control and power systems, launch environmental control system, UHF and medium-frequency radio subsystems, missile guidance and control systems, interconnecting control cables, test methods, inspection, troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 14 semester hours in electricity and electronics, and credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0733

AN/GPS-T4 FIELD AND ORGANIZATIONAL (F & O) MAINTENANCE

Objectives: To train enlisted personnel to operate, maintain, and repair a radar signal simulator.

Instruction: Lectures and practical exercises in the maintenance, repair, and operation of a radar signal simulator. Course includes familiarization and function of assemblies and components, inspection, testing, alignment, and calibration.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, credit in electrical laboratory on the basis of institutional evaluation (3/74).

AF-1715-0734

TEMPEST FOR SYSTEMS DESIGN ENGINEER

Objectives: To train communication systems engineers to design and engineer communications systems in accordance with TEMPEST directives.

Instruction: Lectures on communication security, communications center layout, distribution frames and patching facilities, power requirements, grounding systems, and a simulated TEMPEST site survey.

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

AF-1715-0735

WEAPONS MAINTENANCE TECHNICIAN (AGM-65/A)

Objectives: To train personnel as missile maintenance technicians.

Instruction: Lectures and practical exercises in internal and external missile systems: pylons and bomb racks; test equipment; troubleshooting; maintenance, repair, and replacement of components; handling and bombing procedures.

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

AF-1715-0736

NUCLEAR WEAPONS MECHANICAL SPECIALIST

Objectives: To train airmen to perform the duties of apprentice nuclear weapons mechanical specialists.

Instruction: Courses covers the use of test and precision measuring equipment, identification of weapons components, disassembly and assembly of equipment, cleaning and testing, replacement and repair, storage, and inspection, and packing and shipping.

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

AF-1715-0737

AIR TRAFFIC CONTROL RADAR REPAIRMAN (AN/TNP-12)

Objectives: To train airmen to operate, maintain, and repair a specific air traffic control radar set.

Instruction: Lectures and practical exercises in the maintenance, installation, and repair of air traffic control radar AN/TNP-12, including circuit analysis, testing, alignment, troubleshooting, and analysis and use of associated test equipment. Course is highly equipment-oriented.

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

AF-1715-0738

GROUND RADIO COMMUNICATIONS EQUIPMENT REPAIRMAN (AN/FRT-49, AN/GKA-5)

Objectives: To train personnel in the operation and maintenance of the AN/FRT-49 and AN/GKA-5 ground radio equipment.

Instruction: Lectures and practical exercises in fundamentals; multiplexer, simulator, control, and system maintenance; and the AN/FRT-49 power amplifier.

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

Course Number: 3AZR58230.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS.
Length: 4 weeks (120 hours).
Objectives: To train airmen to obtain measurements of radio frequency interference and radiation hazards.
Instruction: Lectures and practical exercises to include radio frequency interference and radiation hazards; calculations; noise and field measurement techniques.
Exhibit Dates: 8/58-12/73.
Credit Recommendation: Pre-requisite: Mathematics 120 and 121.

AF-1716-0002
FABRIC AND LEATHER WORKER
Course Number: AB58313.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 16 weeks (450 hours).
Exhibit Dates: 6/55-12/68.
Objectives: To train enlisted personnel as apprentice fabric and leather workers.
Instruction: Lectures and practical exercises in fabric and leather repair. Course includes fundamentals; inspection, repair, and fabrication of protective covers and flight-line equipment; inspection, repair, and fabrication of airplane upholstery; inspection, repair, and alteration of flight clothing and aircrew protective and survival equipment; and fabrication, installation, and doping of fabric covers on airplane surfaces.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1716-0003
MAINTENANCE OF SURVIVAL AND AIRCREW PROTECTIVE EQUIPMENT (FABRIC, LEATHER, AND RUBBER)
(MAINTENANCE OF SURVIVAL AND AIRCREW PROTECTIVE EQUIPMENT (FABRIC, LEATHER, AND RUBBER))
Course Number: ATSS8250-6; ATSS8250-4.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3-4 weeks (90-120 hours).
Exhibit Dates: 8/58-12/68.
Objectives: To train enlisted personnel to inspect and maintain fabric, leather, and rubber aircrew protective clothing and survival equipment.
Instruction: Lectures and practical exercises in the inspection, maintenance, inspection, repair, and alteration of flying and aircrew protective clothing and survival equipment; covering and doping of aircraft control surfaces; repair and fabrication of protective covers for ground support equipment; repair of life preservers and rafts; and practical work with leather.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1716-0004
LAUNDRY MACHINE OPERATOR
Course Number: AB64430.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (160 hours).
Exhibit Dates: 3/55-12/68.
Objectives: To train enlisted personnel to operate and maintain power-driven laundry machines.
Instruction: Lectures and practical exercises in the operation and maintenance of power-driven laundry machines. Course includes receiving, marking, and washing; pressing operations; sorting and shipping; and control circuits analysis.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1717-0001
PROPULSION SHOP MANAGEMENT
Course Number: Version 1: 3AZR43270.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL; 3345th Technical School, Chanute AFB, IL.
Length: Version 1: 3-4 weeks (114-144 hours); Version 2: 3-4 weeks (114 hours).
Exhibit Dates: Version 1: 7/68-12/73.
Objectives: To train enlisted personnel to manage a propulsion shop.
Instruction: Lectures and practical exercises in forecasting, product selection, and process planning, material control and management, scheduling and loading, dispatching, progress reporting, and corrective actions.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 2 semester hours in shop management (2/74). Version 2: In the lower-division baccalaureate/associate degree category, 2 semester hours in shop management (2/74); in the upper-division baccalaureate degree category, 2 semester hours in shop management (12/68).
AF-1717-0003

COURSE EXHIBITS

AIRCRAFT MAINTENANCE OFFICER


Objectives: To provide officers with training in aircraft maintenance procedures and management.

Instruction: All Versions: Lectures and practical experience in aircraft maintenance and management, including aircraft systems, components, and equipment familiarization; management and supervision; oral and written communications skills; human relations; and aircraft maintenance officer organizational and administrative duties. Version 2: Theory of flight; management principles. Version 3: Theory of flight; management principles. Version 4: Theory of flight; management principles.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft maintenance management (3/74); in the upper-division baccalaureate category, 5 semester hours in business organization and management and additional credit in business organization and management on the basis of institutional evaluation (3/74). Version 2: In the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft maintenance management (3/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management, 2 in personnel management (12/68). Version 3: In the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft maintenance management (3/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management, 2 in personnel management (12/68). Version 4: In the lower-division baccalaureate/associate degree category, 4 semester hours in aircraft maintenance management (3/74); in the upper-division baccalaureate category, 6 semester hours in business organization and management and additional credit in business organization and management and additional credit in business organization and management on the basis of institutional evaluation (12/68).

AF-1717-0004

AIRCRAFT MAINTENANCE/AVIONICS OFFICER

Course Number: 30BR4021; 30BR4041; 30BR4041-1.

Location: School of Applied Aerospace Science, Chanute AFB, IL.

Length: 6 weeks (168-222 hours).

Exhibit Dates: 8/72-12/73.

Objectives: To train officers in aircraft maintenance and avionics maintenance management.

Instruction: Lectures and practical exercises in the principles and concepts of maintenance management; personnel relations; maintenance organizations; planning and scheduling; manpower utilization and control; analysis; corrective and preventive maintenance; associated systems and material functions.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management on the basis of institutional evaluation (3/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management (3/74).

AF-1717-0006

1. AIRCRAFT MAINTENANCE TECHNICIAN, JET ENGINE AIRCRAFT

2. AIRCRAFT MAINTENANCE TECHNICIAN, JET ENGINE AIRCRAFT (AIRCRAFT MAINTENANCE TECHNICIAN, JET ENGINE TYPE AIRCRAFT)

3. AIRCRAFT MAINTENANCE TECHNICIAN, JET ENGINE TYPE AIRCRAFT


Objectives: To train aircraft mechanics in maintenance management of jet engine aircraft.

Instruction: Lectures and practical exercises in the supervision and control of maintenance personnel; publications and aircraft records; aircraft electric, hydraulic, fuel, indicator, and flight control systems; structural maintenance; corrosion control; weight and balance instruments; and jet engines, starters, and ground equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in shop management (2/74); in the upper-division baccalaureate category, 2 semester hours in shop management (12/68).

Exhibit Dates: 5/54-12/68.

Objectives: To train officers in radar system operation and maintenance.

Instruction: Lectures and practical exercises in radar system operation and maintenance, including radar system general characteristics, AC and DC circuit fundamentals, electron tubes and amplifiers, transmitters and receivers, transmission circuits, microwave propagation, and management and security concepts and practices.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in maintenance management (4/74).

AF-1717-0009

1. PROGRAMS AND WORK CONTROL SPECIALIST

2. MAINTENANCE AND CONTROL SPECIALIST

Course Number: 3ALR5530-3.


Objectives: To train airmen to perform as program and work control or maintenance and control specialists.

Instruction: Lectures and practical exercises in programs and work control or maintenance and control, including planning, management, and control, including planning of maintenance of plumbing and interior systems, scheduling, and use of automatic data management systems. Includes program planning with emphasis on automation; planning structural, protevive coating, maintenance, and multishop work; production control; repair and maintenance of buildings and installed appliances; trouble analysis of low voltage electrical circuits; and planning fundamentals.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in engineering management (5/74); in the upper-division baccalaureate category, 2 semester hours in engineering management (5/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management (5/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).

AF-1717-0010

CONSOLIDATED MAINTENANCE MANAGEMENT (TAC)

Course Number: OZR4341-1.

Location: 3345th Technical School, Chanute AFB, IL.

Length: 4 weeks (108-120 hours).

Exhibit Dates: 9/59-12/68.

Objectives: To train officers in consolidated maintenance management.

Instruction: Lectures and practical exercises in the consolidated aircraft maintenance program as employed by the Tactical Air Command (TAC), including TAC consolidated maintenance concept; functions of management, principles of leadership, and administration; responsibilities of consolidated maintenance management, and the squadron commander; training control branch, standardization branch.
AF-1717-0011
CONSOLIDATED MAINTENANCE MANAGEMENT (ADC)

course Number: OZR4341.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (78-90 hours).

Exhibit Dates: 6/59-12/68.

Objectives: To train commissioned and warrant officers to manage and administer a consolidated maintenance program.

Instruction: Lectures and practical exercises in consolidated maintenance management. Course includes computer administration procedures, organization, documentation, production control, performance standards and review, work load and schedules, property and financial management, and quality control.

Credit Recommendation: In the lower-division baccalaureate category, 2 semester hours in shop management (12/68).

AF-1717-0012

1. AEROSPACE GROUND EQUIPMENT REPAIR TECHNICIAN
2. AEROSPACE GROUND EQUIPMENT REPAIR TECHNICIAN
3. AEROSPACE GROUND EQUIPMENT REPAIR TECHNICIAN
4. AIRCRAFT AND MISSILE GROUND SUPPORT EQUIPMENT REPAIR TECHNICIAN

AF-1717-0014

AIRCRAFT MAINTENANCE OFFICER ACCELERATED

Course Number: 30BR4621-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 8 weeks (240 hours).

Exhibit Dates: 7/73-12/73.

Objectives: To train officers as aircraft maintenance officers.

Instruction: Lectures and practical exercises in the repair and maintenance of aerospace ground equipment, including electrical and electronic circuits, components, and test equipment, and the troubleshooting and maintenance of electronic motors, communication engines, gas turbines, motors, engines, turbine-driven generator sets, air compressors, hydraulic support equipment, cabin leakage testers, ground heaters, and equipment coolers. Course 3: Includes pressurizing equipment. Version 4: Includes pressurizing equipment.

Credit Recommendation: In the lower-division baccalaureate category, 2 semester hours in shop management (12/68).

AF-1717-0015

MISSILE OFFICER, WS-133A

(MISSILE OFFICER, SM-80)

Course Number: OZR3121G.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 8 weeks (240 hours).

Exhibit Dates: 7/62-12/68.

Objectives: To train officers as missile officers for WS-133 missile systems.

Instruction: Lectures and practical exercises in WS-133 missile systems, including DC and AC circuits, generators and motors, solid-state devices, communications, power systems, guidance and control systems, operation and control of launch complex mechanical systems, maintenance management, and troubleshooting procedures.

Credit Recommendation: In the lower-division baccalaureate category, 2 semester hours in shop management (12/68).
COURSE EXHIBITS

Institution: Lectures and practical exercises in the duties of missile officers, including missile maintenance, management, transportation and handling; troubleshooting and maintenance of WS-133B missile systems; logistics and administrative procedures; ground equipment and electronics; test equipment; launch facility equipment; and missile alignment and targeting procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in shop management (12/68).

AF-1717-0019
MISSILE OFFICER, WS-133A-M
Course Number: OBR-3121G-1
Location: 3345th Technical School, Chanute AFB, IL.
Length: 13 weeks (390 hours).
Exhibit Dates: 6/67-12/68.
Objectives: To train officer as WS-133A-M missile maintenance officer.
Instruction: Lectures and practical exercises in WS-133A-M missile maintenance activities, including fundamentals and theory of missile electrical and electronic systems, complex mechanical systems, maintenance management, transport and handling, aerospace ground equipment, test equipment and troubleshooting procedures, targeting, and alignment tasks of the weapon system, system configuration to the block diagram level, and principles of guidance and control systems.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in shop management (12/68).

AF-1717-0020
ENGINE MANAGER
Course Number: 3AZR64570-1
Location: School of Applied Aerospace Sciences, Lowry AFB, CO.
Length: 2 weeks (60-80 hours).
Exhibit Dates: 2/3-3/3.
Objectives: To train enlisted personnel as engine managers at base level.
Instruction: Lectures and practical exercises in the duties of engine managers, including inventory control, storage and transportation methods, accounting, and supply and maintenance management.
Credit Recommendation: No credit because of the limited specialized nature of the course (7/74).

AF-1717-0021
GROUND EQUIPMENT MAINTENANCE OFFICER
Course Number: OBR4381; OB4381.
Length: 9-10 weeks (270-300 hours).
Exhibit Dates: 4/5-12/68.
Objectives: To train officers to perform as ground equipment maintenance officers.
Instruction: Lectures and practical exercises in the duties of ground equipment maintenance officers, including motorized and miscellaneous equipment and maintenance functions, maintenance shop organization and layout, and personnel management, supervision and training.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 4 semester hours in industrial shop management (7/74); in the upper-division baccalaureate category, 4 semester hours in shop management (12/68).

AF-1717-0022
MISSILE MAINTENANCE OFFICER, WS-133
Course Number: 205R3121G-3.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 4-5 weeks (159-191 hours).
Exhibit Dates: 7/73-12/73.
Objectives: To train officers as Minuteman missile maintenance officers.
Instruction: Lectures and practical exercises in duties of Minuteman missile maintenance officers, including weapon system fundamentals of missile electrical and electronic systems, fundamentals of guidance and control system, weapon system mechanical systems, missile maintenance management, and block 133 targeting and alignment, launch control facility system, and ground handling equipment.
Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1717-0023
MAINTENANCE MANAGEMENT
Course Number: OZR0066-2.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (108 hours).
Exhibit Dates: 6/3-12/68.
Objectives: To train enlisted personnel to understand maintenance management concepts and procedures.
Instruction: Lectures and practical exercises in maintenance management concepts and procedures. Course includes reporting, principles of management, managerial analysis and control, quality control and inspection procedures.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in maintenance management (8/74); in the upper-division baccalaureate category, 2 semester hours in maintenance management (12/68).

AF-1717-0024
AEROSPACE MUNITIONS STAFF OFFICER
Course Number: All Versions: 3OAR4611. Version 2: OAR4611.
Location: 3450th Technical School, Lowry AFB, CO.
Objectives: To train commissioned officers to perform as aerospace munitions staff officers.
Instruction: Lectures and practical exercises in the duties of an aerospace munitions staff officer. Course includes munitions management, budget estimating, research and development, and special military subjects.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management (8/74); in the upper-division baccalaureate category, 1 semester hour in principles of management (8/74).

AF-1717-0025
AIR FORCE BASE LEVEL MAINTENANCE MANAGEMENT
Course Number: 212.
Location: School of Systems and Logistics, Wright-Patterson AFB, OH.
Length: 2-3 weeks (84-90 hours).
Exhibit Dates: 12/69-Present.
Objectives: To train base level maintenance supervisors in management skills and maintenance management techniques.
Instruction: Lectures and practical exercises in management skills and maintenance management techniques, including maintenance in the USAF, management overview, equipment readiness, manpower management, configuration control, E00, remote terminal exercise, maintenance data collection, integrated logistics support, data processing and computer science, repair cycle asset control, management engineering, Comm/Actn Main-Man-X, review management survey and management improvements, decision making, motivation, interrelations-supply maintenance, and Log-Man-X Policy.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in principles of management (8/74); in the upper-division baccalaureate category, 1 semester hour in principles of management (8/74).

AF-1720-0001
RADIOGRAPH INTERPRETER
Course Number: ATSS3270-14.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 12/61-12/68.
Objectives: To train selected personnel to use radiographic equipment in the nondestructive testing of materials. Topics include radiographic theory, radiographic equipment, laboratory operations, and the physical interpretation of radiographs.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in industrial testing laboratory (6/74).

AF-1721-0001
INSTRUMENT REPAIRMAN
Course Number: 3ABR42230; AB42230.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL. 3345th Technical School, Chanute AFB, IL.
Length: 12-19 weeks (360-540 hours).
Exhibit Dates: 11/84-12/7.
Objectives: To train airmen to perform as instrument repairmen.

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AF-1721-0002

INSTRUMENT REPAIR TECHNICIAN

Course Number: Version 1: 3AA42270. Version 2: AAR42270; AA42270. Location: 3345th Technical School, Chanute AFB, IL. Length: Version 1: 9 weeks (258 hours). Exhibit Dates: 7/61-12/68. Version 2: 2/58-8/68. Objectives: To train airmen as instrument repair technicians. Instruction: Lectures and practical exercises in instrument repair, including basic electronics, solid-state devices, operation, circuit analysis, troubleshooting, and calibration of liquid quantity-indicating systems, air pressure-operated flight instruments, engine instruments, gyro-operated flight instruments and compass systems; and operation of test equipment such as air pressure-operated barometers and manometers and special test sets for instrument systems. Version 2: Includes management and supervision, electronic air pressure and much number computers, integrated vertical scale flight instruments, and periscope sextants.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1721-0003

B52H, A-14 AUTOPILOT, AN/AJR-8 HVRS and MD-1 ASTRO COMPASS

Course Number: ATS42532. Location: 3345th Technical School, Chanute AFB, IL. Length: 15 weeks (459 hours). Exhibit Dates: 7/61-12/68. Objectives: To train enlisted personnel to inspect, repair, and maintain the A-14 autopilot, AN/AJR-8, and MD-1 astrocompass (B-52H). Instruction: Lectures and practical exercises in the inspection, repair, and maintenance of the A-14 autopilot. Course includes construction, function, and interrelationship of the J-A compass and celestial navigation; operation of MD-1 astrocompass system; MD-1 inspection and maintenance/operation of AN/AJR-8 HVRS; AN/AJR-8 malfunction analysis; system, field, and bench testers; and the A-14 autopilot systems.

Credit Recommendation: Insufficient data for evaluation (6/74).

AF-1721-0004

AN/GMD-2 (RAWSIWIDE) FIELD AND ORGANIZATION MAINTENANCE

Course Number: ATS30270-23. Location: 3345th Technical School, Chanute AFB, IL. Length: 5 weeks (150 hours). Exhibit Dates: 8/61-12/68. Objectives: To train selected weather equipment/technicians and repairmen to maintain the AN/GMD-2 rawin set. Instruction: Lectures and practical exercises in the maintenance of the AN/GMD-2 rawin set. Course includes introduction and orientation, system analysis, operational adjustments, and preventive maintenance and repair of the AN/GMD-2 rawin set.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1721-0005

BAKER-NUNN PHOTOGRAPHIC MAINTENANCE

Course Number: 185540450. Location: 18th Surveillance Squadron, Edwards AFB, CA. Length: 6 weeks (180 hours). Exhibit Dates: 3/73-Present. Objectives: To familiarize airmen with the maintenance of the Baker-Nunn optical system. Instruction: Lectures and practical exercises in the maintenance of the Baker-Nunn optical system, including orientation; space track organization and mission; camera theory and operation; orbital mechanics; field reduction, precision reduction, maintenance management and planning; publications; maintenance reporting procedures; mission control; special optical camera theory; focus procedures; shutter drive mechanism; camera takeup motor; tracking mechanism; equatorial, azimuth, and drive drive; Versamat theory of operation; Versamat electrical components and calibration; Versamat film jams, racks, and crossovers; systems cleaning, dry box assembly, and quality control equipment.

Credit Recommendation: Insufficient data for evaluation (6/74).

AF-1721-0006

PRECISION DIMENSIONAL AND OPTICAL MEASURING TECHNICIAN

Course Number: 3AZR32470-8. Location: School of Applied Aerospace Sciences, Lowry AFB, CO; 3415th Technical School, Chanute AFB, IL. Length: 6 weeks (167-180 hours). Exhibit Dates: 5/74; in the upper-division baccalaureate category, 3 semester hours in metrology (5/74). Objectives: To train enlisted personnel to become machinists.

Instruction: Lectures and practical exercises in drawing interpretation; applied shop mathematics; use of technical manuals; bench work and assembly practices; use of hand tools and precision measuring instruments; heat treatment; machine tool operations on drill presses, lathes, shapers, milling machines, contour machines, and precision grinders; and weapons and ground support equipment maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 4 semester hours in machine tools or technology (5/74); in the upper-division baccalaureate category, 2 semester hours in machine tools or technology (5/74).
AF-1723-0002

Machinist

Course Number: Version 1: 3AZR53150-1.
Location: Version 1: School of Applied Aerospace Sciences, Chanute AFB, IL.
Version 2: 3345th Technical School, Chanute AFB, IL.
Version 2: 6 weeks (180 hours).

Exhibit Dates: Version 1: 7/23-12/73.
Version 2: 8/66-6/73.

Objectives: To train enlisted personnel having technical backgrounds at the craftsman level to design and fabricate tooils, dies, jigs, and fixtures for weaponry maintenance.

Instruction: Lectures and practical exercises in metals analysis; drawing interpretation; precision measurement; bench work; heat treatment; machine tool operations on grinders, lathes, milling machines, shapers, and tool and cutter grinders; and design and fabrication of jigs, fixtures, punches, and dies for weaponry maintenance.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in machine trades or mechanical technology (5/74); in the upper-division baccalaureate category, 2 semester hours in machine trades or mechanical technology (5/74).

AF-1723-0004

METALS PROCESSING SPECIALIST

(WELDER)

Course Number: 3ABR53230; ABR53230; ABS53230.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Version 2: 3345th Technical School, Chanute AFB, IL.
Length: 15-19 weeks (420-552 hours).

Exhibit Dates: 2/55-12/73.

Objectives: To train airmen to operate and maintain welding equipment used in the repair and maintenance of aircraft, jet engine parts, and ground support equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of welding equipment used in the repair and maintenance of aircraft, jet engine parts, and ground support equipment, including introductory gas welding, heat treatment and forging arc welding, welding fabrication, special arc welding applications, inert gas shielded welding, and aircraft and jet engine repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in welding (8/74).

AF-1723-0005

WELDING OF HIGH PERFORMANCE AIRCRAFT AND MISSILE SYSTEMS

Course Numbers: All Versions: 3AZR53250-3.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Version 2: 3345th Technical School, Chanute AFB, IL.
Length: Version 1: 5 weeks (138-143 hours).
Version 2: 6 weeks (180 hours).

Exhibit Dates: Version 1: 6/72-12/73.

Objectives: To train enlisted personnel to weld high-performance and exotic materials.

Instruction: Lectures and practical exercises in high-performance and exotic materials welding, including arc and inert gas shielded equipment, and joining of chromoly, nickel alloys, titanium, carbon steel, and aluminum alloys.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in welding laboratory (7/74).
Version 2: In the lower-division baccalaureate/associate degree category, 8 semester hours in welding laboratory (7/74).

AF-1724-0001

QUALITY CONTROL—MATERIALS AND PROCESSES

Course Number: AT553270-12.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 4/68-6/68.

Objectives: To train personnel in the procedures and techniques of quality control of materials and processes.

Instruction: Lectures and practical exercises in quality control, including fabrication metallurgy as applied to various metals; principles of heat treatment; types and applications of welding processes; application of chemical milling; metal-surface cleaning and finishes; trends in industrial processes; destructive and nondestructive testing and the equipment utilized; and theory and practical application of non-destructive testing methods, such as magnetic particle, fluorescent penetrant, eddy current, and bond testing.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in metals testing (5/74); in the upper-division baccalaureate category, credit in metals testing on the basis of institutional evaluation (5/74).

AF-1724-0002

NON-DESTRUCTIVE TESTING OF AIRCRAFT AND RELATED EQUIPMENT COMPONENTS

(NON-DESTRUCTIVE TESTING)

Course Number: AT553270-13.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 3 weeks (90 hours).
Exhibit Dates: 8/58-12/68.

Objectives: To train enlisted personnel in the procedures or techniques used in performing nondestructive testing and periodic inspection of aircraft parts.

Instruction: Lectures, demonstrations, and practical exercises in nondestructive testing. Topics include: principles, types, procedures, and characteristics of discontinuities; preparation and cleaning of parts for testing; protective finishes; theory and methods of magnetic particle, penetrant, ultrasonic, and industrial x-ray and gamma ray (radio isotopes) inspection methods applied to the fabrication, overhaul, and periodic inspection of aircraft parts.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in materials testing, nondestructive testing, machine trades, or industrial technology (5/74); in the upper-division baccalaureate category, 2 semester hours in materials testing, nondestructive testing, machine trades, or industrial technology (5/74).

AF-1724-0003

NON-DESTRUCTIVE INSPECTION SPECIALIST

Course Number: Version 1: 3ABR53630.
Version 2: ABR53630.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Version 2: 3345th Technical School, Chanute AFB, IL.
Length: Version 1: 12 weeks (432 hours).

Objectives: To train enlisted personnel as nondestructive inspection specialists.

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**AF-1724-0004**

**NON-DESTRUCTIVE INSPECTION (T/FA 455)**

- **Course Number:** AZR53250-1
- **Location:** 3345th Technical School, Chanute AFB, IL
- **Length:** 12 weeks (360 hours)
- **Exhibit Dates:** 2/66-12/68
- **Objectives:** To train enlisted personnel in nondestructive inspection of weapons and equipment.

**Instruction:** Lectures and practical exercises in nondestructive inspection techniques. Topics include the preparation of materials for inspection, procedures used in nondestructive inspection of pressurized metal vessels, penetrant, ultrasonic, eddy current, magnetic particle, and radiographic inspection methods; types, causes, and characteristics of discontinuities and defects; scope and conditions requiring nondestructive inspection; interpretation of indications found by various methods of inspection; standards for inspection regulations governing nuclear power plants, and applicable safety methods.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 3 semester hours in materials testing, nondestructive testing, machine trades, or industrial technology (5/74); in the upper-division baccalaureate category, 3 semester hours in materials testing, nondestructive testing, machine trades, and industrial technology (5/74).

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**AF-1728-0002**

**SENTRY DOG HANDLER (SENTRY DOG HANDLER, AIR POLICE)**

- **Course Number:** 3AA81130A; 3ALR81130A; ALR717130A; AR7717130; XX771730
- **Location:** School of Applied Aerospace Sciences, Lackland AFB, TX
- **Length:** 6-8 weeks (240 hours)
- **Exhibit Dates:** 5/58-12/73
- **Objectives:** To train military police in basic dog care and handling techniques.

**Instruction:** Lectures and practical exercises in basic dog care and handling, including handling and dog-teamwork procedures; history of dogs; dog health, disease prevention, and first aid; and obedience, search, and attack training.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in animal science or police administration/physical security (2/74).

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**AF-1728-0003**

**SECURITY POLICE COMBAT PREPAREDNESS**

- **Course Number:** 3AZR81150
- **Location:** School of Applied Aerospace Sciences, Lackland AFB, TX; 327th Technical School, Lackland AFB, TX
- **Length:** 3 weeks (100-102 hours)
- **Exhibit Dates:** 11/76-Present
- **Objectives:** To prepare security policemen for duty in a limited-war environment.

**Instruction:** Combat tactics; communications; map and compass reading; air base defense planning; intrusion detection equipment; night-observation devices.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 1 semester hour in police administration and operations (1/74); in the upper-division baccalaureate category, credit in police administration and operations on the basis of institutional evaluation (1/74).

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**AF-1728-0004**

**TRAFFIC MANAGEMENT AND ACCIDENT INVESTIGATION**

- **Course Number:** 3AZR81271-1
- **Location:** School of Applied Aerospace Sciences, Lackland AFB, TX
- **Length:** 4 weeks (150 hours)
- **Exhibit Dates:** 4/72-12/73
- **Objectives:** To train air traffic enforcement officers and accident investigators.

**Instruction:** Development of installation vehicle codes and traffic flow plans; traffic trends analysis; planning of traffic accident investigations; procedures for preparing and maintaining traffic reports and records, and utilizing graphs, charts, and maps.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in police administration and management or public administration (2/74).

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**AF-1728-0005**

**RESERVE SPECIAL INVESTIGATIONS AND COUNTERINTELLIGENCE TRAINING (RESERVE REFRESHER)**

- **Course Number:** None.
- **Location:** Special Investigations School (AFOSI), Washington, DC.
- **Length:** 2 weeks (66 hours)
- **Exhibit Dates:** 1/76-Present
- **Objectives:** To provide update training in current Special Investigations policies.

**Instruction:** Focus on administrative and management procedures, and current Special Investigations policies.

**Credit Recommendation:** In the upper-division baccalaureate category, 1 semester hour in police administration/physical security (11/77).

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**AF-1728-0006**

**RESERVE SPECIAL INVESTIGATOR**

- **Course Number:** None.
- **Location:** Special Investigations School (AFOSI), Washington, DC.
- **Length:** 4 weeks (258 hours)
- **Exhibit Dates:** 1/76-Present

**Objectives:** To teach the student to conduct investigations.

**Instruction:** Focus on the legal responsibilities imposed on him by military law and authority, to obtain information in accordance with current policies, and to incorporate data into reports of investigation.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in police administration and operations (1/74); in the upper-division baccalaureate category, credit in police administration and operations on the basis of institutional evaluation (1/74).

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**AF-1728-0007**

**SECURITY POLICE STAFF OFFICER**

- **Course Number:** 30AR8111.
- **Location:** School of Applied Aerospace Sciences, Lackland AFB, TX
- **Length:** 3 weeks (91-118 hours)
- **Exhibit Dates:** 4/72-12/73
- **Objectives:** To provide officers with advanced career training in police management and administration.

**Instruction:** Planning and programing of police systems security administration and management of security programs; functions of law enforcement; Air Force directions program; duties and responsibilities of the security police chief.

**Credit Recommendation:** In the lower-division baccalaureate/associate degree category, 2 semester hours in police administration and management or public administration.
AF-1728-0008
SECURITY SPECIALIST
Course Number: 3ABR81130-1.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 9 weeks (270 hours).
Exhibit Dates: 9/72-12/73.
Objectives: To prepare special police officers for duty in a limited-war environment.
Instruction: Lectures and field projects in use of police weapons, combat tactics, communications, map and compass, air base defense planning, intrusion detection equipment, night, observation devices, and ground equipment intelligence.
Credit Recommendation: No credit because of the military nature of the course (2/74).

AF-1728-0013
PATROL DOG EXPLOSIVES DETECTION
Course Number: 3AZR81150A-2.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 9 weeks (270 hours).
Exhibit Dates: 1/73-12/73.
Objectives: To train qualified patrol dogs to detect and locate explosives, and to train qualified patrol dog handlers to recognize the dog's alert to explosives.
Instruction: Practical training in article retrieving, detecting explosives, and follow-up patrol dog training.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in animal science or physical security (2/74).

AF-1728-0014
PATROL DOG HANDLER TRANSITION
Course Number: 3ALR81130A-1.
Location: Lackland Military Training Center, Lackland AFB, TX.
Length: 12 weeks (144 hours).
Exhibit Dates: 7/72-12/73.
Objectives: To prepare security personnel to train dogs to perform patrol dog duties.
Instruction: Lectures and practical exercises in dog training principles; tracking; detecting and alerting; and care of the dog, kennel, and equipment.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in animal science or in police administration/physical security (2/74).

AF-1728-0015
PATROL DOG HANDLER EXHAUSTION
Course Number: 3AZR81150A-2.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 4 weeks (114 hours).
Exhibit Dates: 9/72-12/73.
Objectives: To train experienced sentry dog handlers to perform as patrol dog handlers.
Instruction: Practical exercises in application of handler techniques; intrusion and agitation; recognition of alerts; performance evaluation, training, and utilization records, utilization of patrol dog teams; selection of kennel and training facilities.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in animal science (2/74).

AF-1728-0016
SECURITY POLICE ADMINISTRATION (POLICE ADMINISTRATION)
Course Number: 3AZR81291.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 3 weeks (85-113 hours).
Exhibit Dates: 10/72-12/73.
Objectives: To train noncommissioned officers and civilians in police administrative duties.
Instruction: Administration; policy formulation; activities coordination; monitoring and inspection of security policy programs; protection and management of resources; installation security, and USAF corrections.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in criminal justice or physical security (1/74); in the upper-division baccalaureate category, 2 semester hours in criminal justice or physical security (1/74).

AF-1728-0017
COMBAT SECURITY POLICE (BASIC COMBAT TRAINING (PHASE I))
(SPECIALIZED COMBAT TRAINING (PHASE II))
(SPECIALIZED COMBAT TRAINING (PHASE III))
AIR POLICE OFFICER
30B-121
AIR POLICE OFFICER
30B-122

AF-1728-0018
1. SECURITY POLICE OFFICER
(AIR POLICE OFFICER)
2. AIR POLICE OFFICER

AF-1728-0020
AF-1728-0019
1. SECURITY POLICEMAN (Air Policeman)
2. AIR POLICEMAN (Air Policeman (Basic Air Police))
3. AIR POLICE (Air Police)

Location: All Versions: Lackland Military Training Center, Lackland AFB, TX. Version 3: 3625th Training Group (ABD), Parks AFB, CA.


Objectives: To train airmen to perform duties as security policemen.

Instruction: Lectures and practical exercises in security, law enforcement, court procedures, and field training.

Credit Recommendation: Version 1: In the lower-division baccalaureate category, 3 semester hours in police administration or physical security (2/74); in the upper-division baccalaureate category, 2 semester hours in police administration or physical security (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in police administration or physical security (2/74); in the upper-division baccalaureate category, 2 semester hours in police administration or physical security (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in police administration or physical security (2/74); in the upper-division baccalaureate category, 2 semester hours in police administration or physical security (2/74); in the upper-division baccalaureate category, 3 semester hours in police administration or physical security (2/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in police administration or physical security (2/74); in the upper-division baccalaureate category, 3 semester hours in police administration or physical security (2/74); in the lower-division baccalaureate category, 3 semester hours in police administration or physical security (2/74); in the upper-division baccalaureate category, 2 semester hours in police administration or physical security (2/74).

AF-1728-0020

SPECIAL INVESTIGATORS
(Special Investigations and Counterintelligence Specialists)

Course Number: 5A04082310; 5O0B082310.
Location: Special Investigations School, Washington, DC. Length: 10 weeks (336 hours).
Exhibit Dates: 9/62-Present.
Objectives: To train officers and enlisted personnel in the basic fundamentals and procedures of conducting investigations.

Instruction: Legal considerations; interviews; files and case management systems; formal reports of investigations; criminal, fraud, personnel security, and counterintelligence investigations; investigative techniques.

Credit Recommendation: In the upper-division baccalaureate category, 6 semester hours in police administration/physical security (2/74).

AF-1728-0021
Sentry Dog Handler Supervisor

Course Number: 3AZR871170A.
Location: Lackland Military Training Center, Lackland AFB, TX.
Length: 2 weeks (60 hours).
Exhibit Dates: 10/71-12/73.
Objectives: To train selected or police, military, or security dog handlers to perform the duties of kennel master.

Instruction: Health and first aid; safety; dog kennel; equipment care; dog team evaluation and training; planning and procurement procedures; training areas and kennel facilities; and management and operation of kennel activity.

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

AF-1728-0022
COMBAT PATROL DOG

Course Number: None.
Location: Combat Security Police Training School, Ft. Campbell, KY. Length: 10 weeks (400 hours).
Exhibit Dates: 7/69-Present.
Objectives: To provide advanced training to combat patrol dog handlers preparing for assignment to hostile environments.

Instruction: Lectures and field exercises in scouting, patrolling, and detection of booby traps; confidence training technique of rappelling and crossing obstacles.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in animal science or police administration (1/74).

AF-1728-0023
PATROL DOG HANDLER SUPERVISOR

Course Number: 3AZR871170-1.
Location: School of Applied Aerospace Studies, Lackland AFB, TX. Length: 2 weeks (60 hours).
Exhibit Dates: 10/72-12/73.
Objectives: To prepare patrol dog handlers for the position of kennel master.

Instruction: Lectures on health and first aid; safety; dog kennel and equipment procedures; training areas and kennel facilities; management and operation of kennel activity.

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

AF-1728-0024
'O-6 and R-2 Crash Rescue Trucks, Field and Organizational Maintenance (O-10 and O-11A Crash Fire Trucks, Field Maintenance)

Course Number: ATS47152-27; ATS47152-3.
Location: 3345th Technical School, Chanute AFB, IL. Length: 4-5 weeks (120-150 hours).
Exhibit Dates: 3/59-12/68.
Objectives: To train enlisted personnel to maintain, operate, and repair O-11A and O-11B crash fire trucks.

Instruction: Lectures and practical exercises in the maintenance, operation, and repair of O-11A and O-11B crash fire trucks, including maintenance of engines, spray units, steering system, dispensing systems, and troubleshooting and adjustment procedures.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science technology, 1 as an elective in vocational or technical programs (7/74).

AF-1728-0025
O-11A and O-11B Crash Fire Trucks, Field Maintenance

Course Number: ATS47152-35.
Location: 3345th Technical School, Chanute AFB, IL. Length: 4 weeks (120 hours).
Exhibit Dates: 1/60-12/68.
Objectives: To train enlisted personnel to maintain, operate, and repair O-11A and O-11B crash fire trucks.

Instruction: Lectures and practical exercises in the maintenance, operation, and repair of O-11A and O-11B crash fire trucks.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science technology, 1 as an elective in vocational or technical programs (7/74).

AF-1728-0026
LEGAL SERVICE SPECIALIST

Course Number: 3A1R70530.
Location: School of Applied Aerospace Sciences, Keesler AFB, MS. Length: 6 weeks (178 hours).
Exhibit Dates: 1/73-12/73.
Objectives: To train personnel as legal services specialists.

Instruction: Lectures and practical exercises on the function of legal services specialists, including military justice and closed-microphone court reporting, legal administration, civil law, and Air Force claims.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in fire science technology, 1 as an elective in vocational or technical programs (7/74).

AF-1728-0027
JUDGE ADVOCATE STAFF OFFICER

Course Number: None.
Location: Institute for Professional Development, Maxwell AFB, AL. Length: 6 weeks (187 hours).
Exhibit Dates: 8/72-Present.
Objectives: To orient newly commissioned lawyers to the military system of law and to provide an overview of the applications of legal principles in the military establishment.

Instruction: Topics include: jurisdiction; court structure; legal processes; criminal and civil litigation; torts; claims; and forensic practices.
AF-1728-0028
SECURITY POLICE SUPERVISOR
Course Number: 3AZR81170; 3AAR81170.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX; 3275th Technical School, Lackland AFB, TX.
Length: 4 weeks (120 hours).
Exhibit Dates: 5/70-12/73.
Objectives: To train enlisted personnel to supervise a small police organization.
Instruction: Lectures and practical exercises in the administration and supervision of a small police organization. Course includes a review of police organizational procedures, to include: report writing, public speaking, investigative techniques, legal studies, drug abuse, traffic control, crash investigation, physical security, and the employment of personnel and equipment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in public administration, police administration, or criminal justice (7/74), in the upper-division baccalaureate category, 2 semester hours in fire science technology (8/74).

AF-1728-0031
STAFF JUDGE ADVOCATE
Course Number: None.
Location: Institute for Professional Development, Maxwell AFB, AL.
Length: 2 weeks (66 hours).
Exhibit Dates: 7/72-Present.
Objectives: To provide Staff Judge Advocates with legal principles, concepts, and applications, and to enhance professional and leadership qualifications.
Instruction: Lectures and independent study in recent criminal and civil decisions in military law and their applicability to the revision or formulation of policy and procedure.

Credit Recommendation: No undergraduate credit because of the professional nature of the course (7/75).

AF-1728-0032
FIRE PREVENTION TECHNICIAN
Course Number: 3AZR57170.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL; 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (120-148 hours).
Exhibit Dates: 12/69-12/73.
Objectives: To provide personnel with knowledge and skills sufficient to become fire prevention technicians.
Instruction: Lectures and practical exercises in fire protection and building design, building occupancy considerations, installation security, ventilation tests, and motor vehicle traffic program.

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

AF-1728-0033
FIRE PROTECTION SPECIALIST (MISSILES)
Course Number: 3AZR57150-1; ABR57130; AB57130.
Location: School of Applied Aerospace Sciences, Chanute AFB, IL.
Length: 2 weeks (60-70 hours).
Exhibit Dates: 7/72-12/73.
Objectives: To train selected airmen to perform fire protection duties when hazardous or explosive materials are present.
Instruction: Lectures and practical exercises in the use of special purpose equipment, conventional weapons, rockets and missiles, and missile propellants; fire protection for missiles, rockets, and launch sites; disaster planning and procedures; decontamination; and security education programs.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1728-0034
FIRE PROTECTION SUPERVISEOR (FIREFIGHTING VEHICLE OPERATOR)
Course Number: 3AAR57170-1; AAR57170-1; AAR57170; AA57170.
Location: 345th Technical School, Chanute AFB, IL; 345th Technical School, Lackland AFB, TX; 345th Technical School, Minneapolis AFB, MN.
Length: 8-10 weeks (210-274 hours).
Exhibit Dates: 4/55-12/73.
Objectives: To train airmen to perform as apprentice fire protection specialists.

Instruction: Lectures and practical exercises in fire protection principles, objectives, and responsibilities; principles and theory of control and extinguishment; structural firefighting; rescue procedures; structural and firefighting operations; and aerospace vehicle firefighting.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1729-0001
AIR FORCE FOOD SERVICE OFFICER COURSE
Course Number: 67244.
Location: U.S. Army Quartermaster School, Ft. Lee, VA.
Length: 8 weeks (278 hours).
Objectives: To provide commissioned officers and warrant officers with a working knowledge of the duties and functions of food service officers.

Instruction: Organization, management, and operation of food service and subsistence supply facilities; nutrition and menu planning; meat products; theory and principles of cooking and baking.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in organization and management (12/73); in the upper-division baccalaureate degree category, 6 semester hours in food and beverage service operation; and 6 semester hours in food service officers.

AF-1729-0002
COOK
1. COOK
2. COOKING

Course Number: Version 1: 3ABS62230.
Version: 3ABS62230-1.0.0.0.
Location: Version 1: School of Applied Sciences, Lowry AFB, CO. All Versions: 3380th Technical Training Wing, Keesler AFB, MS.
Objectives: To provide enlisted personnel with basic instruction in preparing, cooking, and serving food in unit, field, and inflight kitchens.

Instruction: Food preparation; inspection and storage of supplies; dining hall and kitchen sanitation; inspection procedures; use and care of food service equipment; and nutrition.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in food preparation (12/73); in the upper-division baccalaureate category, 6 semester hours in food preparation (12/73). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in food preparation (12/73); in the upper-division baccalaureate category, 3 semester hours in food preparation (12/73).

AF-1729-0003
OPEN MESS MANAGEMENT (OFFICER)
Course Number: 3OB77331.
Location: School of Applied Aerospace Sciences, Lowry AFB, CO.
Length: 7 weeks (210 hours).
Exhibit Dates: 8/72-12/73.

Objectives: To train officers in the principles and techniques of food service management.

Instruction: Lectures and practical exercises in the techniques and procedures of food and beverage service operation; selection and training of personnel; determination of supplies, funds, space, and equipment requirements; basic accounting principles; open mess sanitation and safety; record keeping and reporting; and business law.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1729-0004
OPEN MESS MANAGEMENT (ENLISTED)
Course Number: 3AR74270.
Location: School of Applied Aerospace Sciences, Lowry AFB, CO.
Length: 7 weeks (210 hours).
Objectives: To train enlisted personnel as supervisors in food service facilities.

Instruction: Lectures and practical exercises in basic accounting principles; open mess sanitation and safety; control food costs; record keeping; open mess administration; business law; employee administration; selection and training of subordinate personnel.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in food preparation, catering or introduction to food service, 3 in food management, and 3 in food and beverage cost control (7/74); in the upper-division baccalaureate category, 3 semester hours in institutional (culinary) management.

AF-1729-0005
MEAT CUTTING
Course Number: AB62330.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 8 weeks (320 hours).
Exhibit Dates: 8-12/68.
Objectives: To train airmen to cut and process meats preparatory to cooking.

Instruction: Lectures and practical exercises in cutting and processing of meats preparatory to cooking, including meat cutting, freezing and thawing, and meat and dairy products, meat and fish processing, and machinery.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in food preparation and 3 in food or meat preparation (7/74).

AF-1729-0006
ALIETIAN DEW LINE BAKER
Course Number: ATS62170-1.
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (120 hours).
Exhibit Dates: 8/60-12/68.
Objectives: To train airmen as bakers.

Instruction: Lectures and practical exercises in haking, including elements of nutrition, personnel and production planning, sanitation; haking of cakes, cookies, puddings and custards, pies, biscuits, and various breads; and decoration of pastry shop baked goods.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 5 semester hours in food preparation (7/74).

AF-1729-0007
OPEN MESS MANAGEMENT (U.S. AIR FORCE)
Course Number: OZC6411.
Location: Quartermaster School, Ft. Lee, VA.
Length: 7 weeks (228-231 hours).
Exhibit Dates: 8/60-12/64.
Objectives: To train officers, warrant officers, and enlisted personnel who possess current food handler's certificates to perform as food service supervisors or stewards.

Instruction: Lectures and practical exercises in duties of food service superintendents or steward supervisors, including operation and maintenance of equipment and facilities, storage and sanitation, management of open mess facilities (including recreational facilities), and formal events and entertainment programming; food planning and nutrition; food selection, cost control, and preparation and serving of buffet-type meals; and accounting of business law.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in food preparation, catering or introduction to food service, 3 in food management, and 3 in food and beverage cost control (7/74); in the upper-division baccalaureate category, 3 semester hours in institutional (culinary) management.

AF-1729-0008
1. BAKER
2. BAKING

Course Number: AB62130.
Location: 3450th Technical School, Warren AFB, NY.
Objectives: To train airmen to bake bread, rolls, pies, cookies, and other baked products.

Instruction: All Versions: Lectures and practical exercises in the principles and techniques of garrison and field baking, including small-quantity kitchen, and pastry bakery (integrated training). Version 1: Topics include principles of nutrition, sanitation, procurement and storage, bread bakery (integrated training). Version 2: Topics include production bread baking shop; preparation of specific doughs, breads, and cakes; rations, storage, and recipe breakdown.

Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 6 semester hours in baking, 3 in food management (8/74), in the upper-division baccalaureate category, 3 semester hours in food management (8/74).

Version 2: In the lower-division baccalaureate/associate degree category, 6 semester hours in baking, and 3 in food management (8/74), in the upper-division baccalaureate category, 3 semester hours in food management (8/74).

Air Force 1-229
AF-1729-0009

1. DIET THERAPY SUPERVISOR

   Course Number: Version 1: 3AZR662271.
   Version 2: AAR662271; AR662271.
   Location: All Versions: 3750th Technical School, Sheppard AFB, TX.
   Version 1: 12 weeks (150 hours).
   Version 2: 5 weeks (150-156 hours).
   Exhibit Dates: Version 1: 9/70-12/73.
   Objectives: To provide advanced career training to diet supervisory personnel.

   Instruction: Lectures and practical exercises in diet therapy, including regulations and manuals related to the operation of a medical food service and supervision and management of equipment, personnel, and subsistence in the operation of a food service department at Air Force Medical Treatment Facilities. Emphasis is on subsistence accounting, cycle and selective menu planning and writing, food production and service, nutrition, and dietary treatment of diseases. Version 1: Topics include dietetics, applied therapeutic nutrition, food service management, disaster feeding, and merit costing. Version 2: Topics include food production and service, food service sanitation, nutrition and diet therapy, and administration.

   Credit Recommendation: Version 1: In the baccalaureate/associate degree category, 3 semester hours in food and beverage cost control, 3 in food management (7/74); in the upper-division baccalaureate category, 3 semester hours in food management, 3 in food and beverage cost control (7/74). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in food and beverage cost control, 3 in food management, 3 in food and beverage cost control (7/74); in the upper-division baccalaureate category, 2 semester hours in food service management (12/68).

AF-1730-0001

EQUIPMENT COOLING SPECIALIST/TECHNICIAN, SM-68B

Course Number: ATCS4550Y-1:
ATS54550Y-2.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 8 weeks (240 hours).

Exhibit Dates: 1/62-12/68.

Objectives: To train enlisted personnel to operate and maintain air conditioning systems and controls; to service refrigeration and air handling equipment.

Instruction: Lectures and practical exercises in the operation, maintenance, and servicing of refrigeration equipment with emphasis on the practical rather than the theoretical. Includes air handling systems, and pneumatic and electric control systems.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1730-0002

EQUIPMENT COOLING SPECIALIST

Course Number: ABR56630B.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 23-24 weeks (600-630 hours).

Exhibit Dates: 9/58-12/68.

Objectives: To provide enlisted personnel with entry-level training in the design, operation, and maintenance of environmental systems.

Instruction: Lectures and practical exercises in the maintenance and operation of cooling systems. Course includes instruction in environmental controls from calculation of heat loads to actual operation of a five-ton air conditioning system, including component selection; water analysis; electric, pneumatic, and electronic controls; basic electricity; and the servicing of motors.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 15 semester hours in air conditioning and refrigeration controls, and credit in electricity on the basis of institutional evaluation (5/74).

AF-1730-0003

REFRIGERATION SPECIALIST/SUPERVISOR

(SM-68)

Course Number: ATSS6650B-14.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 10 weeks (300 hours).

Exhibit Dates: 5/61-12/68.

Objectives: To train enlisted personnel to repair and maintain pneumatic and electric control systems for refrigeration and air conditioning systems.

Instruction: Lectures and practical exercises in cooling and refrigeration systems. Course stresses the servicing of pneumatic and electric controls of refrigeration and air conditioning units.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in pneumatic and electric controls and control systems for refrigeration and air conditioning systems, and additional credit on the basis of institutional evaluation (5/74).

AF-1730-0004

REFRIGERATION AND AIR CONDITIONING

Course Number: ATSS6650B-2.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 3 weeks (90 hours).

Exhibit Dates: 4/62-12/68.

Objectives: To train enlisted personnel to perform service procedures on pneumatic, electric, and electronic control systems employed in air conditioning systems.

Instruction: Lectures and practical exercises in servicing the controls on refrigeration and air conditioning units. Course includes the principles of operation, service procedures, maintenance, and troubleshooting of the components of pneumatic, electric, and electronic control systems, and an introduction to psychrometrics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in control systems troubleshooting and service on the basis of institutional evaluation (5/74).

AF-1730-0005

REFRIGERATION AND AIR CONDITIONING CONTROLS (JOHNSON)

Course Number: 3AZR54550-1.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 2 weeks (60 hours).

Exhibit Dates: 4/72-12/73.

Objectives: To train enlisted personnel to service pneumatic control system components.

Instruction: Lectures and practical exercises in the operation, servicing, and troubleshooting of Johnson pneumatic controls, including thermostats, humidistats, relays, step controllers, damper operators, valves, pilot positions, pressure controllers, and accumulators.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-1730-0006

REFRIGERATION AND AIR CONDITIONING CONTROL (MINN-HONEYWELL)

Course Number: 3AZR54550.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 3 weeks (90 hours).

Exhibit Dates: 12/67-12/73.

Objectives: To train enlisted personnel to service pneumatic, electric, and electronic control systems as employed in air conditioning systems.

Instruction: Lectures and practical exercises in the principles of operation, service procedures, and calibration of pneumatic, electronic and electric control system components. Also included is an introduction to psychrometrics.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in control systems operation and service on the basis of institutional evaluation (5/74).

AF-1750-0007

REFRIGERATION SUPERVISOR/BACALORNE (SM-65F)

Course Number: ATSS6650B-19.

Location: 3750th Technical School, Sheppard AFB, TX.

Length: 5 weeks (150 hours).

Exhibit Dates: 6/61-12/68.

Objectives: To train enlisted personnel to operate, maintain, and troubleshoot the air conditioning, heating, and ventilation systems of silo-stored weapons.

Instruction: Lectures and practical exercises in the fundamentals of refrigeration, ventilation, and controls.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 1 semester hour in basic refrigeration (6/74).

AF-1730-0008

REFRIGERATION TECHNICIAN, SM-80

Course Number: AT554570Y-1.

Location: 3345th Technical School, Chanute AFB, IL.

Length: 4 weeks (120 hours).

Exhibit Dates: 9/62-12/68.

Objectives: To train enlisted personnel to maintain missile environmental and equipment cooling systems.

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AF-1730-0009

REFRIGERATION AND AIR CONDITIONING EQUIPMENT

Course Number: 3ZR54550-2
Location: School of Applied Aerospace Sciences, Sheppard AFB, TX.
Length: 5 weeks (150 hours)
Exhibit Dates: 8/72-12/73

Objectives: To train enlisted personnel to operate, maintain, and troubleshoot refrigeration and air conditioning systems.

Instruction: Lectures and practical exercises in refrigeration and air conditioning systems. Course covers fundamentals of refrigeration, and components from psychrometry through domestic and commercial applications, centrifugal, reciprocating, and absorption systems; electrical principles and applications to refrigeration prime movers, as well as some coverage of electrical, pneumatic, and electronic controls.

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

AF-1730-0011

REFRIGERATION SPECIALIST, WS-133A

(REFRIGERATION SPECIALIST, SM-80)

Course Number: 3ZR54530-1; AZR54530-1; AZR54530Y-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 6-7 weeks (180-210 hours)
Exhibit Dates: 6/73-9/73.
Objectives: To train enlisted personnel to operate, maintain, and troubleshoot refrigeration and air conditioning equipment. Course includes cooling with brine and related controls.

Instruction: Lectures and basic instruction in the maintenance and operation of refrigeration equipment. Course includes cooling with brine and related controls.

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

AF-1730-0012

REFRIGERATION SPECIALIST, WS-133B

Course Number: AZR54530-2.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 7 weeks (210 hours)
Exhibit Dates: 3/65-12/68.

Objectives: To train enlisted personnel to operate, maintain, and troubleshoot environmental and equipment cooling systems at launch and launch control facilities.

Instruction: Lectures and practical exercises in the maintenance and operation of environmental and equipment cooling systems, including missiles, technical publications, weapon system maintenance, electronic and pneumatic control systems, launch facility brine chiller refrigeration components, launch equipment room air distribution system, and launch control support building heat exchanger components.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in refrigeration controls and components, and additional credit in refrigeration controls on the basis of institutional evaluation (6/74).

AF-1730-0015

CRYOGENIC FLUIDS PRODUCTION SPECIALIST

(REFRIGERATION SPECIALIST, SM-80)

Course Number: AZR54450-1.
Location: 3345th Technical School, Chanute AFB, IL.
Length: 4 weeks (138 hours)
Exhibit Dates: 4/65-12/68.

Objectives: To train and equipped personnel to troubleshoot, maintain, and operate a small cryogenic liquid production plant.

Instruction: Lectures and practical exercises in the maintenance and operation of a small cryogenic liquid production plant. Course includes introduction to cryogenic hazards and safety techniques, storage of cryogenic fluids, liquid production process used in the oxygen-nitrogen generating plant, and troubleshooting and repair.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in refrigeration technology (6/74).
control systems, launch closure system, diesel fuel oil system, power shock attenuation and, blast valve system, and hatch installation.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in electric/1, 1 in small engine repair, 1 in introduction to internal combustion engines, 1 in introduction to hydraulic/pneumatics (4/74); in the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (4/74).

AF-1732-0001
ENGINEER ENVIRONMENTAL SUPPORT
(Specialist)

Course Number: 3ABR56330.
Location: Technical Training Center, Sheppard AFB, TX.
Length: 12 weeks (380 hours).
Exhibit Dates: 10/65-12/73.

Objectives: To train enlisted personnel as water and waste processing specialists and supervisors in the collection, transportation, and disposal of solid waste.

Instruction: Lectures in water purification and waste disposal. Topics include basic mathematics, water and waste water analysis, operating principles of water treatment plants, specialized water treatment processes, maintenance of water and waste processing system components, collection, transportation, treatment and disposal of solid waste.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in water laboratory technology, 3 in equipment maintenance (5/74); in the upper-division baccalaureate category, 3 semester hours in water purification (11/68).

AF-1732-0002
WATER AND WASTE PROCESSING

Course Number: 4AST56350-1.
Location: Sheppard Technical Training Center, Sheppard AFB, TX.
Length: 3 weeks (90 hours).
Exhibit Dates: 10/73-12/73.

Objectives: To train enlisted personnel in water and waste treatment and processing.

Instruction: Lectures and field experience in the treatment and testing of water for human consumption and in sewage and waste disposal. Topics include clarification and filtration, chemical disinfection, ion exchange, servicing and maintaining a water purification unit, operating principles of pumps, and waste water analysis.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 3 semester hours in water and waste water technology (5/74); in the upper-division baccalaureate category, 3 semester hours in water and waste water technology (5/74).

AF-1732-0003
MISSILE FACILITY WATER TREATMENT

Course Number: A/ZR56330.
Location: 3415th Technical School, Sheppard AFB, TX.
Length: 5 weeks (150 hours).
Exhibit Dates: 12/63-12/68.

Objectives: To train enlisted personnel to operate and maintain water processing and treatment equipment.

Instruction: Lectures and practical exercises in the operation and maintenance of water processing and treatment equipment, including water characteristics and chemistry, water testing, purification of water by chlorination, filtration and iron removal, coagulation, clarification and sedimentation, ion exchange, demineralization and distilled, desalting, and industrial water treatment.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 2 semester hours in water treatment or water purification (5/74).

AF-1733-0001
PARACHUTE RIGGER

Location: Version 1: School of Applied Aerospace Sciences, Chanute AFB, IL. Version 2: 3345th Technical School, Chanute AFB, IL.

Objectives: To teach parachute packing and packing as applied to personnel, cargo, deceleration and drogue parachute, testing of components, and repair of parachutes.

Instruction: Lectures and practical exercises in instruction of parachutes and components, cleaning, repair, and packing cargo and deceleration parachutes; drop-testing of parachutes; performance of preventive maintenance on sewing machines, drying fans, and equipment; and supervision and instruction of parachute riggers.

Credit Recommendation: See explanatory note at the beginning of the Air Force section.

AF-2203-0001
SMALL ARMS SPECIALIST
(MARKSMANSHIP INSTRUCTOR)

Course Number: 3ABR75330; 3ALR75330; A1R75330.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 9-11 weeks (288-330 hours).
Exhibit Dates: 9/59-12/73.

Objectives: To train personnel to serve as marksmanship instructors.

Instruction: Lectures and practical exercises in instruction, lesson planning, practice teaching, and marksmanship.

Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in instructional methods (12/68).

AF-2203-0002
COMMAND ORIENTED RADAR PREDICTION

Course Number: A/ZR20630-1.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 2 weeks (44 hours).
Exhibit Dates: 5/72-12/73.

Objectives: To train enlisted and officer air intelligence personnel to interpret maps, photographs, and radar output data.

Instruction: Lectures include air target charts, contour, relief interpretation, use of aerial photography with selected charts, computer printout, radar prediction (sandpaper technique), mission planning, systems capabilities, and photographic reproduction.

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

AF-2203-0003
ELECTRONIC WARFARE OFFICER TRAINING
(RECONNAISSANCE)

Course Number: 51-B-73-C.
Location: Air Training Command, Mather AFB, CA.
Length: 3 weeks (117 hours).
Exhibit Dates: 6/69-Present.

Objectives: To qualify enlisted personnel as electronic warfare officers.

Instruction: Lectures and simulator training in basic and advanced audio analysis, basic and advanced reconnaissance systems operation, and leadership training.

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

AF-2203-0004
ELECTRONIC WARFARE SYSTEMS

Course Number: 20SR3216.
Location: 3415th Technical School, Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/68-12/73.

Objectives: To train equipment specialists, engineers, and focal-point managers in the electronic warfare logistic support area.

Instruction: Lectures on security, introduction to electronic warfare policies and practices; and general description, capabilities, and data flow of electronic warfare systems.

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

AF-2203-0005
MISSILE FACILITIES SPECIALIST
(CGMD-13B, AGC CREW)

Course Number: 3AZR54150; AZR54150.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 8 weeks (240 hours).
Exhibit Dates: 4/67-12/73.

Objectives: To train enlisted personnel to repair missile ground support equipment.

Instruction: Lectures and practical exercises in missile ground support maintenance, including weapon system organization, deployment, operation, and safety procedures, tactical and facilities power equipment theory, schematic analysis, and maintenance procedures; and AGC tactical power equipment operation, troubleshooting, malfunction localization, maintenance, and inspection procedures.

Credit Recommendation: In the upper-division baccalaureate category, credit in electrical laboratory on the basis of institutional evaluation (3/74).
AF-2203-0006

AIR TRAFFIC ANALYSIS AIDE

Course Number: ABK2023o.
Location: Security Service School, Good- 
fellow AFB, TX.
Length: 28 weeks (840 hours).
Exhibit Dates: 7/72-12/73.
Objectives: To train enlisted personnel to 
analyze specific types of radio traffic.
Instruction: Lectures and laboratory in 
communications theory and procedures; 
typing; time-space mathematics theory and 
practical application; physical, geographical, 
and economic geography of world areas 
(underlining Eurasian continental and 
political divisions); computers and machine 
processing; report writing; and air opera-
tions, including aircraft flight charac-
teristics, air traffic control procedures, map 
reading, air navigation principles, and 
direction finding and plotting.
Credit Recommendation: In the lower-
division baccalaureate/associate degree 
category, 3 semester hours as an elective in 
military tactics (3/74).

AF-2203-0007

UNIT HISTORIAN DEVELOPMENT.

Course Number: AUIIPD900.
Location: Leadership and Management 
Development Center, Air University, Max-
well AFB, AL.
Length: 3 weeks (120 hours).
Exhibit Dates: 9/73-Present.
Objectives: To train airmen to perform the 
duties of unit historians, including 
responsibility for archival management, 
period analytical historical narratives, pri-
mary document evaluation and research 
methodology, oral history, and routine 
record keeping and management.
Instruction: Lectures, seminars, inter-
views, and exercises in Air Force history 
and organization; document research, 
historical methods and evaluation, research 
methodology, oral history, office adminis-
tration, security procedures, independent 
research and writing using primary material in 
the period United States military aviation 
historical repository.
Credit Recommendation: In the upper-
division baccalaureate/associate degree 
category, 3 semester hours as an elective in 
history (8/76).

AF-2203-0008

IDENTIFICATION/AIR TACTICS (SAGE)

Course Number: AZR27370B-3.
Location: 3380th Technical School, 
Keesler AFB, MS.
Length: 8 weeks (240 hours).
Exhibit Dates: 8/60-12/68.
Objectives: To train airmen to perform in 
identification or air tactics technicians.
Instruction: Lectures and practical exer-
cises in the duties of identification and air 
tactics technicians in a SAGE detection 
center, including system familiarization, air 
surveillance, SAGE organizational and 
fundamental and functional concepts and procedures.
Credit Recommendation: No credit 
because of the limited specialized nature of the 
course.

AF-2203-0009

USAF SENIOR NONCOMMISSIONED OFFICER 
ACADEMY (SENIOR NCO ACADEMY)

Course Number: None.
Location: Air University, Gunter AFB, AL.
Length: 9 weeks (227-244 hours).
Exhibit Dates: 7/73-Present.
Objectives: To prepare senior noncom-
missioned officers for expanded leadership 
and management roles by broadening their 
perspective of the military profession and 
its place in domestic and international af-
fairs.
Instruction: Seminars, lectures, and in-
directed individual studies in communica-
tions, world affairs, leadership and manage-
ment as applied to the military environ-
ment. The communications phase includes 
both written and oral exercises in writing, 
speaking, and reasoning skills. The military 
environment phase provides knowledge of 
the U.S. role in international affairs, includ-
ing a comparison of major political and 
economic systems. The management phase 
treats principles and functions of manage-
ment emphasizing the planning, pro-
gramming and budgeting aspects. Signifi-
cant study is devoted to increasing un-
derstanding of personnel systems and effective 
human resource management with emphasis 
on current behavioral science concepts. Student-centered instructional 
techniques include role playing, video-
assisted instruction, programmed learning 
and panel presentations.
Credit Recommendation: In the lower-
division baccalaureate/associate degree 
category, 3 semester hours in oral and writ-
ten communications (11/75); in the upper-
division baccalaureate category, 3 semester 
hours in contemporary world affairs, 4 in 
management and human relations (11/75).

AF-2203-0010

WEAPONS DIRECTION (SAGE)

Course Number: OZR1716-1.
Location: 3380th Technical School, 
Keesler AFB, MS.
Length: 8 weeks (240 hours).
Exhibit Dates: 8/60-12/68.
Objectives: To train commissioned offi-
cers to perform duties as senior directors, 
senior weapons directors, or weapons 
directors.
Instruction: Lectures and practical ex-
cises in the fundamentals of weapons 
direction (SAGE). Course includes com-
munication networks employed in the 
SAGE system; direction center, combat 
center, and command post concerns and 
fundamentals; and weapons employed in the 
SAGE system.
Credit Recommendation: No credit 
because of the military nature of the course 
(12/68).

AF-2203-0011

BMEWS SURVEILLANCE OFFICER

Course Number: OZR1716.
Location: 3380th Technical School, 
Keesler AFB, MS.
Length: 3 weeks (90 hours).
Exhibit Dates: 7/75-12/75.
Objectives: To train officers to perform 
the duties of surveillance officers at Bal-
listic Missile Early Warning System (BMEWS) 
sites.

AF-2203-0012

NUCLEAR WEAPONS SPECIALIST (MINUTEMAN III RE-ENTRY SYSTEM)

Course Number: 3AZR46350-1.
Location: School of Applied Aerospace 
Sciences, Lowry AFB, CO; 3415th Techni-
cal School, Lowry AFB, CO.
Length: 8-10 weeks (258-300 hours).
Exhibit Dates: 3/70-12/73.
Objectives: To train personnel as nuclear 
weapons specialists (Minuteman III re-entry 
system).
Instruction: Lectures and practical exer-
cises in the duties of nuclear weapons spe-
cialists (Minuteman III re-entry system), 
including safety and security; Minuteman III 
missile and re-entry system orientation; re-
entry system and re-entry vehicle compo-
nent purpose; function and description; 
engine operation; inspection, adjustment, 
and alignment; test set theory, operation, 
description, adjustment, troubleshooting 
and repair; ablative material and cork in-
spection and repair procedures; and 
re-entry system disassembly, assembly, check-
out, repair and reconfiguration.
Credit Recommendation: No credit 
because of the limited specialized nature of 
the course (6/74).

AF-2203-0013

MISSILE LAUNCH OFFICER WS-133B

Course Number: 3OBFR1821H; 
3OBFR1821G-1.
Location: 3345th Technical School, 
Chamute AFB, IL.
Length: 4-5 weeks (120-138 hours).
Exhibit Dates: 1/65-7/70.
Objectives: To train officers as WS-133B 
missile launch officers.
Instruction: Lectures and practical ex-
cises in commanding, controlling, and 
monitoring the WS-133B system, including 
orientation and systems introduction, con-
trol and monitoring system, communica-
tions, and missile procedures training.
Credit Recommendation: No credit 
because of the limited specialized nature of 
the course (6/74).

AF-2203-0014

GUIDED MISSILE OPERATIONS STAFF 
OFFICER, IM-99

Course Number: OTS1811-1.
Location: 3345th Technical School, 
Chamute AFB, IL.
Length: 4 weeks (120 hours).
Exhibit Dates: 5/61-12/68.
Objectives: To train officers to perform as 
guided missile operations staff officers.
Instruction: Lectures and practical exer-
cises in all areas of the Bomarc weapon 
system and the relationship of SAGE in the 
tactical employment of the weapon system,
including weapons direction function of SAGE; air surveillance; SAGE display equipment; data link; and digital information; IM-99A weapon system familiarization, mechanical systems, command system and beacon familiarization, flight control system; test firing, armaments, and weapon system maintenance concept; IM-99B familiarization, mechanical systems, command system and guidance beacon familiarization, flight control system, target seeker, armaments, weapon control equipment, familiarization, weapons support equipment and maintenance, and safety precautions.

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

AF-2203-0015
WEAPONS MECHANIC (SAC)
Course Number: 3ABR46230-3
ABR46230-3
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 3-4 weeks (12-132 hours)
Exhibit Dates: 5/68-12/73.
Objectives: To train personnel to perform space surveillance and tracking duties in BMEWS. Course includes space systems, basic orbital calculations, and tracking radar principles.

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

AF-2203-0020
BMEWS SURVEILLANCE OFFICER
Course Number: 3AZR2035A-1
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (108 hours)
Exhibit Dates: 5/68-12/73.
Objectives: To train commissioned officers to perform as surveillance officers in the Ballistic Missile Early Warning System (BMEWS).

Instruction: Lectures and practical exercises in the duties of a surveillance officer in BMEWS. Course includes space systems, space programs, basic orbital calculations, and tracking radar principles.

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

AF-2203-0021
SPACETRACK SURVEILLANCE OFFICER
Course Number: 30ZR2035A-2
Location: 3380th Technical School, Keesler AFB, MS.
Length: 4 weeks (108 hours)
Exhibit Dates: 5/68-12/73.
Objectives: To train commissioned officers to perform as spacetrack surveillance officers.

Instruction: Lectures and practical exercises in the duties of spacetrack surveillance officers. Topics include radar systems (basic fundamentals only), look-angle computations, tracking, and mission planning.

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

AF-2203-0022
AEROSPACE MUNITIONS OFFICER
CONVENTIONAL MUNITIONS REFRESHER
Course Number: 30ZR4625 A-3
Location: 3380th Technical School, Lackland AFB, CO.
Length: 4 weeks (102-132 hours)
Exhibit Dates: 3/66-12/73.
Objectives: To train commissioned officers in nuclear munitions operations in nonnuclear munitions. Course includes principles of space surveillance and tracking, and nuclear and nonnuclear munitions, including explosive airmonitions; small arms and gun ammunitions; propellant-actuated devices; impulse ejection, bullet ejection, and engine starter cartridges; aircraft bombs and fuzes, tactical and air defense missiles, aircraft rockets, and related explosive components; chemical, biological, and pyrotechnic armammuns; supply, storage, handling, and loading of ammunitions; management of storage activities; and release systems and munitions loading.

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

AF-2203-0023
MISSILE COMBAT CREW (CGM-13B, LAUNCH)
Course Number: 3AZR31000; OZR31000
Location: 3380th Technical School, Lackland AFB, TX.
Length: 12 weeks (348-360 hours)
Exhibit Dates: 9/66-12/73.
AF-2203-0024

**MISSILE OFFICER (T&A), WS-133 A-M**

Course Number: 30ZFR31246.2

Location: 3345th Technical School, Chanute AFB, IL

Length: 3 weeks (90 hours).

Exhibit Dates: 5/65-12/68.

Objectives: To train WS-133A target and alignment officers to perform as WS-133A-M missile target and alignment officers.

Instruction: Lectures and practical exercises in WS-133A-M missile systems, including weapon system familiarization, test equipment, radio data flow, targeting, guidance, control and system operation, code functions, launch control and status system cable data flow, and alignment procedures and equipment.

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

AF-2203-0025

**MISSILE OFFICER (CGM-13B)**

Course Number: OZR3121N.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 6 weeks (180 hours).

Exhibit Dates: 5/65-12/68.

Objectives: To train officers as CGM-13B missile officers.

Instruction: Lectures and practical exercises in the duties of CGM-13B missile officers. Includes supervision of missile maintenance activities, hydraulic power set, hydraulic package test set and flight controls test set, engine checker and power supply, operation of various modules, operation and maintenance of the guidance system checker and associated equipment, and test equipment maintenance.

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

AF-2203-0026

**SMALL ARMS GUNSMITH SPECIALIST**

Course Number: ABR46231.

Location: 3415th Technical School, Lowry AFB, CO.

Length: 11 weeks (300 hours).

Exhibit Dates: 10/59-12/68.

Objectives: To train airman as small arms gunsmith specialists.

Instruction: Lectures and practical exercises in small arms gunsmith operations, including hand and shoulder weapons, installation security weapons and associated equipment, test firing and weapon maintenance, and troubleshooting and correction of specific small arms equipment.

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

AF-2203-0027

**INTERCEPT DIRECTION (SAGE)**

Course Number: OZR1744B-3.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 8 weeks (240 hours).

Exhibit Dates: 8/60-12/68.

Objectives: To train officers as intercept directors for SAGE installations.

Instruction: Lectures and practical exercises in duties of intercept directors, including communications, symbology, SAGE operations, computer introduction, digital information displays, weapons procedures, mission types, air defense artillery, SAGE radars, positional intercept direction, data sources and processing, identification and mapping, and training and battle simulation.

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

AF-2203-0028

**IDENTIFICATION/AIR TACTICS (SAGE)**

Course Number: OZR1744B-2.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 8 weeks (240 hours).

Exhibit Dates: 8/60-12/68.

Objectives: To train officers as identification or air tactics officers for SAGE installations.

Instruction: Lectures and practical exercises in the duties of identification on air tactics officers, including SAGE system fundamentals, communications, symbology interpretation, SAGE identification and air tactics branch operations, air surveillance, and weapons.

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

AF-2203-0029

**INTERCEPT DIRECTION (SAGE)**

Course Number: ABR27370B-4.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 6-8 weeks (180-240 hours).

Exhibit Dates: 8/64-12/68.

Objectives: To train airmen as intercept technicians in SAGE installations.

Instruction: Lectures and practical exercises in the duties of intercept technicians in SAGE installations, including communications, symbology interpretation, test equipment and procedures, positional training, computer processing, surveillance section, and weapons section.

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

AF-2203-0031

**SENTRY DOG REPLACEMENT**

Course Number: ATS77130A-1; ATS77130-1.

Location: 3275th Technical School, Lackland AFB, TX.

Length: 12 weeks (300 hours).

Exhibit Dates: 11/63-12/68.

Objectives: To train experienced dog handlers to train dogs for sentry duty.

Instruction: Practical exercises in the training of dogs for sentry duty. The dog is trained to limit his responses to one handler while being familiarized with gun, transportation modes, guard employment, and attack behavior.

Credit Recommendation: No credit because of the technical specialized of the course (7/74).

AF-2203-0032

**MORSE SYSTEMS OPERATOR**

Course Number: 3ABR29331.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 21-24 weeks (650-720 hours).

Exhibit Dates: 6/70-12/73.

Objectives: To train enlisted personnel as Morse system operators.

Instruction: Lectures and practical exercises in Morse system operation, including typing, international Morse code transcription, operation of radio receivers and frequency-measuring devices, basic traffic analysis techniques, monitoring and transmitting various types of radio traffic, and communications principles and basic electronics (transmitters, wave propagation and antennas, and receivers and associated equipment).

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

AF-2203-0033

**AIRBORNE RADIO OPERATOR**

Course Number: AB29332; AB29333.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 15-19 weeks (450-540 hours).

Exhibit Dates: 5/54-12/68.

Objectives: To train basic airmen to operate, maintain, and adjust airborne radio equipment and to carry out air-to-air and air-to-ground communications by voice and international Morse code.

Instruction: Lectures and practical exercises in the operation, maintenance, and adjustment of airborne radio equipment and air-to-air and air-to-ground communications by voice and international Morse code, including international Morse code transmitting procedures, receiver and transmitter tuning, electrical and radio fundamentals, radio wave propagation and antennas, navigational aids, airborne radio equipment, radio telegraph procedures, radio telephone procedures, flight communications, and countermeasures (anti-jamming) techniques.

Credit Recommendation: No credit because of the technical specialized of the course (7/74).

AF-2203-0034

**GROUND RADIO OPERATOR (VOICE)**

Course Number: ABR29330; AB29331.

Location: 3380th Technical School, Keesler AFB, MS.

Length: 11-19 weeks (300-540 hours).

Exhibit Dates: 8/64-12/73.

Objectives: To train enlisted personnel to operate ground-based radio equipment.
AF-2203-0036
MISSILE LAUNCH OFFICER, WS-133A-M
Course Number: 30BR1821G-1; OBR1821G-1.
Location: 324th Technical School, Chanute AFB, IL.
Length: 4 weeks (108 hours).
Exhibit Dates: 6/66-7/70.
Objectives: To train commissioned officers to command, control, and monitor operations at a missile launch site.
Instruction: Lectures and practical exercises in the duties of a missile launch officer. Topics include weapons system familiarization, launch command, auxiliary systems, publications, safety procedures, and general operational concerns of a missile launch site.
Credit Recommendation: No credit because of the limited specialized nature of the course (12/68).

AF-2203-0037
.50 CALIBER MACHINEGUN
Course Number: 3A2R1150-Z.
Location: School of Applied Aerospace Sciences, Lackland AFB, TX.
Length: 2 weeks (76 hours).
Exhibit Dates: 7/73-12/73.
Objectives: To train security police to use .50 caliber machineguns.
Instruction: Lectures and practical exercises in the use of .50 caliber machineguns, including the maintenance of .50 caliber machineguns and associated equipment; crew drills; tactical employment; and emergency destruction procedures.
Credit Recommendation: No credit because of the limited specialized nature of the course (7/74).

AF-2203-0039
MUNITIONS MAINTENANCE SPECIALIST (MUNITIONS SPECIALIST)
Course Number: 3ABR6130; AB46130.
Location: School of Applied Aerospace Sciences, Lowry AFB, CO; 341st Technical School, Lowry AFB, CO.
Length: 6-16 weeks (200-420 hours).
Exhibit Dates: 10/54-12/73.
Objectives: To train enlisted personnel to inspect, receive, assemble, and handle explosive, incendiary, and toxic air munitions.
Instruction: Lectures and practical exercises in aerospace munitions introduction; explosives, aircraft rockets, missiles, and chemical munitions; bombs, dispensers, and accessories; munitions-handling and transportation equipment; and munitions maintenance and storage.
Credit Recommendation: No credit because of the limited nature of the course (8/74).

AF-2203-0040
1. OFFICER CANDIDATE SCHOOL
2. USAF OFFICER CANDIDATE SCHOOL
Course Number: Version 1: 04M0101. All Versions: OC-00100.
Location: Air Training School, Lackland AFB, TX.
Objectives: To train officer candidates to develop the professional knowledge, character, and personal attributes and attitudes essential to being an officer.
Instruction: Lectures and practical exercises in the duties of an officer. Course includes political geography, international affairs, introduction to astronautics, communications, Air Force organization, leadership, human relations, moral dynamics, and selected military subjects.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (8/74); in the upper-division baccalaureate category, 3 semester hours in political science, 3 in business organization and management, and credit in advanced military at institutions which regularly offer such credit (12/68). Version 2: In the lower-division baccalaureate/associate degree category, 3 semester hours in business organization and management (8/74); in the upper-division baccalaureate category, 3 semester hours in business organization and management, and credit in advanced military at institutions which regularly offer such credit (12/68).

AF-2203-0041
1. SQUADRON OFFICER SCHOOL
2. SQUADRON OFFICER SCHOOL
(SQUADRON OFFICER COURSE)
Course Number: None.
Location: Air University, Maxwell AFB, AL.
Objectives: To prepare selected junior officers for leadership and management roles, required of Air Force personnel in a dynamic domestic and international political environment.
Instruction: Seminars, lectures, and field exercises in communication, leadership, management, group dynamics, foreign policy and military strategy. The communication area develops the individuals skills to solve problems logically and effectively. The leadership and management area emphasizes attributes, principles, techniques and concepts required in the utilization of men, money and material. Human relations, individual and group behavior patterns and motivation are emphasized. The foreign policy and military strategy area emphasizes the capabilities and employment concepts of military force, and includes a compassion for major political systems and international implications of military power. Student-centered instructional activities include role playing, video and computer-assisted instruction and programmed learning.
Credit Recommendation: No credit because of the limited nature of the course (7/74).

AF-2203-0042
MISSILE LAUNCH OFFICER, WS-133A
(MISSILE LAUNCH OFFICER, SM-80)
Course Number: 30BR1821G; OBR1821G; OZ81821G; OTS1824B-5.
Location: 334th Technical School, Chanute AFB, IL.
Length: 3-4 weeks (102-120 hours).
Exhibit Dates: 6/62-12/73.
Objectives: To train Air Force officers for the duties of a Missile Launch Officer.
Instruction: Course covers weapons system familiarization; initiation of launch command; command network tests; interconnect network status; launch security; and emergency procedures on launch control equipment.
Credit Recommendation: No credit because of the limited nature of the course (7/74).

AF-2203-0043
WEAPONS CONTROLLER (SAGE)
Course Number: OBR1741B.
Location: 2380th Technical School, Keesler AFB, MS.
Length: 14 weeks (408-420 hours).
Exhibit Dates: 10/61-12/68.
Objectives: To train selected Air Force officers to assume the duties of a tracking officer, identification officer, and intercept director in an air defense direction center.
Instruction: Covers fundamentals of air defense; principal features of manual and semi-automatic air defense systems; aspects of weather, air traffic control, communications, radar operations, and electronic countermeasures; processing data; and the purpose and use of direction center equipment.
Credit Recommendation: No credit because of the limited nature of the course (7/74).

AF-2203-0044
AIR WEAPONS
Course Number: None.
Location: Air Command and Staff College, Maxwell AFB, AL.
Length: 7 weeks (308 hours).
Exhibit Dates: 1/56-12/68.
Objectives: To provide Air Force officers with a working knowledge of Air Force weapons and delivery systems.
Instruction: Lectures and seminars covering fundamentals of probability; ordnance weapons and employment; biological and chemical weapons and employment; nuclear weapons and employment; and delivery systems. Situational exercises illustrate procedures covered in the lectures.
Credit Recommendation: No credit because of the limited nature of the course (7/74).
AF-2203-0045

WEAPONS CONTROLLER (412L Systems)
Course Number: Version 1: 3OLR1741C; Version 2: OLR1741C; GZ2R1744C
Location: 338th Technical School, Keesler AFB, MS.
Length: Version 1: 4 weeks (108 hours); Version 2: 6-7 weeks (210-210 hours).
Objectives: To train selected officers to serve in an air weapon control system environment.

Instruction: Lectures and practical exercises in weapon systems (412L)—air surveillance, identification, situation projections, and jamming and tracking; and weapons control, including equipment, data flow, information displays, computer programs, and jamming and tracking; and weapons control, including equipment, data flow, information displays, computer programs, Army weapons integration, and console operations.

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

AF-2203-0046

CONVENTIONAL WEAPONS APPLICATION (WEAPONS EFFECTS)
Course Number: 3OZR8081; GZBR8081.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 4 weeks (108-120 hours).
Exhibit Dates: 2/66-12/73.
Objectives: To train personnel in intelligence fields in targeting and weaponry germane to the Southeast Asian environment.

Instruction: Lectures and practical exercises in weapon systems orientation, nuclear and explosive safety, duties on a launch crew, installation checkout, and troubleshooting procedures for warhead.

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

AF-2203-0047

NUCLEAR WEAPONS SPECIALIST (CGM-13B, LCH PREP)
Course Number: AZR46330-1.
Location: 3415th Technical School, Lowry AFB, CO.
Length: 3 weeks (90 hours).
Exhibit Dates: 3/67-12/68.
Objectives: To train airmen to perform as nuclear weapons specialists.

Instruction: Lectures and practical exercises in weapon systems orientation, nuclear and explosive safety, duties on a launch crew, installation checkout, and troubleshooting procedures for warhead.

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

AF-2203-0048

WEAPONS CONTROLLER (MANUAL)
Course Number: 3OBR1741A.
Location: 338th Technical School, Keesler AFB, MS; 3625th Technical School, Tyndall AFB, FL.
Length: 6-20 weeks (240-320 hours).
Exhibit Dates: 6/68-12/73.
Objectives: To train officers as weapons controllers.

Instruction: Lectures and practical exercises in manual radar gear operations, air mass problem solution, radio/telephone procedures, intercept tactics, interceptor capabilities, fire control systems and weapons, and organization and operation of an air defense facility.

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

AF-2203-0049

PRIOR SERVICE MILITARY TRAINING
Course Number: BT00014.
Location: 3235th Technical School, Lackland AFB, TX.
Length: 3 weeks (120 hours).
Exhibit Dates: 2/66-12/68.
Objectives: To provide further development of skills and knowledge to airmen with prior military service.

Instruction: Lectures covers military law, security, drill, weapons and marksmanship, and history of the Air Force.

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

AF-2203-0050

FLAK INTELLIGENCE OFFICER
Location: 3415th Technical Training Group, Lowry AFB, CO; 3750th Technical Training Group, Sheppard AFB, TX.
Length: 7 weeks (180-210 hours).
Exhibit Dates: 1/64-1/66.
Objectives: To train officers in the principles of flak intelligence.

Instruction: Lectures and practical exercises in flak intelligence and analysis to include antiaircraft artillery and SAM matériel, gunnery, and tactics as related to flak analysis.

Credit Recommendation: No credit because of the military nature of the course (10/75).

DD-0026-0001

ARMED FORCES STAFF COLLEGE
Course Number: Version 1: 570-F2.
Location: Arnold Air Force Staff College, Norfolk, VA.
Length: Version 1: 21 weeks (634 hours); Version 2: 21 weeks (548-642 hours).
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: 1 credit; Version 2: 1 credit.

DD-0504-0002

ADVANCED INFORMATION SPECIALIST (JOURNALIST)
(BASIC MILITARY JOURNALIST)
Course Number: ABA79130-1(USA1); 570-71Q20; A-570-0011(USA1); 28-R-701.1.
Location: Defense Information School, Ft. Benjamin Harrison, IN; Defense Information School, Ft. Slocum, NY.
Length: Version 1: 10 weeks (344 hours); Version 2: 9-10 weeks (356-440 hours).
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, photography, including the taking, processing, and printing of photographs; radio and television writing; speech; international relations and government; public affairs. Print media, broadcast media, and photography are emphasized.

Credit Recommendation: Version 1: Pending evaluation; Version 2: In the voca- tional certificate category. 3 semester hours in mass media (12/73); in the lower-divi- sion 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. The amount of transfer credit is based on the applicant's future academic goals and regulations of the admitting institution on transfer credit.

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history and national security policy, 3 in communicative arts (8/74); in the graduate degree category, 4 in management and systems analysis (8/74).

NOTE: Credit recommendations are based on an on-site evaluation. Recommendations of 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.

Length: Version 1: 3 weeks (116 hours); Version 2: 4 weeks (352 hours).
Objectives: To provide advanced training in the planning, supervision, and coordination of information activities for selected noncommissioned and petty officers who will perform duties as assistants to the officer-in-charge of an 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 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). Version 2: In the vocational certificate category, 3 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 on the basis of institutional evaluation (12/68).

DD-0504-0003

NEWSPAPER EDITOR

Course Number: 370-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, style, design, 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

(Credit Specialization)

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 production 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 social studies, 1 in journalism (12/68).

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: 4/54–12/68.

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 procedures; advisement principles; practical exercises in newswriting 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 media (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 (360 hours).

Exhibit Dates: 4/54–12/68.

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 mechanical aids, basic photographic techniques, including camera operation, film processing, photo printing, picture selection, film types and exposures, and picture story assignments; civil press operation, organization, and philosophy; newswriting; preparation of material for radio, citizenship, history, government, and international affairs.

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 communications (12/73); in the upper-division baccalaureate category, 2 semester hours in social studies, 1 in oral communications (12/68).

DD-0504-0007

PUBLIC INFORMATION OFFICER

Course Number: 28-O-5.

Location: Defense 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 mechanical aids; basic photographic techniques, including camera operation, film processing, photo printing, picture selection, film types and exposures, and picture story assignments; civil press operation, organization, and philosophy; newswriting; preparation of material for radio, 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 (12/68).
DD-0504-0009

1. INFORMATION OFFICER
2. INFORMATION OFFICER BASIC

Course Number: All Versions 7G-5505.
Location: Defense Information School, Ft. Benjamin Harrison, IN.

Objectives: To train commissioned officers as information specialists with competency in journalistic writing, editing, basic photography, radio and television writing and announcing, and public speaking.

Instruction: Lectures and practical exercises in the duties of an information specialist. Course includes journalistic writing and editing, basic photography, radio and television writing and announcing, public speaking, public information techniques and community relations, and study of international press and government attitudes.

Credit Recommendation: Version 1: Pending evaluation. Version 2: In the vocational certificate category, 6 semester hours in journalism (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in journalism (7/74); in the upper-division baccalaureate category, 3 semester hours in journalism on the basis of institutional examination (7/74). Version 3: In the vocational certificate category, 6 semester hours in journalism (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in journalism (7/74); in the upper-division baccalaureate category, 3 semester hours in journalism (7/74); in the lower-division baccalaureate/associate degree category, 3 semester hours in journalism (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in broadcast journalism (12/73); in the upper-division baccalaureate category, 3 semester hours in broadcast journalism (12/73); in the lower-division baccalaureate/associate degree category, 1 semester hour in broadcast journalism (12/73); in the upper-division baccalaureate category, 1 semester hour in radio and television programming (12/68).

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 applied journalism (print journalism and photojournalism) in public affairs (policy and plans, speech and research), radio and television, and international relations and government.

Credit Recommendation: Pending evaluation.

DD-0505-0001

1. INFORMATION SPECIALIST (BROADCASTER)
2. INFORMATION SPECIALIST (BROADCASTER)
3. BROADCAST SPECIALIST
4. BROADCAST SPECIALIST (AND TELEVISION PRODUCTION SPECIALIST)


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

Exhibit Dates: 10/76-Present.


Objectives: To train selected enlisted personnel to perform as broadcasters for military, radio or television 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: Version 1: Pending evaluation. Version 2: In the vocational certificate category, 6 semester hours in broadcast journalism (12/73); in the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast journalism (12/73); in the upper-division baccalaureate category, 3 semester hours in broadcast journalism (12/73); in the upper-division baccalaureate/associate degree category, 3 semester hours in broadcasting (12/73); in the upper-division baccalaureate category, 3 semester hours in radio and television programming (12/68).

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 applied journalism (print journalism and photojournalism) in public affairs (policy and plans, speech and research), radio and television, and international relations and government.

Credit Recommendation: Pending evaluation.

DD-0505-0002

BROADCAST OFFICER

Course Number: 7G-5522 (USA); 7G-0001 (USN).

Location: Defense Information School, Ft. Benjamin Harrison, IN.

Length: 7 weeks (257 hours). Exhibit Dates: 7/74-Present.

Objectives: To train commissioned officers, warrant officers, and civilians in the principles, techniques, and skills of broadcast officers, including management of an American Forces Radio and Television Service (AFRTS) outlet, management of broadcast operations in a public affairs office, and management of stateside closed-circuit broadcast facilities.

Instruction: Students learn military broadcast management, supervision, methods, techniques, and operations of military broadcast facilities; topics include radio and television, international relations and government, speech and research, and public affairs.

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)
(GREEK)
(HUNGARIAN)
(ITALIAN)
(JAPANESE)
(KOREAN)
(NORWEGIAN)
(PERSIAN)
(RUSSIAN)
(SERBO-CROATIAN)
(SPANISH)
(SWEDISH)
(TURKISH)

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 in which the language is 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, extending into the upper-
division baccalaureate category, 18 semester hours in ALBANIAN for the 46-week course; 18 in ARABIC for the 46-week course; 18 in BULGARIAN for the 46-week course; 26 in CHINESE—CANTONESE for the 46-week course; 26 in CHINESE—MANDARIN for the 46-week course; 18 in CZECH for the 46-week course; 27 in DANISH for the 46-week course; 21 in DANISH for the 23-week course; 15 in DANISH for the 23-week course; 15 in FRENCH for the 23-week course; 15 in FRENCH for the 23-week course; 15 in GERMAN for the 23-week course; 15 in GERMAN for the 23-week course; 15 in GREEK for the 23-week course; 18 in GREEK for the 46-week course; 18 in HUNGARIAN for the 46-week course; 15 in ITALIAN for the 23-week course; 26 in ITALIAN for the 23-week course; 21 in KOREAN for the 47-week course; 21 in KOREAN for the 47-week course; 27 in LITHUANIAN for the 47-week course; 15 in MALAY for the 36-week course; 15 in MALAY for the 36-week course; 15 in NORWEGIAN for the 46-week course; 15 in NORWEGIAN for the 23-week course; 15 in NORWEGIAN for the 23-week course; 15 in PORTUGUESE for the 23-week course; 18 in PORTUGUESE for the 23-week course; 15 in PORTUGUESE for the 23-week course; 15 in POLISH (PORTUGUESE) for the 23-week course; 15 in POLISH (PORTUGUESE) for the 23-week course; 15 in RUSSIAN for the 47-week course; 15 in RUSSIAN for the 23-week course; 15 in SERBO-CROATIAN for the 46-week course; 15 in SERBO-CROATIAN for the 46-week course; 15 in SERBO-CROATIAN for the 23-week course; 15 in SERBO-CROATIAN for the 23-week course; 15 in SPANISH for the 23-week course; 15 in SPANISH for the 23-week course; 15 in SWEDISH for the 23-week course; 15 in SWEDISH for the 23-week course; 18 in TURKISH for the 46-week course; 18 in TURKISH for the 46-week course; 18 in VIETNAMESE—SAIGON DIALECT for the 47-week course; 21 in VIETNAMESE—SAIGON DIALECT for the 47-week course; 21 in VIETNAMESE—SAIGON DIALECT for the 47-week course; 21 in VIETNAMESE—SAIGON DIALECT for the 47-week course.

Course Number: None.
Location: West Coast Branch, Presidio of Monterey, CA.
Length: 24-47 weeks.

Objective: To train military personnel in the interpretation and translation of 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. (The area studies are taught in the foreign language.)

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 in which the language is spoken. NOTE: 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 a language. 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, extending into the upper-
division baccalaureate category, 21 semester hours in ALBANIAN for the 47-week course; 27 in ARABIC for the 47-week course (21 semester hours of the course were taken prior to 1970); 21 in BULGARIAN for the 47-week course; 27 in BULGARIAN for the 47-week course; 21 in DANISH for the 47-week course; 15 in Dari for the 24-week course; 15 in Dari for the 24-week course; 15 in FINEISH for the 47-week course; 15 in FINEISH for the 47-week course; 15 in GERMAN for the 47-week course; 15 in GERMAN for the 47-week course; 15 in GREEK for the 47-week course; 15 in GREEK for the 47-week course; 15 in HUNGARIAN for the 47-week course; 15 in HUNGARIAN for the 47-week course; 18 in INDOONESIAN for the 36-week course; 21 in RUSSIAN for the 47-week course; 18 in SWAHILI for the 37-week course; 15 in SWEDISH for the 24-week course; 21 in TURKISH for the 47-week course; 18 in VIETNAMESE—HANOI DIALECT for the 47-week course; 21 in VIETNAMESE—HANOI DIALECT for the 47-week course; 21 in VIETNAMESE—HANOI DIALECT for the 47-week course.

Location: West Coast Branch, Presidio of Monterey, CA.
Length: 23-50 weeks.
Exhibit Dates: 1/57-Present.

Objective: To train students to comprehend the designated language as spoken by a foreign nation.

Instruction: The Aural Comprehension Courses were established at the West Coast Branch on July 1, 1964 (except for the courses in Russian, which were offered previously.) Although some reading and
writing is included in these courses, they are designed primarily to teach students to comprehend the language as spoken by a foreign national. The spoken language is emphasized as a necessary corollary for developing an interpretation skill.

Credit Recommendations: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 15 semester hours in ALBANIAN for the 37-week course; 15 in ARABIC for the 47-week course; 15 in BULGARIAN for the 37-week course; 12 in BURMESE for the 37-week course; 12 in CHINESE—MANDARIN for the 33-week course, 15 for the 37-week course; 18 for the 47-week course, and 12 for the 32-week SPECIAL course; 15 in CZECH for the 37-week course; 15 in FRENCH for the 24-week course; 12 in GERMAN for the 24-week course; 15 in HUNGARIAN for the 37-week course; 15 in INDONESIAN for the 37-week course; 15 in JAPANESE for the 37-week course; 12 in KOREAN for the 37-week course; 15 in POLISH for the 37-week course; 12 in PORTUGUESE for the 24-week course; 15 in ROMANIAN for the 37-week course; 15 in RUSSIAN for the 23- or the 24-week course; 15 in SERBO-CROATIAN; 15 in TURKISH for the 37-week course; 15 in VIETNAMESE—SAIGON DIALECT for the 37-week course, 18 for the 47-week course; 12 in THAI for the 37-week course; 15 in TURKISH for the 37-week course; 15 in VIETNAMESE—HANOI DIALECT for the 37-week course, 18 for the 47-week course (8/74). NOTE: Since the Aural Comprehension Courses do not place equal stress on the four language skills, they are recommended for less credit than the Basic Courses. It will be noted that the maximum credit recommended for a 37-week Aural Comprehension Course varies from 12 to 18 semester hours. This credit variation is based primarily upon the higher reading and writing content in those courses recommended for 15 and 18 semester hours. A 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 chiefly upon the length of the course and 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 Swahilii); (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, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian and Vietnamesi); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

Department of Defense 1-241

Defense Language Institute Short Basic Courses

Language:

- ARABIC
- FRENCH
- GERMAN
- GREC
- INDONESIAN
- ITALIAN
- JAPANESE
- KOREAN
- PERSIAN
- PORTUGUES
- ROMANIAN
- SPANISH
- THAI
- TURKISH
- VIETNAMESE—SAIGON DIALECT

Course Number: None.

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

Length: 6-24 weeks.

Exhibit Dates: 1/54-Present.

Objectives: To train officer and enlisted personnel from each branch of the armed services, and certain civilian personnel, in the comprehension, speaking, reading, and writing of the target language, plus composition and interpretation skill.

Note: The Short Basic Courses at the West Coast Branch are abbreviated versions of the Basic Courses, using the same instructional materials. The difference in these recommendations can be attributed to the fact that the Basic Courses are "more academically suitable" than the Aural Comprehension Courses (i.e., they have a higher reading and writing content).

Credit Recommendation: In the upper-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 8 semester hours in ARABIC for the 12-week course, 15 for the 24-week course; 8 in FRENCH for the 12-week course; 8 in GERMAN for the 12-week course, 10 for the 16-week course; 8 in GREEK for the 12-week course; 8 in INDONESIAN for the 12-week course; 8 in ITALIAN for the 12-week course; 8 in SPANISH for the 11- or 12-week course; 8 in THAI for the 12-week course, 10 for the 16-week course, and 15 for the 24-week course; 8 in TURKISH for the 12-week course; 8 in VIETNAMESE—SAIGON DIALECT for the 6-week course, 8 for the 8- or 12-week course, 10 for the 16-week course, 15 for the 24-week course (18/74). 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 the 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 Swahilii); (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, Serbo-Croatian, Slovenian, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

DD-0602-0005

Defense Language Institute Extended or Basic-Intermediate Courses

Language: MANDARIN

Objectives: To train military personnel to a higher level of proficiency in the interpretation and translation of the designated language than is provided for in the Short Basic Courses and to provide, in the language, a somewhat wider knowledge of military, geographic, economic, historic, and political information of the country and/or area in which the language is spoken.

Instruction: BASIC-INTERMEDIATE COURSES

The designation "basic-intermediate" given by the military to the courses should not be confused with this term as used by civilian educational institutions. The Commission's consultants recommended as much as 40 semester hours for each course because of the material that the students are required to read and, in some cases, because of the characters to be learned and the level of the syntax. However, it is recognized that most civilian educational institutions would be reluctant to grant the full amount of credit recommended for the 74- to 75-week courses inasmuch as this would constitute a major in the language. It is further recognized that most colleges and universities would require some resident work in a major. Nevertheless, it was the consensus of the consultants that these programs correspond to college courses "directed to mastery of the language." In other words, the courses are the equivalent of beginning, intermediate, and advanced courses in the language, plus composition, advanced composition (i.e., learning to write correctly), conversation, and a semester's course in the civilization of the country or area. It should be noted that no creative writing or literature is given in these programs. EXTENDED COURSES: These courses, which range from 44- to 37-weeks in length, are attended by students who have
already completed a Basic or Aural Comprehension course. The primary objective of this add-on training is to improve language competency. For students in the Basic course, the audio-lingual skills were stressed, equal emphasis is put on all four language skills in the Extended 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 importance to language competency is the matter of area knowledge. The Extended Course treats in considerable depth all facets of the country's contemporary civilization, together with a study 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 24-week course; 40, for the 74- to 75-week course; 40 in VIETNAMESE for the 74-week course (8/74). In the graduate category, 18 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; 6 in VIETNAMESE for the 74- to 75-week course (8/74). 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 Swahili); (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, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

Location: West Coast Branch, Presidio of Monterey, CA.
Length: 16-37 weeks.
Exhibit Dates: 1/54-Present.
Objectives: 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 will undergo refinement through constant practice. All important structures are presumed to have been learned in the Basic Course; however, an extensive review is programmed, and new structures are taught functionally, as needed in dealing with the course content. Vocabulary count, customary indicator of the scope of a course, will increase rapidly and extensively. Active vocabulary is expected to double, and passive vocabulary to expand considerably. 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 importance to language competency is the matter of area knowledge. The Intermediate Course purports to treat in considerable depth all facets of the country's contemporary civilization, together with a study of the historical development of the area.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 18 semester hours in CHINESE—Mandarin for the 37-week course; 18 in RUSSIAN for the 37-week course (8/74). 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 Swahili); (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, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).

Location: West Coast Branch, Presidio of Monterey, CA.
Length: 37 weeks.
Exhibit Dates: 1/69-Present.
Objectives: To train selected Department of Defense personnel in foreign languages at a more advanced level of proficiency than is provided in Defense Language Institute Extended or Intermediate Courses; and to provide a wide knowledge of cultural, geographical, economic, historical, and political information on the area in which the language is spoken.

Instruction: The advanced course places equal emphasis upon the development of all four language skills. There is no specialized or technical terminology in the course. It includes a total vocabulary of approximately 4,000 terms, over and above that covered in previous courses, that cover all general, nontechnical communication situations that one would normally encounter in the country of the target language. The cultural complex within which the language is spoken is covered extensively: history, economics, geography, politics, military, ethnic groups, languages, attitudes, customs and mores of the people, etc.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, extending into the upper-division baccalaureate category, 18 semester hours in CHINESE—Mandarin for the 37-week course; 18 in RUSSIAN for the 37-week course (8/74). 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 Swahili); (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, Serbo-Croatian, Slovenian, Thai, Turkish, Ukrainian, and Vietnamese); and (3) the more difficult languages where the reading problem is complicated (Arabic, Chinese, Japanese, and Korean).
limited extent; the Refresher Course is designed to enable personnel to regain a basic competence in comprehension of the standard literary language.

Introduction: The Scientific Course includes instruction in Russian phonology and writing systems; oral exercises in elementary speech patterns; Russian structural patterns; pronunciation; recognition of scientific terminology. The Refresher Course is 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) on the basis of institutional evaluation (8/74).

DD-0602-0009
DEFENSE LANGUAGE INSTITUTE
COURSES—EAST COAST BRANCH
(Arabic)
(CHINESE—MANDARIN)
(French)
(GERMAN)
(ITALIAN)
(PORUGUESE)
(RUSSIAN)
(Spanish)
(TURKISH)
(VIETNAMESE—HANOI DIALECT)
(VIETNAMESE—SAIGON DIALECT)

Course Number: None.
Location: East Coast Branch, Washington, DC.
Length: 8-60 weeks.
Exhibit Dates: 1/54-Present.
Objectives: The Intensive Courses are designed to make military personnel thoroughly at ease 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, 18 semester hours in introduction to computer fundamentals, source data collection, data communications, systems analysis, main memory and data representation, codes, fixed-word-length machine concepts, higher-level languages, and ADP system management.

DD-0602-0010
DEFENSE LANGUAGE INSTITUTE SUPPORT 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: 12-47 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, historical, and political information about the area in which the language is spoken; the Aural Comprehension Course is designed primarily 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: Basic 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.

DD-1402-0001
COMMAND AND CONTROL
Course Number: None.
Location: Department of Defense Computer Institute, Washington, DC.
Length: 3 weeks (105 hours).
Exhibit Dates: 5/69-Present.
Objectives: To provide personnel with an introduction to automatic data processing and computer technology, including survey of computers and peripheral equipment, computer fundamentals, source data collection, data communications, systems analysis, main memory and data representation, codes, fixed-word-length machine concepts, higher-level languages, and ADP system management.

Credit Recommendation: In the vocational certificate category, 3 semester hours in principles of data processing (7/74); in the upper-division baccalaureate/associate degree category, 3 semester hours in principles of data processing (7/74), in the upper-division baccalaureate/associate degree category, 3 semester hours in principles of data processing (7/74), in the upper-division baccalaureate category, 2 semester hours in introduction to computer principles (12/68).
INTRODUCTION TO COMPUTER TECHNOLOGY
Course Number: None.
Department of Defense Computer Institute, Washington, DC.
Length: 2 weeks (65 hours).
Exhibit Dates: 8/77-Present.

This course is designed to provide an educational background for middle-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 implications; the basics of computer hardware and software; systems development management considerations, planning and design; and an introduction to operations research and analysis 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).

DD-1402-0003
COMPUTER ORIENTATION FOR INTERMEDIATE EXECUTIVES
Course Number: None.
Location: Department of Defense Computer 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 implications; the basics of computer hardware and software; systems development management considerations, planning and design; and an introduction to operations research and analysis 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).

DD-1511-0001
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: 52-104 weeks.
Exhibit Dates: 5/71-Present.

Objectives: To train officers in economic and political 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.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 30 semester hours to be apportioned by the receiving institution in the areas of history, political science, international relations, and management (8/74). Version 2: In the upper-division baccalaureate category, 15 semester hours in political science (including international relations), 9 in recent and contemporary history, 3 in business organization and management, 3 in speech (12/68).
DD-1511-0003  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: 4 years.

Exhibit Dates: Version 1: 8/69-Present.

Objectives: To train officers in the political, military, social, economic, and industrial aspects of national security, in resources management, and in the command, staff, and policy-making functions of the national and international security structure.

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

Credit Recommendation: Version 1: In the upper-division baccalaureate category, 5 semester hours in political science, 3 in international relations, 3 in social science, 3 in national economic problems and policies, 3 in principles of economic analysis, 3 in quantitative analysis, 6 in management, 3 in public administration, 0-3 in research and thesis, 4 in governmental management, 6 in national economic problems and policies, 0-6 in research and thesis (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Credit granted for these should be contingent upon the graduate school's evaluation of the research paper. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. Version 2: In the upper-division baccalaureate category, 3 semester hours in political science, 3 in international relations, 3 in social science, 3 in national economic problems and policies, 3 in principles of economic analysis, 3 in quantitative analysis, 6 in management, 3 in public administration, 0-3 in research and thesis, 4 in governmental management, 6 in national economic problems and policies, 0-6 in research and thesis (8/74). NOTE: Credit recommendation is based on an on-site evaluation. Credit for these should be contingent upon the graduate school's evaluation of the research paper. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit.

Version 3: 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 (8/74).

Version 4: 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 (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, 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).

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and military factors. The students learn to apply the methodology of international cooperation in basic aspects of continental security planning at higher levels of general and military strategy. The program include numerous lectures by outside experts, seminars and symposia for discussion of current materials presented, study committees, and the preparation of individual research papers.

Credit Recommendation: In the graduate degree category, 0 semester hours in international relations for students rated "very good" or "outstanding" (11/76).

DD-1512-0001  DEFENSE RACE RELATIONS INSTITUTE

Course Number: None.

Location: Defense Race Relations Institute, Patrick AFB, FL.


Exhibit Dates: Version 1: 8/74-Present.
Version 2: 10/72-7/74.

Objectives: To provide students with a foundation of knowledge on intergroup relations, cultural specificity, and an awareness of those processes that form social opinion. The program is also designed to prepare the participants as instructors in race relations and to provide them with management, planning and applications of skills needed in maintaining effective institutional human relations programs.

Instruction: Version 1: Lectures, seminars, readings, research, and in satisfactory performance of an on-site evaluation. Credit recommendation is based on an on-site evaluation. Credit for these should be contingent upon the graduate school's evaluation of the research paper. Recommendations of credit are maximum figures. The amount actually accepted for transfer depends upon the applicant's future academic goals and the regulations of the admitting institution on transfer credit. Version 2: Lectures, seminars, readings, and discussions in intergroup relations, social processes, behavioral sciences, minority studies, and instructional techniques, divided into five course blocks as follows: (1) The Individual and Society: interaction, including psychological theories of the self, and defense mechanisms; social significance of attitudes, stereotypes, the psychology of humor; and race and individual differences. (2) Racism and Ways to Combat It, including military racial disorders, the Kerner Commission report, racism in U.S. history and contemporary life; the nature of prejudice; signs and symbols in communication and their role in racial conflict, institutional racism, racial issues (law enforcement, housing, employment, and education); racial polarization and separation; new white consciousness, contemporary white American culture and strategies for combating racism. (3) Group Dynamics, including introduction to group process, group formation, group facilitation, group management, and group decision making. (4) Group Membership, including examination of the role of the individual in groups; group decision making and the recognition of the basic role of the individual within a group, methods of approach; leadership functions in groups; recognition of group goal types; conditions affecting cohesive ness and conformity; and individual differences, examined through discussion on problems of communication, minority participation in policy and programs, changing the practice of group work, and establishing the values of integration. (4)

DD-1511-0004  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 in preparing students 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, economic, and military factors that contribute essential elements for the defense of the hemisphere.

Instruction: 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 administration, 3 in recent history. 3 in economics, 3 in geography (12/68).
- COURSE EXHIBITS

Educational Techniques, including guided discussion as a teaching method, information processing limitations; use of selective exposure, interpretation (attention), and retention of new material; training teaching aids; use of sociodrama as a teaching technique; lesson planning and educational preparations; student teaching exercises, instructional aids, and creative teaching (S) Minority Studies, including Afro-American history, migrant group, Appalachian cultures, Indian culture and contemporary history and contemporary situation; history of blacks in the military, contemporary black thought, and black city situations.

Credit Recommendation: Version 1: 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 subjects: applied psychology, group dynamics, intergroup relations; communications theory, history of minorities and ethnic groups, and instructional methodology (5/76). Version 2: In the upper-division baccalaureate category, 6 semester hours in behavioral science laboratory, and 6 in social and behavioral science, to be assigned in any of the following disciplines: applied psychology, group dynamics, intergroup relations, or history of minorities and ethnic groups (5/74); in the graduate degree category, 6 semester hours in social and behavioral science laboratory (5/74).

NOTE: Credit recommendations are based on an on-site evaluation. Recommendations of credit actually accepted for transfer depend upon the applicant's future academic goals and the regulations of the institution on transfer credit.

**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: 5/72-7/72.

Objectives: To train enlisted personnel to perform ground survey control through differential leveling, gravity surveys, traverse, triangulation, and astrographic observation; mapping and charting in support of weapons systems and other operations; military construction surveys; establishment of control; expeditious road and landing-site planning, and construction-site layout surveys for the theater of operations construction support.

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-1601-0002**

**GEODETIC SURVEYING**

Course Number: 412-101.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 10 weeks (376 hours).

Exhibit Dates: 12/72-1/73.

Objectives: To train enlisted personnel in geodetic surveying techniques.

Instruction: Lectures and practical exercises in geodetic surveying techniques, including astronomic observations for longitude, latitude, and azimuth; computing and adjusting geodetic 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; geodetic and map compilation and digital computers.

Credit Recommendation: In the lower-division baccalaureate/associate degree category, 10 semester hours in advanced geodetic surveying (5/74); in the upper-division baccalaureate category, 8 semester hours in advanced geodetic surveying (5/74).

**DD-1601-0003**

**ADVANCED GEODETIC SURVEYING**

Course Number: 4M-710.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 20 weeks (707 hours).

Exhibit Dates: 5/73-12/73.

Objectives: To provide geodetic surveyors with training in advanced geodetic survey techniques.

Instruction: Lectures and practical exercises in advanced geodetic survey techniques, including astronomical observations for longitude, latitude, and azimuth; computing and adjusting geodetic figures; mapping and survey control, transfer of revision data to compilation base, and delineation of aerial photography.

Credit Recommendation: In the vocational certificate category, 6 semester hours in plane and geodetic surveying (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-1601-0004**

**TERRAIN ANALYSIS**

Course Number: 491-101.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 10 weeks (314 hours).

Exhibit Dates: 5/73-12/73.

Objectives: To provide soils analysis, map compilers, and image interpreters with training in geographic analysis.

Instruction: Lectures and practical exercises in terrain analysis, including principles and techniques of terrain analysis, map reading and land navigation, basic photogrammetric principles and cartographic techniques, principles for describing terrain, geologic and hydrologic concepts, underground operations planning considerations, evaluation of terrain elements, base development and LOC planning considerations, engineer reconnaissance, engineer operations, photography, and applied terrain analysis.

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

**DD-1601-0005**

**ADVANCED PHOTOGRAMMETRIC CARTOGRAPHIC TECHNIQUES**

Course Number: 411-205.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 8 weeks (281 hours).

Exhibit Dates: 5/73-12/73.

Objectives: To train noncommissioned officers to perform as photogrammetric cartographic technicians.

Instruction: Lectures and practical exercises in earth and physical sciences as related to the photogrammetric-cartographic area, including regional physiography, geodetic datums, horizontal and vertical control, positional evaluation, photogrammetric metrics, projections, grids, photophoto restitution, structural analysis, industrial analysis, photogrammetric equipment, aerial reconnaissance systems, and computer functions of photographic and cartographic areas.

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

**DD-1601-0006**

**GEODETIC COMPUTING**

Course Number: 412-102.

Location: Defense Mapping School, Ft. Belvoir, VA.

Length: 11 weeks (378 hours).

Exhibit Dates: 12/72-1/73.

Objectives: To train enlisted personnel in geodetic computing.

Instruction: Lectures and practical exercises in geodetic computing, including computer programming, mathematics review, use of electronic calculators, map reading, computations in grid and declination grid conversions and transformations, grid traverses and electronic distance measurements, grid triangulation, leveling, traverse, and trilateration, astronomic azimuth and position, and adjustment of geodetic figures; directions, line length, and elevation differer 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).
Exhibit Dates: 1/74-Present.
Objectives: To train officers in mapping, charting, and geodesy.
Instruction: Lectures and practical exercises in mapping, charting, and geodesy provide instruction in the theory of errors, MC and G survey, photogrammetric, cartographic, and reproduction operations.
Credit Recommendation: In the low-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: 412-82820.
Location: Defense Mapping School, Ft. Belvoir, VA.
Length: 11 weeks (362 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train enlisted personnel in plane surveying fundamentals.
Instruction: Lectures and practical exercises in plane surveying fundamentals, including equipment maintenance, recording procedures, map reading, route selection, one-minute theodolite, engineer transit, horizontal taping, traverse layout, plane triangulation, engineering dummy level, differential leveling, trigonometric elevations, planetable surveying, transit-stadia, contour strip map, horizontal curves, road layout, profile and cross-section leveling, profile and grade line plotting, vertical curves, end area, volumes, boundary alignment, slope and grade stakes, site plans and construction drawings, and building utilities and airfield layout.
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-1601-0009
PHOTOGRAFMETRIC COMPIALATION
Course Number: 411-203; 411-81D30.
Location: Defense Mapping School, Ft. Belvoir, VA.
Length: 8 weeks (270 hours).
Exhibit Dates: 6/71-Present.
Objectives: To train map compilers in the principles and techniques of photogrammetric map compilation.
Instruction: Lectures and practical exercises in the principles and techniques of photogrammetric map compilation, including multiplex stereoplotting equipment, multiplex stereoplotter orientation, reduction printing, stereocompilation, high-precision stereograph, stereotriangulation, and special operational subjects.
Credit Recommendation: In the lower-division baccalaureate/associate degree category, 6 semester hours in photogrammetric compilation (7/74); in the upper-division baccalaureate category, 3 semester hours in photogrammetric compilation (7/74).

DD-1606-0001
NATIONAL SENIOR INTELLIGENCE
Course Number: None.
Location: Defense Intelligence School, Washington, DC.
Length: 14 weeks (560 hours).
Exhibit Dates: 6/72-Present.
Objectives: To provide officers and civilian personnel with the knowledge necessary to hold management positions in the field of national and international intelligence.
Instruction: Lectures in 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).
Exhibit Dates: 11/73-Present.
Objectives: To train multilith operators to troubleshoot, and perform preventive maintenance on, 1250 multiliths.
Instruction: Lectures and practical exercises on the preventive maintenance and repair of the 1250 multilith, including mechanical adjustments necessary to maintain the operational capability of the 1250 multilith, normal operator adjustments, system alignments and adjustments, maintenance, case problems, and preventive maintenance.
Credit Recommendation: In the vocational certificate category, 3 semester hours in multilith 1250 repair (6/74).

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 and repair reproduction equipment, including copy cameras, power paper cutters, paper folder-stitchers, and offset duplicating machines.
Instruction: Lectures and practical exercises in the operation and maintenance of reproduction equipment. Course includes the 24 X 30 copy camera, introduction to phototronics, 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 cutter, 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, 3 semester hours in reproduction equipment repair (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in cartographic drafting (5/74); in the upper-division baccalaureate category, 2 semester hours in cartographic drafting (5/74).

DD-1713-0002
CARTOGRAPHIC DRAFTING
Course Number: 411-201.
Location: Defense Mapping School, Ft. Belvoir, VA.
Length: 9 weeks (293 hours).
Exhibit Dates: 5/72-Present.
Objectives: To train enlisted personnel to perform as cartographic draftsmen.
Instruction: Lectures and practical exercises in cartographic drafting. Topics include compilation base and radial triangulation, basic compilation and map revision, aerial photomosaics, color separation, and situation overlays and special studies.
Credit Recommendation: In the vocational certificate category, 6 semester hours in cartographic drafting (5/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in cartographic drafting (5/74); in the upper-division baccalaureate category, 2 semester hours in cartographic drafting (5/74).

DD-1713-0003
CONSTRUCTION DRAFTING
Course Number: 413-81B20; 5-R-811.1; 5-R-811.2.
Location: Engineer School, Ft. Belvoir, VA.
Length: 10-11 weeks (374-440 hours).
Exhibit Dates: 3/54-Present.
Objectives: To train enlisted personnel to prepare working drawings for bridges, airfields, roads, railroads, and piers.
Instruction: Lectures and practical exercises in basic drafting, mathematics review; materials and methods of construction; construction drawings; estimates and bills of material; plumbing, heating, and wiring layouts; perspective drawings; and roads, railroads, and airfields drawing and calculation for survey notes.
Credit Recommendation: In the vocational certificate category, 10 semester hours in architectural drafting (7/74); in the lower-division baccalaureate/associate category, 20 semester hours in architectural drafting (7/74).
COURSE EXHIBITS

DD-1713-0004

CONSTRUCTION DRAFTING
Course Number: 413-210.
Location: Defense Mapping School, Ft.
Belvoir, VA.
Length: 11 weeks (362-405 hours).
Exhibit Dates: 3/71-Present.
Objectives: To train enlisted personnel to prepare and present construction drawings.
Instruction: Lectures and practical exercises on the preparation of working drawings, charts, and graphs for the construction of roads, airfields, bridges, buildings, ports, harbors, and other military construction, including construction drafting; preparation of mechanical, construction, and technical drawings; engineer drawings; mechanical lettering; and charts and graphs.
Credit Recommendation: In the vocational certificate category, 8 semester hours in architectural drafting (7/74); in the lower-division baccalaureate/associate degree category, 4 semester hours in engineering drafting (12/68).

DD-1719-0001

LITHOGRAPHIC STRIPPING AND PLATEMAKING
Course Number: 740-302.
Location: Defense Mapping School, Ft.
Belvoir, VA.
Length: 7 weeks (227 hours).
Exhibit Dates: 4/72-Present.
Objectives: To train enlisted personnel to prepare and produce offset plates to be used in the lithographic printing process.
Instruction: Lectures and practical exercises in the preparation and production of offset plates, to be used in the lithographic printing process, including layout, stripping, and platemaking procedures.
Credit Recommendation: In the vocational certificate category, 3 semester hours in graphic arts (5/74); in the lower-division baccalaureate/associate degree category, 2 semester hours in graphic arts (5/74).

DD-1719-0002

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.
Instruction: Lectures and practical exercises in offset printing. Topics include photolithography, materials, methods of producing military maps, operation of power paper cutter, maintenance of offset press, controls, 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, 8 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 (276 hours).
Exhibit Dates: 11/73-Present.
Objectives: To train enlisted personnel to operate copy cameras and related equipment.
Instruction: Lectures and practical exercises in fundamentals of copy photography, camera operation, film processing, exposure, filters, tone and continuous-tone copying, halftone magenta screens, contact printing, diapositive glass plates, pictometers, 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 (7/74); in the lower-division baccalaureate/associate degree category, 1 semester hour in basic lithography on the basis of institutional evaluation (7/74).

DD-1719-0004

OFFSET DUPLICATING EQUIPMENT OPERATOR
Course Number: 740-304.
Location: Defense Mapping School, Ft.
Belvoir, VA.
Length: 5 weeks (145 hours).
Exhibit Dates: 11/72-Present.
Objectives: To train enlisted personnel in the operation and basic maintenance of the offset duplicator, camera processor, and platemaker equipment.
Instruction: Course includes: introduction to photolithography; training in the operation of the 3M MR-412 Camera Processor and the A.B. Dick 675/...Copier with Platemaker and Camera Processor, and training in the operation and maintenance of other duplicating equipment, including the A&M 1250 Multilith Duplicator, the A.B. Dick 33 Dupli-ator, 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: 671-601.
Location: Defense Mapping School, Ft.
Belvoir, VA.
Length: 12 weeks (382 hours).
Exhibit Dates: 6/74-Present.
Objectives: 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, dumpy level, theodolite, transit, military level, open-mine and one-second theodolites, and survey tapes.
Credit Recommendation: In the vocational certificate category, 2 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.
Length: Version 1: 5 weeks (182-183 hours), Version 2: 3 weeks (113 hours).
Objectives: 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 contracting officers, personnel clearance programs, inspections, security education program; security arrangements, international aspects, and code usage. Version 1: This version emphasizes the security threat against the U.S. government and industry; facility protection programs; classified document control; elementary physical security measures; communications security; vulnerabilities of and protective measures for automatic data-processing systems, emergency/planner planning and procedures. Audio-visual presentations.
Credit Recommendation: Version 1: In the lower-division baccalaureate/associate degree category, 5 semester hours 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.
Instruction: The security manager, organization for security; policies, objectives and management implementation; classification principles and problems; declassification and downgrading; marking and control of classified documents; communications security; automatic data-processing security; emergency planning; and processing security violations and compromises.
Credit Recommendation: In the upper-division baccalaureate category, 2 semester hours in criminology or security administration and management (1/77).
Appendix

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; describes the evaluation systems used to prepare the recommendations for military formal courses; and includes definitions and guidelines pertaining to categories of educational credit and the semester hour standard. 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 Evaluation of Educational Experiences in the Armed Services has been prepared in response to specific needs. Immediately after World War II, the consensus in 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 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 military formal 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.
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 exhibits 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 graduate 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 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 RECOMMENDATIONS

In order to interpret exhibits correctly, readers should become thoroughly familiar with the definitions and guidelines utilized by evaluators in formulating the recommendations. The following paragraphs include definitions and guidelines pertaining to categories of educational credit and the semester hour standard. The Commission policy on credit for military service, including basic and recruit training, is also given in this section.
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.

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.

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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 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 on Educational Credit upon written request by education officials.
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. Proc 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.

.50 Caliber
.50 Caliber Machinegun AF-2203-0037

A-12
E-4 (A-12) Autopilot AF-1715-0628

A-12D
A-12D Autopilot AF-1715-0629

A-14
A-14 Autopilot and N-1, MD-1 Compasses AF-1715-0630
B-52H, A-14 Autopilot, AN/ AJN-8 HVRS and MD-1 Astro Compass AF-1721-0003
N-1 and MD-1 Compasses, AN/AJA-1 Computer and A-14 Autopilot AF-1715-0624

A-1A
A-1A Oxygen, Nitrogen Generating Plant AF-1601-0037

A-286
Welding of A-286 Alloy Material (J-79 Engine) AF-1710-0016

A-3A
Defensive Fire Control System Mechanic (A-3A, MD-9, ASG-15 Turrets) AF-1715-0482
Defensive Fire Control Systems Mechanic (A-3A, MD-9, ASG-15 Fire Control Systems) AF-1715-0482
Defensive Fire Control Systems Mechanic (A-3A, MD-9, ASG-15 Turrets) AF-1715-0482
Defensive Fire Control Systems Mechanic (A-3A, MD-9, ASG-15 Fire Control Systems) AF-1715-0482
Defensive Fire Control Systems Mechanic (A-3A, MD-9, ASG-15 Turrets) AF-1715-0259
Defensive Fire Control Systems Mechanic (B-52, A-3A) AF-1715-0259
Turret System Mechanic (A-3A, MD-9, ASG-15 Turrets) AF-1715-0482
Turret Systems Technician (A-3A, MD-9, ASG-15 Turrets) AF-1715-0259
Turret Systems Gunner (A-3A/MD-9 Turrets) AF-1715-0205

A-5
Defensive Fire Control Systems Mechanic (MD-1, MD-1A, MD-4, and A-5) AF-1715-0013
Defensive Fire Control Systems Mechanic (A-5, MD-1, and A, MD-4) AF-1715-0013
Turret System Mechanic (A-5, MD-1, and A, MD-4) AF-1715-0013
Turret System Mechanic (MD-1, MD-4, A-5) AF-1715-0013

A-6341FN-D1
Field and Organizational Maintenance A6341FN-D1 Propeller AF-1704-0103

A-7D
Intermediate Maintenance, A-7D Weapons Control System (WCS) AF-1715-0278
Weapons Control Systems Mechanic (A-7D, AN/APO-126) AF-1715-0538

AC
Automotive AC Electrical Systems AF-1703-0008
Operator and Operation Maintenance of AC System Tester, Model T-35 AF-1715-0095

AC-130E
Special Operations Training, AC-130E Pilots AF-1606-0020

Academic
Academic Instructor AF-1406-0034

Accessories
KC-135 Mechanical Accessories and Equipment Repairman AF-1701-0006
Mechanical Accessories and Equipment Repairman AF-1701-0007
Mechanical Accessories and Equipment Repairman, B-52 AF-17040178
Mechanical Accessories and Equipment Repairman, C-130A AF-1704-0101
Mechanical Accessories and Equipment Repairman AF-1715-0528

Accident
Air Force Weapons Accident Prevention and Management AF-1802-0021
Jet Engine Accident Investigation AF-1704-0037
Traffic Management and Accident Investigation AF-1728-0004

Accountant
Accountant AF-1401-0004
Machine Accountant AF-1402-0026

Accounting
Accounting and Finance Applications of Base Supply Computer (UNIVAC 1050) AF-1401-0016
Accounting and Finance Automated Material System AF-1401-0016
Accounting and Finance Officer AF-1401-0009
Accounting and Finance Specialist AF-1401-0001
Accounting and Finance Supervisor AF-1401-0010
Accounting and Finance Supervisor (Disbursement Accounting) AF-1401-0015
Accounting and Finance Supervisor (General Accounting)
Aircraft Electrical

Aircraft Electrical Repairman
AF-1704-0114
Aircraft Electrical Repairman, B-52
AF-1704-0167
Aircraft Electrical Repairman, C-130A
AF-1704-0167
Aircraft Electrical Repairman, F-101A
AF-1704-0104
Aircraft Electrical Repairman, F-102A
AF-1704-0128
Aircraft Electrical Repairman, F-104
AF-1704-0166
Aircraft Electrical Repairman, KC-135
AF-1704-0125
KC-135 Aircraft Electrical Repairman
AF-1704-0125

Aircraft Maintenance

Aircraft Maintenance/Avionics Officer
AF-1717-0004
Aircraft Maintenance Indocmtation
(SAC)
AF-1704-0083
Aircraft Maintenance Management Officer
AF-1717-0002
Aircraft Maintenance Officer
AF-1717-0002
Aircraft Maintenance Officer
AF-1717-0003
Aircraft Maintenance Specialist, Jet
AF-1704-0036
Aircraft Maintenance Specialist, Jet,
Over Two Engines
AF-1704-0067
Aircraft Maintenance Specialist,
Reciprocating Engine Aircraft
AF-1704-0043
Aircraft Maintenance Specialist Turbo-
Prop Aircraft
AF-1704-0080
Aircraft Maintenance Staff Officer
AF-1717-0022
Aircraft Maintenance Technician
AF-1704-0013
Aircraft Maintenance Technician, Jet
Engine Aircraft
AF-1717-0006
Aircraft Maintenance Technician, Jet
Engine Type Aircraft
AF-1717-0006
Aircraft Maintenance Technician,
Reciprocating Engine Aircraft
AF-1704-0088

Aircraft Mechanic

Aircraft Mechanic B-52
AF-1704-0058
Aircraft Mechanic, B-52H
AF-1704-0058
Aircraft Mechanic C-130
AF-1704-0084
Aircraft Mechanic, C-130A
AF-1704-0055
Aircraft Mechanic, F-100D
AF-1704-0063
Aircraft Mechanic, F-101A
AF-1704-0062
Aircraft Mechanic, F-101B
AF-1704-0061
Aircraft Mechanic, F-102A
AF-1704-0123
Aircraft Mechanic, F-104
AF-1704-0086
Aircraft Mechanic (Jet Aircraft, Over
Two Engines)
AF-1704-0067
Aircraft Mechanic (Jet Bomber Two
Engines)
AF-1704-0036
Aircraft Mechanic (Jet Fighter
AF-1704-0036
Aircraft Mechanic, Jet One Engine
AF-1704-0036
Aircraft Mechanic (Jet, Over Two
Engines)
AF-1704-0067
Aircraft Mechanic (Jet, Two Engines)
AF-1704-0036
Aircraft Mechanic, Reciprocating Engine
Aircraft
AF-1704-0043
Aircraft Mechanic, Reciprocating Engine
Types
AF-1704-0043

Aircraft Control and Warning Radar
Aircraft Control and Warning Radar
Repairman
AF-1715-0064
Aircraft Control and Warning Radar
Repairman
AF-1715-0067
Aircraft Control and Warning Radar
Repairman (AN/CPS-1, AN/CPS-4,
AN/CPS-5 and IFF)
AF-1715-0010
Aircraft Control and Warning Radar
Repairman (AN/CPS-6B and AN/FPS-6)
AF-1715-0023
Aircraft Control and Warning Radar
Repairman (AN/CPS-6B and IFF)
AF-1715-0023
Aircraft Control and Warning Radar
Repairman (AN/FPS-18, AN/FST-1,
AN/FSA-10, AN/FSW-1)
AF-1715-0060
Aircraft Control and Warning Radar
Repairman (AN/FPS-8 and AN/FPS-6)
AF-1715-0115
Aircraft Control and Warning Radar
Repairman (AN/FPS-3, AN/FPS-6)
AF-1715-0103
Aircraft Control and Warning Radar
Repairman (AN/FPS-3, AN/FPS-6
and IFF)
AF-1715-0103
Aircraft Control and Warning Radar
Repairman (AN/FPS-3, AN/FPS-4)
AF-1715-0105
Aircraft Control and Warning Radar
Repairman, AN/FPS-8, AN/FPS-4
AF-1715-0020
Aircraft Control and Warning Radar
Repairman, AN/FPS-8, AN/FPS-4
and IFF
AF-1715-0020
Aircraft Control and Warning Radar
Repairman, AN/FST-2
AF-1715-0111
Aircraft Control and Warning Radar
Repairman (AN/GPA-37)
AF-1715-0056
Aircraft Control and Warning Radar
Repairman (AN/TPS-1D, AN/TPS-10D)
AF-1715-0118
Aircraft Control and Warning Radar
Repairman (AN/TPS-1D, AN/TPS-10D
and IFF)
AF-1715-0118
Aircraft Control and Warning Radar
Technician
AF-1715-0064
Pilotless Aircraft Control Systems
Mechanic
AF-1715-0247

KEYWORD INDEX

Aircrew Egress Systems Repairmen
AF-1715-0787
Aircrew Life Support Equipment
AF-1704-0185
Aircrew Life Support Specialist
AF-1704-0182
Aircrew Transition—Medium Bomb-Jet
(Aircraft Commander/Pilot)
AF-1606-0038
Aircrew Transition—Medium Bomb-Jet
(Aircraft Observer)
AF-1606-0039
F-4 Aircrew Life Support Specialist
AF-1704-0180
HC-130 Aircraft Commander (Aircrew
Training)
AF-1606-0026
HC-130 Aircraft Instructer Training
AF-1606-0149
HC-130 Flight Engineer (Aircrew
Training)
AF-1606-0027
HC-130 Loadmaster (Aircrew Training)
AF-1606-0028
HC-130 Navigator (Aircrew Training)
AF-1606-0025
HC-130 Radio Operator (Aircrew
Training)
AF-1606-0024
Maintenance of Survival and Aircrew
Protective Equipment (Fabric and
Leather)
AF-1716-0003
Medium Transport (C-119) Aircrew,
Transition
AF-1606-0044
Tanker Aircrew, KC-97
AF-1606-0015
Air Defense
Air Defense Artillery Director (SAGE)
AF-1715-0288
Assistant Air Defense Artillery Director
(SAGE)
AF-1715-0289
Airframe
Airframe Repair, C-141
AF-1704-0039
Airframe Repairman
AF-1704-0129
Airframe Repair Specialist
Ballistic Missile Analyst Specialist (SM65D) AF-1715-0294
Ballistic Missile Analyst Specialist (SM-65F) AF-1715-0295
Ballistic Missile Analyst Specialist, WS-133B AF-1715-0731
Ballistic Missile Analyst Technician (SM-65F) AF-1715-0319
Computer Systems Analyst AF-1402-0003
Control Systems Analyst (GAM-72) AF-1715-0320
Control Systems Analyst (GAM-77) AF-1715-0583
GAM Analyst Mechanic, GAM-77 AF-1715-0454
Guidance System Analyst (GAM-63)
Missile D/A AF-1715-0379
Guidance System Analyst, SM-62 AF-1715-0381
Guidance System Analyst (TM-76A) AF-1714-0005
MA-2/ASB-4 Bomb Navigation Systems (Analyst Supervisor) AF-1715-0287
Missile Systems Analyst Specialist AF-1715-0376
Missile Systems Analyst Specialist (AGM-28A/B) AF-1715-0454
Missile Systems Analyst Specialist (AGM-69A) AF-1715-0451
Missile Systems Analyst Specialist (LGM-25) AF-1715-0376
Missile Systems Analyst Specialist (TM-76B) AF-1715-0668
Missile Systems Analyst Specialist, WS-133A-M AF-1715-0452
Missile Systems Analyst Specialist, WS-133B AF-1715-0731
Missile Systems Analyst/Technician, GAM-77 AF-1715-0732
Missile Systems Analyst/Technician SM-62 AF-1715-0157
Missile Systems Analyst/Technician, SM-65F AF-1715-0335
Missile Systems Analyst/Technician (SN68) AF-1715-0315
Mission Systems Analyst/Technician (T and A), WS-133A-M AF-1715-0361
Mission Systems Analyst/Technician (TEAT) WS-133A-M AF-1715-0384
Mission Systems Analyst/Technician, WS-133A-M AF-1715-0340
Mission Systems Analyst/Technician, WS-133A-M Integrated AF-1715-0361
Space Object Identification Analyst AF-1715-0229
Space Systems Analyst AF-1304-0011
Analyzer AF-1303-0001
Jet Engine Analyzer, Sperry Maintenance AF-1715-0505
Jet Engine Analyzer—IRD Maintenance AF-1715-0605
Jet Engine Vibration Analyzer Operator (Sperry) AF-1715-0005
Analyzers AF-1704-0020
Reciprocating Engine Conditioning With Analyzers (R2800 and Smaller) AF-1704-0071
Reciprocating Engine Conditioning With Analyzers (R3350) AF-1704-0071
Reciprocating Engine Conditioning With Analyzers (R4360) AF-1704-0071
AN/APA-54(A) Special Training on SHORAN Equipment AN/APN-84, with K-4, AN/APN-3, with K-1A and AN/APA-54(A) AF-1715-0403
AN/APG-T1 Gunnery Trainer Specialist (AN/APG-T1, TIA) AF-1715-0216
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AN/APN-175(V)-3 AN/APN-175(V)-3 Doppler Navigation System Maintenance AF-1715-0584
AN/APN-3 Special Training on SHORAN Equipment AN/APN-84, with K-4, AN/APN-3, with K-1A and AN/APA-54(A) AF-1715-0403
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AN/APQ-24A AN/APQ-24A System Mechanic AF-1715-0428
AN/APQ-24A System Technician AF-1715-0283
Special Training On Radar Bombing Navigation System, AN/APQ-24A AF-1715-0617
AN/APQ-T10 Navigation and Bombing Trainer Specialist (ANAPQ-T10) AF-1715-0544
AN/APQ-T2A Navigation and Bombing Trainer Specialist (ANAPQ-T2A) AF-1715-0274
AN/APQ-T3 Navigation and Bombing Trainer Specialist (ANAPQ-T3) AF-1715-0274
AN/APQ-9B Special Training on AN/APQ-9B Equipment (Depot) AF-1715-0236
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AN/APX-28 Special Training, AN/APX-28 AF-1715-0425
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Field/Organizational (F/O) Maintenance
AF-1715-0409
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Intermediate/Organizational (I/O) Maintenance
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AN/APX-76
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Field/Organizational (F/O) Maintenance
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Airborne Electrical Systems Technician
(AF/ARC-106)
AF-1715-0509
AN/ARC-21
Special Radio Maintenance Technician
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AF-1715-0078
AN/ARC-58
Special Training, AN/ARC-58 Single Sideband HF Radio Set
AF-1715-0083
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Field/Organizational (F & O) Maintenance
AF-1715-0408
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AN/ART-47 and AN/ARR-71,
Field/Organizational (F & O) Maintenance
AF-1715-0408
AN/ASG-14
Fire Control Systems Mechanic
(AN/ASG-14 System)
AF-1715-0211
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Field and Organizational (F & O) Maintenance of the AN/ASH-4 Light and Time Recording Set
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Special Training on AN/ASN-6 (Field and Organizational)
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AF-1715-0015
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Navigators Bombardier (AN/ASQ-48)
AF-1704-0185
Unit Test Equipment (AN/ASQ-48)
AF-1715-0275
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Air Traffic Control Radar Repairman, AN/CPN-18, AN/FPN-16
AF-1715-0676
Air Traffic Control Radar Repairman (AN/FPN-16 and AN/CPN-18)
AF-1715-0104
AN/CPN-4
Air Traffic Control Radar Repairman AN/CPN-4
AF-1715-0104
AN/CPS-1
Air Traffic Control and Warning Radar Repairman (AN/CPS-1, AN/CPS-4, AN/CPS-5 and IFF)
AF-1715-0023
AN/CPS-6B
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AF-1715-0023
Air Traffic Control and Warning Radar Repairman (AN/CPS-6B and IFF)
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Special Training, AN/CPS-6B and Mark IFF
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Organizational/Intermediate (O/I) Maintenance
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AN/FPN-27
AF-1715-0659
AN/FPN-35
AF-1715-0659
AN/FPN-13
AF-1715-0659
AN/FPN-18
AF-1715-0659
AN/FPN-16
Radio Relay Equipment Repairman AN/FPN-16, AN/FPN-16 and AN/FPN-16 and AN/CPN-18
AF-1715-0676
Air Traffic Control Radar Repairman (AN/FPN-16 and AN/CPN-18)
AF-1715-0105
Special Training, AN/FPN-16 and AN/FPN-16 and AN/CPN-18
AF-1715-0519
Air Traffic Control and Warning Radar Repairman (AN/FPN-18, AN/FST-1, AN/FSA-10, AN/FSW-1)
AF-1606-0115
AN/FPS-20
Field/Organizational (F & O) Maintenance
AF-1715-0060
Air Traffic Control and Warning Radar Repairman (AN/FPS-20 and AN/FPS-6)
AF-1715-0115
AN/FPS-24
Field/Organizational (F & O) Maintenance
AF-1715-0115
AN/FPS-24 FD Radar Maintenance (Paper and Pencil)
AF-1715-0244
Special Training, AN/FPS-24 (Field and Organizational)
AF-1715-0514
AN/FPS-26A
AN/FPS-26A Field and Organizational (F & O) Maintenance
AF-1715-0213
Special Training, AN/FPS-26A (Field and Organizational)
AF-1715-0523
AN/FPS-26A Field and Organizational (F & O) Maintenance
AF-1715-0523
AN/FPS-27
AN/FPS-27 Field and Organizational (F & O) Maintenance
AF-1715-0616
AN/FPS-3
AN/FPS-3 Field and Organizational Maintenance
AF-1715-0026
AN/FPS-3
AN/FPS-3 Aircraft Control and Warning Radar Repairman (AN/FPS-3, AN/FPS-6, AN/FPS-4, and AN/FPS-5)
AF-1715-0103
AN/FPS-3 Aircraft Control and Warning Radar Repairman (AN/FPS-3, AN/FPS-6, and IFF)
AF-1715-0103
AN/FPS-35
AN/FPS-35 FD Radar Maintenance (Paper and Pencil)
AF-1715-0241
AN/FPS-4
AN/FPS-4 Aircraft Control and Warning Radar Repairman (AN/FPS-4 and AN/FPS-5)
AF-1715-0105
AN/FPS-4 Aircraft Control and Warning Radar Repairman (AN/FPS-4 and AN/FPS-5)
AF-1715-0010
AN/FPS-4 Aircraft Control and Warning Radar Repairman (AN/FPS-4, AN/FPS-5, AN/FPS-6)
AF-1715-0020
AN/FPS-4 Aircraft Control and Warning Radar Repairman (AN/FPS-4, AN/FPS-6, and IFF)
AF-1715-0020
AN/FPS-6
AN/FPS-6 Aircraft Control and Warning Radar Repairman (AN/FPS-6B and AN/FPS-6)
AF-1715-0103
AN/FPS-6 Aircraft Control and Warning Radar Repairman (AN/FPS-6B and AN/FPS-6)
AF-1715-0103
AN/FPS-6 Aircraft Control and Warning Radar Repairman (AN/FPS-6 and IFF)
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AN/FPS-6 Aircraft Control and Warning Radar Repairman (AN/FPS-6 and IFF)
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AN/FPS-6 Aircraft Control and Warning Radar Repairman (AN/FPS-6 and IFF)
AF-1715-0103
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KEYWORD INDEX

Radio Relay Equipment Repairman
(AN/MRC-85, AN/FRC-39A(V), AN/MCC-13)
AF-1715-0059

Radio Relay Equipment Repairman MC-
50, AN/MCC-13, AN/FCC-32(V) (TMS-
2), MW-503A, AN/FRC-39A(V), AN/MRC-85
AF-1715-0059

AN/MMQ-2
AN/MMQ-2 Meteorological Station
Manual
AF-1715-0060

AN/MPN-1
Air Traffic Control Radar Repairman
(AN/MPN-1)
AF-1715-0088

AN/MPQ-T2A
AN/MPQ-T2A (Theory)
AF-1715-0026

AN/MRC-107
AN/MRC-107, F/O Maintenance
AF-1715-0072

AN/MRC-107, I/O Maintenance
AF-1715-0072

EMU/12E and AN/MRC-107 Generator
Sets
AF-1715-0069

AN/MRC-107A
AN/MRC-107A, I/O Maintenance
AF-1715-0072

AN/MRC-85
Radio Relay Equipment Repairman
(AN/MRC-85, AN/FRC-39A(V), AN/MCC-13)
AF-1715-0059

Radio Relay Equipment Repairman MC-
50, AN/MCC-13, AN/FCC-32(V) (TMS-
2), MW-503A, AN/FRC-39A(V), AN/MRC-85
AF-1715-0059

AN/MRN-7
Special Radio Maintenance Technician
AN/MRN-7 and AN/MRN-8 Instrument
Landing System
AF-1715-0084

AN/MRN-7A
Special Training, AN/MRN-7A, AN/MRN-8A, and Wilcox 492A
Maintenance Field and Organizational (F & O)
AF-1715-0189

AN/MRN-8
Special Radio Maintenance Technician
AN/MRN-7 and AN/MRN-8 Instrument
Landing System
AF-1715-0084

AN/MRN-8A
Special Training, AN/MRN-7A, AN/MRN-8A, and Wilcox 492A
Maintenance Field and Organizational (F & O)
AF-1715-0189

AN/MSQ-1A
Special Training, AN/MSQ-1A (Field and Organizational) (F & O)
AF-1715-0189

AN/MSQ-35
AN/MSQ-35 Radar Booth Scoring
Central F/O
AF-1715-0042

AN/MSQ-39
Automatic Tracking Radar Specialist
(AN/MSQ-39)
AF-1715-0045

Antenna
Antenna Installation and Maintenance
AF-1714-0020

Cable and Antenna Installation Specialist
AF-1714-0015

Outside Wire and Antenna Maintenance
Repairman
AF-1714-0015

Outside Wire and Antenna Systems
Installation and Maintenance
AF-1714-0015

Outside Wire and Antenna Systems
Installation and Maintenance Specialist
AF-1714-0015

Special Training on Antenna OA-
492/APS-20B (Depot)
AF-1715-0015

AN/TGC-14(V)
AN/TGC-14(V) Teletypewriter I & O
Maintenance
AF-1715-0075

AN/TPN-12
Air-Traffic-Control Radar Repairman
(AF/TPN-12)
AF-1715-0079

Special Training AN/TPN-12 (OCA)
AF-1715-0079

AN/TPS-1D
Aircraft Control and Warning Radar
Repairman (AN/TPS-1D, AN/TPS-1D)
AF-1715-0118

Aircraft Control and Warning Radar
Repairman (AN/TPS-1D, AN/TPS-1D)
and IFF
AF-1715-0118

Special Training on Radar Set AN/TPS-
1D
AF-1715-0047

AN/TPS-44
AN/TPS-44 Radar
Organizational/Intermediate (O/I)
Maintenance
AF-1715-0251

Antrac
Radio Relay Equipment Repairman
(Carrier and Antrac Equipment)
AF-1715-0120

AN/TRC
Radio Relay Equipment Repairman
(AN/TRC)
AF-1715-0122

Special Radio Maintenance Technician,
AN/TRC-24 Radio Set
AF-1715-0081

AN/TRC-87
AN/TRC-87 Field and Organization (F & O)
Maintenance
AF-1715-0228

AN/TRC-97A
AN/TRC-97A Radio Set,
Field/Organizational (F/O) Maintenance
(AF/407L)
AF-1715-0357

AN/TRC-97A Radio Set,
Organizational/Intermediate (O/I)
Maintenance (407L)
AF-1715-0357

AN/TSC-38B
AN/TSC-38B I/O Maintenance
AF-1715-0099

AN/TSC-60
AN/TSC-60 Communications Central O/I
(AF/407L)
AF-1715-0188

AN/TSQ-96
AN/TSQ-96 Organizational/Intermediate
(O/I) Maintenance
AF-1715-0252

AN/TTC-19
Electronic Switching Center, AN/TTC-19
AF-1715-0356

AN/TTC-30
Electronic Switch Intermediate/Organizational (I/O)
Maintenance
AF-1715-0165

AN/UPX-14
AN/UPX-14, Field and Organizational (F & O)
Maintenance
AF-1715-0177

AN/UPX-14 Interrogator Set, O/I
Maintenance
AF-1715-0012

AN/URN-3A
Special Training, AN/URN-3A
Maintenance Field and Organizational (F & O)
AF-1715-0591

AN/URN-3A
Special Training, AN/URN-3A
Maintenance Field and Organizational (F & O)
AF-1715-0591

AN/UVM-1
Depot Overhaul of the AN/ASH-4 Light
and Time Recorder and AN/UVM-1 Test
Set
AF-1715-0503

APG-T1
Gunnery Trainer Specialist (APG-T1, T1A)
AF-1715-0216

Appliance
Orthopaedic Appliance Specialist
AF-0709-0021

Approach
Air Route Traffic Control and Approach
Control Operator
AF-1704-0008

APQ-109
Weapon Control Systems Mechanic (F-
4C/D: APQ-109/APA-165)
AF-1715-0535

APQ-120
Weapon Control Systems Mechanic (F-
4E:APQ-120)
AF-1715-0610

Arabic
Arabic
AF-0802-0007

AF-0802-0012

DD-0602-0001

DD-0602-0002

DD-0602-0003

DD-0602-0004

DD-0602-0006

DD-0602-0009

Arabic—Eastern
Arabic—Western
AF-0602-0013

AF-0602-0007

AF-0602-0012

Arctic
Arctic Survival Training
AF-0802-0002

Area
Intelligence Area Studies (SEA)
AF-1601-0042

Armament
Advanced Armament Officer
AF-1408-0049
Air Electronics Maintenance for Armament Systems Officer
- Armament Officer: AF-1715-0560
- Armament Systems Officer, Bomber: AF-1408-0049
- Armament Systems Officer, Fighter: AF-1715-0536
- Armament Systems Officer, Gunnery (A/GM-77): AF-1704-0147
- ECM Maintenance For Armament Systems Officer: AF-1715-0562

Armed Forces Staff College
- DD-0326-0001

ARRS
- Advanced Aircraft Load (HC-130 ARRS): AF-1606-0028
- Flight Engineer Advanced Flying (HC-130 ARRS): AF-1606-0027
- Navigator Advanced Flying (HC-130 ARRS): AF-1606-0025
- Pilot Advanced Flying (HC-130 ARRS): AF-1606-0026
- Pilot Advanced Flying (HH-43 ARRS): AF-1606-0124
- Radio Operator (HC-130 ARRS): AF-1606-0024

Artillery
- Air Defense Artillery Director (SAGE): AF-1715-0288
- Assistant Air Defense Artillery Director (SAGE): AF-1715-0289

A/S32P-2
- A/S32P-2 Firefighting Vehicle Operator: AF-1728-0030

A/S32R-2
- A/S32R-2 Refueler (Model 2116): AF-1710-0020
- Maintenance of A/S 48A-1 Wheel Mover: AF-1704-0144

A/S 48A-1
- Maintenance of A/S 48A-1 Wheel Mover: AF-1704-0144

ASB-15
- Bomb-Navigation System Mechanic (ASB-15 System): AF-1715-0485
- Bomb Navigation System Mechanic (B-52C/D: ASB-15 System): AF-1715-0485
- Bomb-Navigation Systems Mechanic (B-52C/D: ASB-15 System): AF-1715-0485

ASB-4
- Bomb Navigation Systems Mechanic (ASB-4 Systems): AF-1715-0483
- Bomb Navigation Systems Mechanic (ASB-4 Systems): AF-1715-0483
- Bomb Navigation Systems Mechanic (ASB-4 Systems): AF-1715-0483
- Bomb Navigation Systems Mechanic (ASB-4 Systems): AF-1715-0483
- Bomb Navigation Systems Mechanic (ASB-4 Systems): AF-1715-0483
- Bomb Navigation Systems Mechanic (ASB-4 Systems): AF-1715-0483

ASB-4A
- Bomb Navigation Systems Mechanic (ASB-4A/9A/16 Systems): AF-1715-0483
- Bomb Navigation Systems Mechanic (ASB-4A/9A/16 Systems): AF-1715-0483
- Bomb Navigation Systems Mechanic (ASB-4A/9A/16 Systems): AF-1715-0483
- Bomb Navigation Systems Mechanic (ASB-4A/9A/16 Systems): AF-1715-0483

ASB-9
- Bomb Navigation Systems Technician (ASB-4 and ASB-9 Systems): AF-1715-0263

ASG-14
- Fire Control Systems Mechanic (MA-10, ASG-14 Systems): AF-1715-0567
- Fire Control Systems Technician (MA-10, ASG-14 Systems): AF-1715-0567
- Offensive Fire Control Systems Mechanic (MA-10, ASG-14 Systems): AF-1715-0567

ASG-15
- Defensive Fire Control System Mechanic (A-3A, MD-9, ASG-15 Turrets): AF-1715-0482
- Defensive Fire Control Systems Mechanic (A-3A, MD-9, ASG-15 Turrets): AF-1715-0482
- Defensive Fire Control Systems Mechanic (A-3A, MD-9, ASG-15 Turrets): AF-1715-0482
- Defensive Fire Control Systems Mechanic (A-3A, MD-9, ASG-15 Turrets): AF-1715-0482

ASR-9
- Bomb Navigation Systems Mechanic (ASB-4A/9A/16 Systems): AF-1715-0483

ASQ-14
- Fire Control Systems Mechanic (F-106A/B: MA-1, ASQ-25 Systems): AF-1715-0375
- Fire Control Systems Mechanic (MA-1, ASQ-25 Systems): AF-1715-0375

ASQ-25
- Weapons Control Systems Mechanic (F-106A/B: MA-1, ASQ-25 Systems): AF-1715-0375
- Weapons Control Systems Mechanic (MA-1, ASQ-25 Systems): AF-1715-0375
- Navigator Bombardier Training (ASG-38): AF-1606-0080
- Navigator Bombardier Upgrade Training (ASQ-38): AF-1606-0116
- Navigator-Bombardier Upgrade Training: AF-1606-0133
- Navigator Bombardier Training (ASO-48): AF-1704-0185

ASQ-42
- Navigator Bombardier Upgrade Training (ASQ-42): AF-1606-0133

ASQ-48
- Navigator Bombardier Upgrade Training (ASQ-48): AF-1704-0185

ASR
- Intermediate/Organizational (I/O) Maintenance M-28 ASR Low Level Keying: AF-1715-0710
- Intermediate/Organizational (I/O) Maintenance M-37 ASR Low Level Keying: AF-1715-0125

Astro
- Automatic Astro Compass TYPE MD-1 (Field and Organizational (F & O)): AF-1715-0606
- B52H, A-14 Autopilot, AN/AFN-8 HVRS and MD-1 Astro Compass: AF-1721-0003

ATC
- ATC Instructor: AF-1406-0041
- ATC Instructor (Training) Navigator: AF-1406-0039

Atlas
- Missle Launch/Missile Officer (Atlas, HGM-16 F): AF-1715-0636

Atomic
- Atomic Energy, Phase I: AF-1715-0169
- Atomic Energy, Phase I (Electrical): AF-1715-0169
- Atomic Weapons Officer: AF-1715-0169
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**Aviation**
- **Aviation Cadet Pre-Flight (Pilot)**: AF-1606-0109
- **Aviation Cadet Pre-Flight (Pilot and Navigator)**: AF-1606-0109
- **Aviation Fuel Monitoring Specialist**: AF-1601-0040
- **Preflight Training for Aviation Cadets**: AF-1606-0109

**Avionic**
- **Avionic Communications Specialist**: AF-1715-0492
- **Avionic Inertial and Radar Navigation Systems Specialist**: AF-1715-0027
- **Avionic Inertial and Radar Navigation Systems Technician (AN/APN-81/89A/99A Doppler)**: AF-1715-0024
- **Avionic Sensor Systems Specialist (Electronic Sensors)**: AF-1715-0475
- **Avionic Sensor Systems Specialist (Electro-Optical Sensors)**: AF-1715-0478
- **Integrated Avionics Systems Specialist**: AF-1715-0186
- **Integrated Avionics Systems Specialist (Electronic Sensors)**: AF-1715-0511

**Avionics**
- **Avionics Aerospace Ground Equipment Specialist**: AF-1715-0537
- **Avionics Instrument Specialist (Lateral)**: AF-1715-0176
- **Avionics Instruments Systems Specialist**: AF-1715-0462
- **Avionics Instrument Systems Technician**: AF-1715-0703
- **Avionics Munitions Staff Officer**: AF-1408-0049
- **Avionics Navigation Systems Specialist**: AF-1715-0680
- **Avionics Officer**: AF-1715-0359
- **Avionics Officer (AGM-28A)**: AF-1704-0147
- **Avionics Officer (Bomber)**: AF-1715-0536
- **Avionics Officer (Fighter)**: AF-1715-0497
- **Avionics Officer (Other)**: AF-1715-0323
- **Avionics Staff Officer**: AF-1408-0049
- **F/FB-111 Avionics AGE Maintenance Technician**: AF-1402-0027
- **Integrated Avionics Component Specialist (Navigation/Flight and Weapons Control)**: AF-1715-0476
- **Integrated Avionics Component Specialist (Navigation/Flight and Weapons Control, and Flight Data Recorder Systems)**: AF-1715-0476
- **Integrated Avionics Component Specialists (Communication/Mission and Traffic Control and Penetration Aids)**: AF-1715-0009
- **Integrated Avionics System Specialist (Navigation/Flight and Weapons Control)**: AF-1715-0476
Fuel Cell Repairs (B-52 and KC-135) AF-1704-0019
Mechanical Accessories and Equipment Repairman, B-52 AF-1704-0017
Turret System Mechanic (B-52; A-3A) AF-1715-0482
Turret Systems Gunner, B-52(A-3A) AF-1715-0205
Upgrading, B-52 Aircraft AF-1606-0115
Upgrading, B-52 Aircraft (AN/ASQ-38 Weapons Control System) AF-1606-0115

Fuel Cell Repairs (B-52 and KC-135)
Mechanical Accessories and Equipment Repairman, B-52
Turret System Mechanic (B-52; A-3A)
Turret Systems Gunner, B-52(A-3A)
Upgrading, B-52 Aircraft
Upgrading, B-52 Aircraft (AN/ASQ-38 Weapons Control System)

B-52C/D
Bomb Navigation System Mechanic (B-52C/D; ASB-15 System)
Bomb Navigation Systems Mechanic (B-52C/D; ASB-15 System)

B-52E
Bomb Navigation System Mechanic (B-52E, F, G; ASB-4A/9A/16 Systems)
Bomb Navigation Systems Mechanic (B-52E, F, G; ASB-4A/9A/16 Systems)

B-52G
Aircraft Hydraulic Repairman B-52G AF-1704-0098
Aircraft Mechanic B-52G AF-1704-0058
B-52G Fuel System Repairman and Wet Wing Sealing AF-1704-0174

B-52H
Aircraft Electrical Repairman, B-52H AF-1704-0167
Aircraft Mechanic, B-52H AF-1704-0172
B-52H A-14 Autopilot, AN/AVN-8 HVR Systems and MD-1 Astro Compass AF-1721-0003
B-52H Turbofan Engine Field and Organizational Maintenance AF-1704-0073
Defensive Fire Control System Mechanic (B-52H, ASG-21/Turret) AF-1704-0154
Defensive Fire Control Systems Mechanic (B-52H, ASG-21/Turrets) AF-1704-0154

B-57
USAF Combat Flying School, Light Bomb Jet (B-57)—Observer AF-1606-0121
USAF Combat Flying School, Light Bomb Jet (B-57)—Pilot AF-1606-0120

B-58
Automatic Flight Control Systems Specialist (B-58) AF-1715-0539
Automatic Flight Control Systems Specialist (Fighters and B-58) AF-1715-0543
Automatic Flight Control Systems Technician (Fighters and B-58) AF-1715-0378
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Flight Control/Autopilot Systems Repairman (B-58) AF-1715-0539
Ground Support Air Conditioner (B-58) AF-1701-0003
Repair of Bonded and Brazed Honeycomb Structures (B-58) AF-1704-0025
Upgrading, B-58 Aircraft AF-1606-0133
Upgrading B-58 Aircraft (AN/ASQ-42 Weapons Control System) AF-1606-0133

B-66
K-5 Bomb-Navigation System (B-66) AF-1715-0410
Turret Systems Gunner, B-66 (MD-1) AF-1715-0206
Upgrading B-66 Aircraft AF-1606-0136

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Aleutian DEW Line Baker AF-1729-0006

Baker-Nunn
Baker-Nunn Electronic Maintenance AF-1715-0717
Baker-Nunn Photographic Maintenance AF-1721-0005

Baking
AF-1729-0008

Ballistic
AF-1715-0631

Ballistic Missile Analyst Specialist (HGM-16F) AF-1715-0295
Ballistic Missile Analyst Specialist (HGM-25A) AF-1715-0662
Ballistic Missile Analyst Specialist (LGM-25C) AF-1715-0376
Ballistic Missile Analyst Specialist (PGM-16D) AF-1715-0294
Ballistic Missile Analyst Specialist (PGM-16E) AF-1715-0300
Ballistic Missile Analyst Specialist (SM-65D) AF-1715-0294
Ballistic Missile Analyst Specialist (SM-65E) AF-1715-0300
Ballistic Missile Analyst Specialist (SM-65F) AF-1715-0295
Ballistic Missile Analyst Specialist (SM-68A) AF-1715-0662
Ballistic Missile Analyst Specialist (WS-133A) AF-1715-0344
Ballistic Missile Analyst Specialist (WS-133B) AF-1715-0731
Ballistic Missile Analyst Specialist (WS-133A) AF-1715-0345
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**Ballistic Missile Checkout Equipment Specialist (HGM-25A):** AF-1715-0173
**Ballistic Missile Checkout Equipment Specialist (SM65D):** AF-1715-0316
**Ballistic Missile Checkout Equipment Specialist (SM-65E and F):** AF-1715-0161
**Ballistic Missile Check-Out Equipment Specialist (SM-68A):** AF-1715-0173
**Ballistic Missile Check-Out Equipment Specialist (SM-68B):** AF-1715-0160
**Ballistic Missile Check-Out Equipment Specialist, SM-80:** AF-1715-0299
**Ballistic Missile Check-Out Equipment Specialist/Technician, SM-68B:** AF-1715-0304
**Ballistic Missile Check-Out Equipment Specialist, WS-133A:** AF-1715-0299
**Ballistic Missile Check-Out Equipment Technician, SM-80:** AF-1715-0108
**Ballistic Missile Control Mechanic (HGM-25A):** AF-1715-0297
**Ballistic Missile Control Mechanic (SM-65E and F):** AF-1715-0171
**Ballistic Missile Inertial Guidance Mechanic:** AF-1715-0321
**Ballistic Missile Inertial Guidance Mechanic (SM-68A):** AF-1715-0321
**Ballistic Missile Inertial Guidance Mechanic/Technician:** AF-1715-0297
**Ballistic Missile Inventory Management and COMLOGNET Procedures:** AF-1405-0022
**Ballistic Missile Inventory Management Procedures and LOGRALNET Operations:** AF-1405-0022
**Ballistic Missile Launch Equipment Repairman (SM65E & F):** AF-1715-0435
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**Base**
**Advanced Base Procurement Management:** AF-1405-0029
**Base Level Military Personnel System (BLMPS)/Personnel Data System (PDS) Work Center Operations, Phase II:** AF-1402-0060
**Base Level Military Personnel System, (BLMPS), Phase II:** AF-1402-0060
**Base Procurement Officer:** AF-1405-0014
**Base Supply Trainer:** AF-1405-0038

**Basic**
**Defense Language Institute Basic Courses (1954-1956):** DD-0602-0001
**Defense Language Institute Basic Courses (After 1956):** DD-0602-0002

**Basic-Intermediate**
**Defense Language Institute Extended or Basic-Intermediate Courses:** DD-0602-0005

**Beacon**
**Special Training on Airborne Radar Beacon AN/APN-69 (Depot):** AF-1715-0421
**Special Training on Airborne Radar Beacon AN/APN-69 (Field and Organizational):** AF-1715-0421

**Beacons**
**Flight Facilities Equipment Repairman (Ranges and Beacons):** AF-1715-0253

**BEAMS**
**Programs and Work Control Technician (BEAMS):** AF-1408-0045

**Bengali**
**Bengali:** AF-0602-0007
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**Bio-Environmental**
**Bio-Environmental Engineering:** AF-0707-0003

**Biomedical**
**Biomedical Equipment Maintenance Specialist:** AF-1715-0001

**BLMPS**
**Base Level Military Personnel System (BLMPS)/Personnel Data System (PDS) Work Center Operations, Phase II:** AF-1402-0060
**Base Level Military Personnel System (BLMPS), Phase II:** AF-1402-0060
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**Block**
**Aircraft Jet Engine Block Test Mechanic:** AF-1704-0050
**Jet Engine Block Test and Vibration Analyzer:** AF-1704-0015
**Jet Engine Block Test Mechanic:** AF-1704-0030

**BMEMS**
**BMEMS Surveillance Officer:** AF-2203-0011
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**Body**
**Vehicle Body Repair:** AF-1703-0002
**Vehicle Body Repair:** AF-1703-0011

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**Aircr" Transition—Medium Bomb-Jet (Aircraft Commander/Pilot):** AF-1606-0038
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**AN/MSQ-35 Radar Bomb Scoring Central F/O:** AF-1715-0363
**Bomb-Navigation System Mechanic (ASB-15 System):** AF-1715-0485
**Bomb Navigation System Mechanic (B-52C/D: ASB-15 System):** AF-1715-0485
**Bomb Navigation System Mechanic (B-52E, F, G, H, ASB-4A/9A/16 Systems):** AF-1715-0483
**Bomb Navigation System Mechanic (K, MA-6A, MA-7A Systems):** AF-1715-0262
**Bomb Navigation System Mechanic (MA-6A, MA-7A Systems):** AF-1715-0267
**Bomb Navigation System Mechanic (MA-6A, MA-7A Systems) Televised:** AF-1715-0265
**Bomb Navigation Systems (Flight Line Mechanic):** AF-1715-0264
**Bomb Navigation Systems Mechanic (ASB-4/4A/9A/16 Systems):** AF-1715-0483
**Bomb Navigation Systems Mechanic (ASB-4A/9A/16 Systems):** AF-1715-0483
**Bomb Navigation Systems Mechanic (ASB-4 Systems):** AF-1715-0483
**Bomb Navigation Systems Mechanic (B-52C/D: ASB-15 System):** AF-1715-0485
**Bomb Navigation Systems Mechanic (B-52E, F, G, H, ASB-4A/9A/16 Systems):** AF-1715-0483
**Bomb Navigation Systems Mechanic (FB-111):** AF-1715-0006
Bombardier

Navigator Bombardier AN/ASQ-38(V)
AF-1606-0120

Navigator Bombardier (AN/ASQ-48)
AF-1606-0080

Navigator Bombardier (ASQ-48)
AF-1704-0185

Navigator Bombardier Training
AF-1606-0106

Navigator Bombardier Upgrade Training
AF-1606-0080

Navigator Bombardier Upgrade Training (ASQ-38)
AF-1606-0115

Navigator-Bombardier Upgrade Training (ASQ-42)
AF-1606-0133

Navigator-Bombardier Upgrade Training (ASQ-48)

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AF-1606-0084

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AF-1715-0536

Automatic Flight Control Systems Specialist (Bomber)
AF-1715-0542

Automatic Flight Control Systems Technician (Bomber/Tanker)
AF-1715-0526

Avionics Officer (Bomber)
AF-1715-0536

B-58 Bomber Defense Officer
AF-1606-0118

Weapons Mechanic, Bomber
AF-1715-0594

Weapons Mechanic, Fighter Bomber
AF-1715-0597

Bonder

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AF-1704-0025

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Repair of Bonded Honeycomb Structures
AF-1704-0025

BORB-36/47/52

Basic Observer Reconnaissance BORB-36/47/52
AF-1606-0079

Bridge

Crown and Bridge Dental Prosthetics
AF-0701-0011

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Broadcast Officer
DD-0505-0002

Broadcast Specialist
DD-0505-0001

Broadcaster

Informatics Specialist (Broadcaster)
DD-0505-0001

Budget

Budget Officer
AF-1408-0061

Budget Specialist
AF-1408-0017

BUIC

BUIC Computer Programming
AF-1402-0061

BUIC III Air Surveillance for Radar Inputs Countermeasures
AF-1715-0013

Officer/Technician

BUIC III Computer Programmer
AF-1402-0052

BUIC III I/O Display System
AF-1402-0051

Maintenance
AF-1715-0014

BUIC III Operator
AF-1715-0112

BUIC III Operator
AF-1715-0114

BUIC Systems Computer Programmer
AF-1402-0051

Electronic Computer Repairman BUIC
AF-1715-0077

AN/GSA-51A

Electronic Computer Systems Repairman
AF-1715-0047

BUIC AN/GSA-51A

Electronic Computer Systems Repairman
AF-1715-0047

BUIC AN/GK-19

Weapons Controller/Technician, BUIC III
AF-1402-0056

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AF-1710-0010

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AF-1715-0597
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- C-5 Flight Engineer Technician AF-1704-0033
- C-5 Navigator AF-1606-0016
- C-5 Pilot AF-1606-0023
- Flight Engineer School, C-5 AF-1704-0033

**C-9**
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**C-9A**
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**Cable**
- Cable and Antenna Installation Specialist AF-1714-0015
- Cable Splicer AF-1714-0016
- Cable Splicing Specialist AF-1714-0016
- Cable Splicing Specialist (General) AF-1714-0006
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- Missile System Cable Splicing Specialist AF-1714-0018

**CADC**
- F-111 CADC Test Station Technician AF-1715-0054
- FB-111 Central Air Data Computer (CADC) Test Station Technician AF-1715-0092

**Cadet**
- Aviation Cadet Pre-Flight (Pilot) AF-1606-0109
- Aviation Cadet Pre-Flight (Pilot and Navigator) AF-1606-0109
- Primary-Basic Observer Cadet AF-1606-0034

**Caliber**
- 50 Caliber Machinegun AF-2203-0037

**Calibration**
- Advanced Microwave Measurement and Calibration AF-1715-0181
- Advanced Microwave Measurements and Calibration AF-1715-0549
- Aircraft Engine Test Stand Calibration AF-1704-0057
- Aircraft Engine Test Stand Calibration AF-1704-0059
- Digital Voltmeter, Theory and Calibration AF-1715-0355
- Electronic Test Equipment Calibration and Repair (Tektronix) AF-1715-0096
- M37-T1 Test Stand, Maintenance and Calibration AF-1704-0176
- Radar Siting, Calibration and Evaluation AF-1715-0281

**Cambodian**
- Cambodian AF-1715-0141

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**Camera**
- Camera Repairman AF-1715-0704
- Still Photographic Camera Specialist AF-1709-0200

**Card**
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- Data Processing Machine Supervisor (Punched Card) AF-1402-0036

**Cardiopulmonary**
- Cardiopulmonary Laboratory Specialist AF-0702-0001
- Cardiopulmonary Laboratory Technician AF-0702-0002

**Cargo**
- Advanced Air Transportation Cargo AF-0419-0014
- Air Cargo Specialist AF-0419-0023
- Air Cargo Specialist (Reserve) AF-0419-0024
- Air Transportation of Dangerous Cargo and Nuclear Weapons AF-0419-0017
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**Carpentry**
- Carpenter Specialist AF-1716-0009

**Carrier**
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- Radio Relay Equipment Repairman (Carrier) AF-1715-0123
- Radio Relay Equipment Repairman (Carrier and Antrac Equipment) AF-1715-0120

**Cartographic**
- Advanced Photogrammetric Cartographic AF-1709-0013
- Advanced Photogrammetric Cartographic Techniques DD-1601-0005
- Basic Photogrammetric Cartographic Techniques DD-1601-0001
- Cartographic Drafting AF-1601-0024
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- Photogrammetric-Cartographic Technician AF-1709-0013

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**C-E**
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- Transmission AN/GOO-13 Rotating Beam Cellometer AF-1715-0141
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Specialized Combat Training (Phase II) AF-1728-0011
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- **Crown and Bridge Dental Prosthetics**: AF-0701-0017
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- **Dental Laboratory Technician**: AF-0701-0014
- **Dental Specialist**: AF-0701-0013
- **Dental Technician**: AF-0701-0009
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  - Electrical Power Production, Aleutian DEW Line: AF-1712-0002
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  - Electronic Digital Computer Repairman (Display Equipment/412L): AF-1715-0059
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  - Disbursement Accounting Specialist: AF-1401-0006
- **Disbursing**
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  - Disaster Control Officer: AF-0802-0017
  - Disaster Control Specialist: AF-0802-0005
  - Disaster Preparedness: AF-0802-0001
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- **Digitizer**
  - Common Digitizer, AN/FVQ-40, F & O: AF-1402-0021
Disposal
- Disposal Management
- Disposal Specialist

Dog
- Combat Patrol Dog
- Patrol Dog Explosives Detection
- Patrol Dog Handler
- Patrol Dog Handler Supervisor
- Patrol Dog Handler Transmitter
- Patrol Dog Marijuana Detection
- Sentry Dog Handler
- Sentry Dog Handler (Air Policie)
- Sentry Dog Handler Supervisor
- Sentry Dog Replacement

Doppler
- Aircraft Electronic Navigation Equipment Repairman (Doppler Supplement)
- Aircraft Inertial and Radar Navigation System Repairman (AN/APN-81/89A/99A Doppler)
- AN/APN-105/131 Doppler Maintenance
- AN/APN-175(V)-3 Doppler Navigation System Maintenance
- Avionic Inertial and Radar Navigation Systems Technician (AN/APN-81/89A/99A Doppler)

DPI
- Management/Supervision of a Data Processing Installation (DPI)

Drafting
- Cartographic Drafting
- Construction Drafting

Drug
- Drug Education and Counseling

DSIAT
- Defense Senior Interpretation and Applications Training (DSIAT) (Officer)

E-1
- E-1 Series System Mechanic
- E-1 Series System Mechanic

E-4
- E-4 (A/12) Autopilot
- E-4, E-5 and E-6 Series Systems Mechanic
- E-4, E-5, and E-6 Series Systems Technician
- Weapons Control Systems Mechanic (E-4, E-5, E-6 Systems)
- Weapons Control Systems Technician (E-4, E-5, E-6 Systems)
- Weapons Control Systems Technician (E-4, E-5, E-6 Series)

E-6
- E-6 Autopilot and N-1 Compass
- Fire Control Systems Mechanic (E-9 Series)
- Weapons Control Systems Mechanic (E-9, M-9-12 Systems)
- Weapons Control Systems Mechanic (E-9 System)
- Weapons Control Systems Technician (E-9 System)
- E-9 Systems Mechanic
- E-9 Systems Technician

EAME
- Radio Relay Equipment Repairman (EAME)

Early Warning
- Airborne Early Warning Radar Repairman (AN/APS-20E)
- Airborne Early Warning Radar Repairman (AN/APS-45)
- Airborne Early Warning Radar Specialist Principles
- Aircraft Early Warning Radar Maintenance Technician
- Aircraft Early Warning Radar Repairman (for Navy Personnel)
- Aircraft Early Warning Radar Repairman
- Aircraft Early Warning Radar Repairman

East
- Defense Language Institute Courses—East Coast Branch

EDTCC/465L
- Electronic Computer Repairman (EDTCC/465L)

EDTCC/SACCS
- Aircraft Electronic System Repairman (EDTCC/SACCS)

EDTCC/465L
- Electronic Computer Repairman (EDTCC/465L)

Egress
- Aircrew Egress Systems Repairman

Electric
- Electric Power Line Specialist

Electrical
- Advanced Electrical-Electronics Measurements
- Airborne Electrical Systems Technician (AN/ARC-106)
- Airborne Electrical Systems Technician

Electronics
- Advanced Electronic-Applications
- Electronic Computer Repairman (AN/ECP-546)

EECCM
- ECCM Operator
- ECCM Operator

Economic
- Advanced Cost and Economic Analysis

Editing
- Sound and Picture Editing Specialist

Editor
- Newspaper Editor

Elastic
- ECCM Maintenance For Armament Systems Officer

ECCM
- Electronic Computer Repairman (ECCM)

EDDIT
- Electronic Communications and Cryptographic Equipment Systems Repairman (Encrypted Digital Data Terminals) (EDDT)

E-1
- E-1 Series System Mechanic

E-4
- E-4 (A/12) Autopilot

E-5
- E-5 and E-6 Series Systems Mechanic

E-6
- E-6 Autopilot and N-1 Compass

E-9
- Fire Control Systems Mechanic (E-9 Series)

E-9 Systems Mechanic

ECM
- Airborne ECM Operator
- Aircraft ECM Maintenance Technician

Electrical Power Line Specialist

Economic
- Advanced Cost and Economic Analysis

Editing
- Sound and Picture Editing Specialist

Editor
- Newspaper Editor

EDTCC/465L
- Electronic Computer Repairman (EDTCC/465L)
- Aircraft ECM Repairman (Electronics Officer)

Electronics
- Advanced Electronic-Applications
- Electronic Computer Repairman (ECCM)

EDDIT
- Electronic Communications and Cryptographic Equipment Systems Repairman (Encrypted Digital Data Terminals) (EDDT)

Electrical Power Line Specialist

Economic
- Advanced Cost and Economic Analysis

Editing
- Sound and Picture Editing Specialist

Editor
- Newspaper Editor
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Electroplating
Heat Treatment and Electroplating of Metals  AF-1723-0003

Emergency
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Emulsion
Electronic Emission Monitor/Analysis Specialist  AF-1715-0651

EMU-12/E
EMU-12/E Generator Set  AF-1715-0698

Encrypted
Electronic Communications and Cryptographic Equipment System Repairman (Encrypted Digital Data Terminals) (EDDT)
AF-1715-0351

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Aircraft Jet Engine Block Test Mechanic
AF-1704-0050

Aircraft Maintenance Specialist, Reciprocating Engine Aircraft
AF-1704-0043

Aircraft Maintenance Technician, Reciprocating Engine Aircraft
AF-1704-0088

Aircraft Mechanic, Reciprocating Engine Aircraft
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Missile Engine Mechanic/Technician
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Missile Engine Mechanic/Technician
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Advanced Observer Aircraft Performance Engineer
AF-1704-0156

Base Civil Engineer  AF-1704-0115

Basic Observer Aircraft Performance Engineer Training  AF-1704-0044

C-141 Flight Engineer Technician  AF-1704-0016

C-5 Flight Engineer Technician  AF-1704-0031

Civil Engineer Inspector  AF-1704-0033

Communications-Electronics Engineer  AF-1704-0021

Engineer Environmental Support Specialist  AF-1715-0260

Engineer Environmental Support Specialist  AF-1715-0260

Flight Engineer Advanced Flying (HC-130) ARRS  AF-1605-0027

Flight Engineer School, C-5  AF-1704-0033

Flight Engineer Specialist  AF-1704-0027

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Flight Engineer Specialist, Reciprocating Engine Aircraft  AF-1605-0032

Flight Engineer Technician  AF-1704-0027

HC-130 Flight Engineer  AF-1605-0027

HC-130 Flight Engineer (Aircrew Training)  AF-1605-0040

Medium Bombardment Convaiitional B-29 Four-Engine Transition Engineer
AF-1605-0040

Staff Aircraft Performance Engineer  AF-1104-0001

TEMPEST for Systems Design Engineer  AF-1715-0128

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Applied Engineering  AF-1601-0022

Basic Installations Engineering Officer  AF-1601-0044

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Building Systems Engineering  AF-1601-0025

Electrical Engineering  AF-1715-0164

Engineering Entomology Specialist  AF-0101-0002

Engineering Entomology Specialist/Technician  AF-0101-0003

Executive Engineering  AF-1408-0024

Industrial Engineering Techniques  AF-1601-0023

Maintenance Engineering Production Analysis  AF-1408-0006

Management Engineering Officer  AF-1115-0007

Management Engineering Specialist  AF-1408-0012

Military Aspects of Sanitary and Industrial Hygiene Engineering
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F-111
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F-111 Communications Guidance Test Stations Technician  AF-1715-0098
F-111 Flight Controls Test Station Technician  AF-1715-0004
F-111 Indicator and Controls Test Stations Technician  AF-1715-0183
F-111 Indicators and Modules Test Station Technician  AF-1715-0718
F-111 Navigation Aids Test Stations Technician  AF-1715-0184
F-111 Penetration Aids Test Stations Technician  AF-1715-0224
F-111 Radar and Control Test Stations Technician  AF-1715-0261
F-111A
F-111A Computer/Navigation Test Station Technician  AF-1402-0024
F-111A Radar and Controls Test Stations Technician  AF-1715-0250
F-111A Weapons System Training  AF-1606-0117
F-111A Weapons System Training (Aircraft Commander)  AF-1606-0132
F-111A Weapons System Training (Mark, 1)  AF-1606-0117
F-111A Weapons System Training (NAV/PILOT)  AF-1606-0112
Weapons Control Systems Mechanic (F-111A)  AF-1715-0486
F-4
Electronic Warfare Training (Specialized F-4 Pilot)  AF-1606-0114
F-4 Aircrew Life Support Specialist  AF-1704-0180
F-4 Protective Equipment Specialist  AF-1704-0184
F-4E
Weapons Control Systems Mechanic (F-4E)  AF-1715-0610
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F-84E
Combat Crew Training Fighter (F-84E) Phase II—80 Hour Phase  AF-1606-0070
F-84F
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F-86D/L
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F-86F
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USAF Advanced Flying School, Interceptor, F-86F  AF-1606-0105
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USAF Combat Flying School, Interceptor (F-94C)—Pilot  AF-1606-0082
USAF Combat Flying School, Interceptor (F-94C)—Pilot  AF-1606-0083
Fabric
Fabric and Leather Worker  AF-1716-0002
Fabric and Rubber Products Specialist  AF-1716-0001
Fabric, Leather and Rubber Products Repairman  AF-1716-00001
Maintenance of Survival and Aircrew Protective Equipment (Fabric and Leather)  AF-1716-0001
Maintenance of Survival and Aircrew Protective Equipment (Fabric, Leather, and Rubber)  AF-1716-0003
Facilities
Flight Facilities Equipment Repairman  AF-1715-0490
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Flight Equipment Repairman (Ranges and Beacons)  AF-1715-0253
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Missile Facilities Specialist  AF-1715-0637
Missile Facilities Specialist (AVO-25)  AF-1716-0014
Missile Facilities Specialist (CMG-13B, AGE Crew)  AF-2203-0005
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Missile Facilities Specialist, IM-99B  AF-1715-0429
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Missile Facilities Specialist/Technician (SM-65F)  AF-1715-0001
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Missile Facilities Specialist, WS-133A  AF-1715-0001
Facility
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Falcon
Defense Missile Guidance Mechanic—Falcon (AIM)  AF-1715-0635
FB-111
Bomb Navigation Systems Mechanic (FB-111)  AF-1715-0006
FB-111 Central Air Data Computer (CADC) Test Station Technician  AF-1715-0092
Navigator/Bombardier System Training (FB-111)  AF-1606-0146
Navigator Bombardier Upgrade Training (FB-111)  AF-1606-0084
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Ferrous
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F/F/B-111
F/F/B-111 Avionics AGE Maintenance Technician  AF-1402-0029
F/F/B-111 Mission and Traffic Control Test Station Technician  AF-1715-0373
F/F/B-111 Navigation/Aids Test Station Technician  AF-1715-0007
F/F/B-111 Penetration Aids Test Stations Technician  AF-1715-0207
Weapons Control System Mechanic (F/F/B-111)  AF-1715-0486
Field
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Fighter
Advanced Fighter Training (T-33/F-86) (MAP/ANG)  AF-1606-0116
AFS Fighter, Jet (F-100)  AF-1606-0126
AFS Fighter, Jet (T-33)—Phase I  AF-1606-0089
Freight Traffic Specialist (FFYFS)

Radio Relay Equipmtrt Repairman (Heavy) (FPTS)

Ground Communications Equipment Repairman, FPTS

Ground Communications Equipment Repairman (Heavy, FPTS)

Radio Relay Equipment Repairman (FPTS)

Radio Relay Equipment Repairman (FPTS)(AN/FRC-39 and AN/FRC-39A)

Freight

Air Freight Specialist

Freight Traffic Specialist

FORETRAN

FORETRAN Programming

Forward

Store and Forward Communications System Computet Programmer

FPTS

Ground Communications Equipment Repairman, FPTS (Heavy)

Ground Communications Equipment Repairman (Heavy, FPTS)

Radio Relay Equipment Repairman (FPTS)

Radio Relay Equipment Repairman (FPTS)(AN/FRC-39 and AN/FRC-39A)

French

French

Forecasting

Weather Forecaster

Weather Forecaster Superintendent

Weather Forecaster Technician

Tropical Weather Analysis and Forecasting

Weather Forecasting Superintendent

Foreign Service Institute Language Programs

Foreign

Foreign Service Institute Language

Medical, Aspects of Food Handling

Food

Air Force Food Service Officer Course

Fundamentals of Liquid Fuel Systems

Fuel Systems Specialist (Conventional Fuels)

Fuel Systems Specialist (SM-68A)

Fuel Systems Specialist (SM-68B)

Fuel Systems Specialist (SM-68D)

Fuel Systems Maintenance Specialist (SM-68D/E)

Fundamentals of Missile Engine Maintenance

Funds

Nonappropriated Funds

Fusing

Weapons Fusing Systems Specialist

Weapons Fusing Systems Specialist (Electron)
HC-130
Helicopter Pilot Training (HC-130) ARRS
AF-1606-0009

H-1F/H-1F
Helicopter Pilot Training (H-1F/H-1F)(H-1F/CH-3)(H-1F/H-43)
AF-1606-0028

H-1F/H-43
Helicopter Pilot Training (H-1F/H-1F)(H-1F/CH-3)(H-1F/H-43)
AF-1606-0009

H-1N
Helicopter Instructor Pilot (H-1, H-1N, H-1F, CH-3, CH-33, HH-53)
AF-1606-0066

H-21
Helicopter/Pilot Training (H-13, H-19 and H-21)
AF-1606-0066

H-3
Helicopter Mechanic Flying (H-3) Basic
AF-1606-0037
Instructor Helicopter Flight Mechanic (H-1, H-3, H-33)
AF-1606-0002
Pilot Advanced Flying (H-3) Basic
AF-1606-0036

H-43
H-43 Firefighting
AF-1606-0129
Helicopter Pilot Transition Training (CH-3, H-43, H-1F)
AF-1606-0115

H-43B
Helicopter Instructor Training (H-43B)
AF-1406-0012

H-43/TH-IF/CH-3
Helicopter Pilot Instructor Training (H-43/TH-IF/CH-3)
AF-1606-0068

H-53
Helicopter Mechanic Flying (H-53) Basic
AF-1606-0032
Instructor Helicopter Flight Mechanic (H-1, H-3, H-53)
AF-1606-0002
Pilot Advanced Flying (H-53) Basic
AF-1606-0036

Hamilton
Hamilton Standard Propeller, C-119 Installation
AF-1704-0127

Hausa Missle
Cable Splicing Specialist (Hardened Missile Systems)
AF-1714-0018

Hausa
Hausa
AF-0602-0002

HC-130
Advanced Aircraft Loadmaster (HC-130 ARRS)
AF-1606-0028
Flight Engineer, Advanced Flying (HC-130 ARRS)
AF-1606-0027
HC-130 Advanced Loadmaster
AF-1606-0027
HC-130 Aircraft Commander (Airc rew Training)
AF-1606-0026
HC-130 Airc rew Instructor (Airc rew Training)
AF-1606-0026
HC-130 Flight Engineer
AF-1606-0027
HC-130 Flight Engineer (Airc rew Training)
AF-1606-0027

HC-130 Loadmaster (Airc rew Training)
AF-1606-0028
HC-130 Navigator (Airc rew Training)
AF-1606-0025
HC-130 Radio Operator Advanced Flying
AF-1606-0024
HC-130 Radio Operator (Airc rew Training)
AF-1606-0024
Navigator Advanced Flying (HC-130 ARRS)
AF-1606-0025
Pilot Advanced Flying (HC-130 ARRS)
AF-1606-0026
Radio Operator (HC-130) ARRS
AF-1606-0024

Health
Environmental Health Nursing Residency
AF-0703-0010
Environmental Health Specialist
AF-0707-0008
Health Services Administration
AF-1401-0017
Health Services Administration—Advanced
AF-1408-0068

Heat
Heat Treatment and Electroplating of Metals
AF-1723-0003
Heat Treatment of Ferrous and Non-Ferrous Metals
AF-1723-0003

Helicopter
Advanced Helicopter Pilot Training (H-1/CH-3/H-43/H-53)
AF-1606-0131
Advanced Helicopter Training
AF-1606-0128
Helicopter Airc rew Training
AF-1606-0035
Helicopter Firefighter Training (H-43/CH-1N)
AF-1728-0036
Helicopter Gunner
AF-1606-0035
Helicopter Instructor Pilot (H-1, H-1N, H-1F, CH-3, CH-33, HH-53)
AF-1606-0066
Helicopter Instructor Pilot Training
AF-1606-0063
Helicopter Instructor Training (H-43B)
AF-1406-0012
Helicopter Maintenance Officer
AF-1704-0120
Helicopter Mechanic
AF-1704-0079
Helicopter Mechanic, Advanced Flying (HH-3E) ARRS
AF-1606-0037
Helicopter Mechanic Advanced Flying (HH-53) ARRS
AF-1606-0037
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Helicopter Mechanic (Flight)
AF-1606-0035
Helicopter Mechanic Flying (H-3) Basic
AF-1606-0037
Helicopter Mechanic Flying (H-53) Basic
AF-1606-0037
Helicopter Mechanic HH-1F
AF-1704-0094
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AF-1704-0096
Helicopter Mechanic (HH-53)
AF-1704-0093
Helicopter Mechanic, Rotary Wing
AF-1704-0093
Helicopter Mechanic, UH-1F
AF-1704-0093
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AF-1704-0093
Helicopter Mechanic (UH-1N)
AF-1704-0095
Helicopter Pilot Conversion Training (H-1F)
AF-1605-0113
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AF-1605-0112
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AF-1406-0016
Helicopter Pilot Instructor Training (H-43/TH-IF/CH-3)
AF-1606-0068
Helicopter Pilot Training (CH-36)
AF-1606-0010
Helicopter Pilot Training (H-13, H-19 and H-21)
AF-1606-0006
Helicopter Pilot Training, H-19/H-21
AF-1606-0006
Helicopter Pilot Training, H-19/H-21/H-43B
AF-1606-0006
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AF-1606-0008
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AF-1606-0007
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AF-1606-0009
Helicopter Pilot Transition Training (CH-3, H-43, H-1F)
AF-1606-0111
Helicopter Pilot Transition Training (TH-1)
AF-1606-0091
Instructor Helicopter Flight Mechanic (H-1, H-3, H-53)
AF-1606-0002
Instructor Pilot Instructor (Helicopter)
AF-1406-0029
Instrument Pilot Training (Helicopter)
AF-1406-0029
Undergraduate Pilot Training Helicopter (H-19/H-43B or H-19/CH-3C)
AF-1606-0006
Undergraduate Pilot Training Helicopter (T-28)
AF-1606-0005
Helium
Joy Helium Compressor Field and Organizational (F & O)
AF-1601-0029

HF
Special Radio Maintenance Technician (HF)
AF-1601-0029
HF Liaison Equipment AN/ARC-21
AF-1715-0078
Special Training, AN/ARC-21 HF
Liaison Equipment
AF-1745-0078

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HF Radio
Special Training, AN/ARC-58 Single Sideband HF Radio Set
AF-1715-0083

HGM-16F
Ballistic Missile Analyst Specialist (HGM-16F)
AF-1715-0295
Liquid Fuel Systems Maintenance Specialist (HGM-16F)
AF-1601-0028
Missile Facilities Specialist (HGM-16F)
AF-1715-0437
Missile Launch/Missile Officer (Atlas HGM-16F)
AF-1715-0636
Nuclear Weapon Specialist (Re-Entry Vehicle) (HGM-16F)
AF-1715-0640

HGM-25
Liquid Fuel Systems Maintenance Specialist (HGM-25)
AF-1601-0032

HGM-25A
Ballistic Missile Analyst Specialist (HGM-25A)
AF-1715-0672
Ballistic Missile Checkout Equipment Specialist (HGM-25A)
AF-1704-0136
Ballistic Missile Control Mechanic (HGM-25A)
AF-1715-0155
Guidance and Control Officer (RIGS) (HGM-25A)
AF-1715-0321
Missile Engine Mechanic (HGM-25A)
AF-1715-0672
Missile Facilities Specialist (HGM-25A)
AF-1715-0436
Missile Mechanic (HGM-25A)
AF-1704-0155
Missile Pneumatic Repairman (HGM-25A)
AF-1704-0113

HH-1H
Helicopter Mechanic HH-1H
AF-1704-0094

HH-3E
Helicopter Mechanic Advanced Flying (HH-3E) ARRS
AF-1606-0037
Pilot Advanced Flying (HH-3E) ARRS
AF-1606-0036

HH-43
Pilot Advanced Flying (HH-43) ARRS
AF-1606-0128

HH-43B
Helicopter Mechanic, HH-43B
AF-1704-0096

HH-53
Automatic Flight Control System Technician (HH-53)
AF-1715-0330
Electrical Repair Technician (HH-53)
AF-1715-0586
Helicopter Instructor Pilot (HH-3, HH-53, HH-53B)
AF-1606-0066
Helicopter Mechanic Advanced Flying (HH-53) ARRS
AF-1606-0037
Helicopter Mechanic (HH-53)
AF-1704-0028
Pilot Advanced Flying (HH-53) ARRS
AF-1606-0036
Pneumatic Repairman (HH-53)
AF-1704-0161

High
High Reliability Soldering and Connections
AF-1715-0728
High Speed Paper Tape Reader and Punch/DSSCS
AF-1715-0394
High Value Soldering and Microelectronic Repair Techniques
AF-1715-0388
Welding of High Performance Aircraft and Missile Systems
AF-1723-0005

Hindi
Hindi/Urdu
AF-0602-0007
AF-0602-0011

Histopathology
Histopathology/Cytotechnology Specialist
AF-0702-0006

Historian
Unit Historian Development
AF-2203-0007

HM4118
HM4118 Computer Display Equipment (407L)
AF-1715-0052
HM4118 Computer Programmer Tactical and Control System
AF-1402-0033
HM4118 Electronic Computer Repairman/Operator/407L
AF-1715-0392

HN-10 MUX
HN-10 MUX O/I Maintenance
AF-1715-0036

Honeycomb
Bonded Honeycomb and Structural Sealing (B-52/KC-135)
AF-1704-0025
Repair of Bonded and Brazed Honeycomb Structures (B-58)
AF-1704-0025
Repair of Bonded Honeycomb Structures
AF-1704-0025

Hospital
Executive Hospital Housekeeper
AF-0902-0001
Refresher Course in Hospital Administration
AF-0799-0003
Senior Hospital Administration
AF-0799-0002

Household
Passenger and Household Goods Specialist
AF-0419-0008
AF-0419-0025

Housekeeper
Executive Hospital Housekeeper
AF-0902-0001

HTM-25B
Missile Launch/Missile Officer (Titan I, HTM-25B)
AF-1715-0670

Human
Human Relations Advisor
AF-1513-0001

Hungarian
Hungarian
AF-0602-0007
AF-0602-0015
DD-0602-0001
DD-0602-0002
DD-0602-0003

Hydraulic
Aircraft and Hydraulic Repairman
AF-1704-0041
Aircraft and Missile, Hydraulic Repairman
AF-1704-0041
Aircraft and Missile Hydraulic Technician
AF-1704-0014
Aircraft Hydraulic Repairman
AF-1704-0041
Aircraft Hydraulic Repairman B-52
AF-1704-0098
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AF-1704-0095
Aircraft Hydraulic Repairman C-130A
AF-1704-0100
Aircraft Hydraulic Repairman, T-100D/F
AF-1704-0065
Aircraft Hydraulic Repairman, F-102A
AF-1704-0124
Aircraft Hydraulic Technician
AF-1704-0014

KC-135 Aircraft Hydraulic Repairman
AF-1704-0118
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AF-1704-0118

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AF-1402-0043

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AF-1715-0103
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Interceptor (T-33/F-94C) Pilot

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Defense Senior Interpreters and Applications Training (DSIAT) Officer

Imagery Interpretation

Navy Specialized Imagery Interpretation

Photographic Interpretation

Radio Interpretation Specialist

Photo Interpretation Specialist

Imagery Interpreter Specialist

Radiograph Interpreter

Interpreter

Image Interpreter Specialist

Radio Interpreter Specialist

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USAF Combat Flying School, Interceptor (T-33/F-86)—Radar Observer

USAF Combat Flying School, Interceptor (F-104) —Pilot

USAF Combat Flying School, Interceptor (T-33/F-86)—Pilot

USAF Combat Flying School, Interceptor (F-94C)—Pilot

USAF Combat Flying School, Interceptor (F-104)—Pilot

USAF Combat Flying School, Interceptor (F-94C)—Pilot

USAF Combat Flying School, Interceptor (F-94C)—Pilot

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Weapon Operator, Counterintelligence Specialist

Weapon Operator, Counterintelligence Specialist
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AF-1715-0660
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AF-2203-0042
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Missile Launch Officer, WS-133B
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Weapons Control Systems Mechanic
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AF-1715-0445

Weapons/Controls Mechanic
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Weapons Control Systems Technician
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AF-1715-0558

Weapons Control Systems Technician
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AF-1715-0595

Weapons Control System Technician
(MG-3, MG-10 Radar)
AF-1715-0557

MGM-13A
Missile Launch Officer (MGM-13A)
AF-1715-0660

Tactical Missile Guidance Mechanic
(MGM-13A)
AF-1715-0484

Tactical Missile Launch Specialist
(MGM-13A)
AF-1715-0666
AF-1715-0675

MGM-13B
Missile Mechanic (Mace, MGM-13B)
AF-1715-0272

Missile Mechanic (MGM-13B)
AF-1715-0727

Tactical Missile Checkout Equipment Repairman (MGM-13B(TEMS))
AF-1715-0646

Tactical Missile Launch Specialist
(MGM-13B)
AF-1715-0666
AF-1715-0675

MGM-13C
Missile Launch Officer (MACE, MGM-13C)
AF-1715-0658

Missile Mechanic (MACE, MGM-13C)
AF-1715-0726

Tactical Missile Guidance Mechanic
(MACE, MGM-13C)
AF-1715-0681

Tactical Missile Launch Specialist
(Mace, MGM-13C)
AF-1715-0657

Microelectronic

High Value Soldering and Microelectronic Repair Techniques
AF-1715-0388

Microwave

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AF-1715-0181

Advanced Microwave Measurements
AF-1715-0220

Advanced Microwave Measurements and Calibration
AF-1715-0549

Radio Relay Equipment Repairman
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AF-1715-0085

Radio Relay Equipment Repairman
(Microwave and Associated Relay Center Equipment)
AF-1715-0085

Radio Relay Repairman (Microwave)
AF-1715-0085

Midwifery
Nurse-Midwifery Residency
AF-0703-0002

Military

Basic Military Journalist
DD-0504-0001

Military Aspects of Sanitary and Industrial Hygiene Engineering
AF-0707-0001

Military Training Instructor
AF-5312-0002

Prior Service Military Training
AF-2203-0044

Min-Moneywell
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AF-1730-0006

Minuteman III
Nuclear Weapons Specialist (Minuteman III Re-Entry System)
AF-2203-0012

Missile

Aircraft and Missile Electrical Repairman
AF-1704-0114

Aircraft and Missile Electrical Repair Technician
AF-1704-0165

Aircraft and Missile Ground Support Equipment Repairman
AF-1717-0012

Aircraft and Missile Ground Support Equipment Repairman
AF-1715-0605

Aircraft and Missile Ground Support Equipment Repairman (Ballistic Missiles)
AF-1715-0631

Aircraft and Missile Hydraulic Repairman
AF-1704-0041

Aircraft and Missile Hydraulic Technician
AF-1704-0014

Aircraft and Missile Maintenance Analysis Specialist
AF-1115-0001

Aircraft and Missile Pneudraulic Repairman
AF-1704-0041

Aircraft and Missile Pneudraulic Repair Technician
AF-1704-0014

Air Launched Defense Missile Safety Officer
AF-0802-0012

Air Launched Missile Safety Officer
AF-0802-0009

Air Launched Missile Safety Officer/Technician
AF-0802-0010

Air Launched Missile Safety Technician
AF-0802-0001

Air Launched Strategic Missile Safety Officer
AF-0802-0013

Air Launched Tactical Missile Safety Officer
AF-0802-0014

Air Launch Missile Analyst Mechanic
(AF-28A/B)
AF-1715-0454

Air Launch Missile Analyst Technician
(AF-28A/B)
AF-1715-0158

Air Launch Missile Checkout Equipment Repairman (AGM-28A/B)
AF-1715-0648

Air Launch Missile Guidance Mechanic
(AF-28A/B)
AF-1715-0649

Air Launch Missile Guidance Technician
(AF-28A/B)
AF-1715-0155

Ballistic Missile Analyst Specialist
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AF-1715-0295

Ballistic Missile Analyst Specialist
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Ballistic Missile Analyst Specialist, WS-133B
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Ballistic Missile Check-Out Equipment Specialist (SM-65F)
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Ballistic Missile Check-Out Equipment Specialist (SM-68A)
AF-1715-0173

Ballistic Missile Check-Out Equipment Specialist (SM-68B)
AF-1715-0160

Ballistic Missile Check-Out Equipment Specialist, WS-80
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Ballistic Missile Check-Out Equipment Specialist, Technician, SM-68B
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Ballistic Missile Check-Out Equipment Specialist, WS-133A
AF-1715-0299

Ballistic Missile Check-Out Equipment Specialist, WS-133B
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Ballistic Missile Control Mechanic
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AF-1715-0296

Ballistic Missile Control Mechanic (SM-68A)
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Ballistic Missile Control Mechanic (SM-68A)
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AF-1715-0661
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Tactical Missile Checkout Equipment Repairman (MGM-13B(TEMS))
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AF-1715-0646
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AF-1715-0641
Tactical Missile Control Mechanic (TM-76A/B)
AF-1715-0162
Tactical Missile Guidance Mechanic and Checkout Equipment Repairman (TM-76B, TEMS)
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Tactical Missile Guidance Mechanic (CGM-13B)
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AF-1728-0033
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Morse Operator, Preparatory
AF-1409-0001
Morse Systems Operator
AF-2203-0032
Non-Morse Intercept Operator Preparatory
AF-1409-0001
Mortar
81MM Mortar/Fire Direction Center
AF-2203-0017
Motion
Motion Picture Laboratory Specialist
AF-1709-0025
Motor
Motor Transportation Supervisor
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Motor Vehicle Maintenance Management
AF-0419-0019
Motor Vehicle Maintenance Officer
AF-1405-0019
Motor Vehicle Management Officer
AF-1405-0019
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AF-1606-0013
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AF-2203-0022
Aerospace Munitions Staff Officer
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Observer

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AF-1704-0015

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AF-1606-0046

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AF-1606-0046

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AF-1606-0076

Advanced Observer Tactical Reconnaissance and Bombardment Training
AF-1606-0076

Aircraft Observer Technical Upgrading
AF-1606-0031

Aircraft Observer Training - Pilot
AF-1606-0030

Aircraft Observer Upgrade Training
AF-1606-0031

Aircrew Transition - Medium Bomb-Jet (Aircraft Observer)
AF-1606-0039

Basic Observer Aircraft Performance Engineer Training
AF-1704-0116

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AF-1606-0135

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AF-1715-0564

Basic Observer Navigator
AF-1715-0564

Object

Space Object Identification Analyst
AF-3304-0040

Observer

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AF-1704-0015

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AF-1606-0030

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Basic Observer Electronic Countermeasures
AF-1715-0564

Basic Observer Navigator
AF-1715-0564

Offensive

Offensive Fire Control Systems Mechanic (MA-10, ASG-14 Systems)
AF-1715-0677

Offensive Fire Control Systems Mechanic (MA-8 System)
AF-1715-0464

Office

Automatic Central Office Equipment Repairman
AF-1715-0650

Automatic Central Office Equipment Technician (Kellogg K-60)
AF-1715-0685

Central Office Equipment Specialist (Manual)
AF-1715-0087

Dial Central Office Equipment Mechanic/Technician (SM-68)
AF-1715-0101

Dial Central Office Equipment Specialist, SM-68B
AF-1715-0682

Manual Central Office Equipment Specialist
AF-1715-0087

Office

Office Candidate School
AF-2203-0040

USAF Office Candidate School
AF-2203-0040

Offset

Offset Duplicating Equipment Operator
DD-1719-0004

Offset Printing
DD-1719-0002

Omni-Range

Special Training, Wilcox 482 Omni-Range System Maintenance Field and Organizational (F & O)
AF-1715-0190

One and Two Engines

Aircraft Maintenance Specialist, Jet
AF-1704-0036

Jet Aircraft Mechanic, One and Two Engines
AF-1704-0036

Open

Open Mess Management (Enlisted)
AF-1729-0003

Open Mess Management (Officer)
AF-1729-0007

Operating

Operating Room Specialist
AF-0709-0010

Operating Room Supervisor
AF-0703-0005

Operations

Air Passenger and Operations Specialist
AF-0419-0002

Squadron Operations Center and Data Handling Equipment Repairman
AF-1715-0339

Operator

Air Control and Warning Operator
AF-1715-0352

Air Control and Warning Operator (Manual)
AF-1715-0352

Ophthalmology

Ophthalmology Surgical Technician
AF-3706-0001

Optical

Optical Survey Instrument Repair
DD-1721-0001

Precision Dimensional and Optical Measuring Technician
AF-1721-0006

Optics

Bomb Navigation System Technician (K.
AF-1715-0563

MA-6A, MA-7A Series Stabilization and Optics
AF-1715-0563

K-Series Stabilization and Optics Technician
AF-1715-0611

Optometry

Optometry Specialist
AF-0706-0002

Organizational

Organizational Supply Specialist
AF-1405-0010

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- Outside Plant Installation and Maintenance (AF-1714-0021)
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- Outside Wire and Antenna Systems Installation and Maintenance (AF-1714-0015)
- Outside Wire and Antenna Systems Installation and Maintenance Specialist (AF-1714-0015)

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Pararescueman
- Basic Pararescueman (AF-0709-0026)
- Advanced Air Transportation Passenger (AF-0419-0003)
- Air Passenger and Operations Specialist (AF-0419-0002)
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- Air Passenger Specialist (Reserve) (AF-0419-0022)
- Passenger and Household Goods Specialist (AF-0419-0008)
- Passenger Traffic Specialist (AF-0419-0025)

Passive
- Passive Defense Instructor (AF-0802-0004)

Patrol
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- Patrol Dog Handler (AF-1728-0014)
- Patrol Dog Handler Supervisor (AF-1728-0023)

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- Pavements Maintenance Specialist (AF-1710-0007)

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Pediatrics
- Pediatrics Nurse Practitioner (AF-0703-0009)

Penetration
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- F/FB111 Penetration Aids Test Stations Technician (AF-1715-0207)
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Performance
- Advanced Observer Aircraft Performance Engineer Training (AF-1704-0115)
- Basic Observer Aircraft Performance Engineer Training (AF-1704-0116)
- Evaluation of Performance Measurement System (AF-1408-0029)
- Staff Aircraft Performance Engineer (AF-1104-0001)
- Staff Aircraft Performance Officer (AF-1107-0001)
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Persian
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Petroleum
- Ballistic Missile Analyst Specialist (PGM-16D) (AF-1715-0294)
- Missile-Pneumatic Repairman (PGM-16D) (AF-1704-0112)

PDM-16D
- Ballistic Missile Analyst Specialist (PGM-16D) (AF-1715-0294)
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PGM-16E
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- Missile Launch/Missile Officer (ATLAS PGM-16E) (AF-1715-0651)
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Pharmacy
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Assessment
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Intelligence Photo-Radar Officer
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Photo Interpretation Specialist
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Cartographic
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Technician
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Photographer
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Combat Still Photographer, Operator
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Photographer
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Still Photographer
AF-1709-0010

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Baker-Nunn Photographic
Maintenance Officer
AF-1721-0005

Integrated Avionics System Specialist

(Inertial/Bomb Navigation, Fire/Weapon
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Intelligence Precision Photographic
Officer
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Precision Photographic Services Officer
AF-1709-0006

Precision Photographic Systems
Repairman
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Precision Photographic Systems
Technician
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Still Photographic Camera Specialist
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Still Photographic-Laboratory Specialist
AF-1709-0018

Still Photographic Officer
AF-1709-0026

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DD-1719-0003

Still Photographic
AF-1709-0004

Photojournalism
AF-1601-0026

Photomapping
Photomapping
AF-1601-0026

Photoprocessing
Precision Photoprocessing Specialist
AF-1709-0022

Precision Photoprocessing Technician
AF-1709-0023

Precision Photoprocessing
Technician
AF-1709-0001

Physical
Physical Therapy (Advanced)
AF-0704-0003

Physical Therapy Specialist
AF-0704-0002

Physical Therapy Technician
AF-0704-0001

Physician
Physician's Assistant
AF-0709-0008

Physiological
Apprentice Physiological Training,
Specialist
AF-0709-0016

Physiological Training Officer
AF-0709-0017

Physiological Training Specialist
AF-0709-0016

Physiological Training Officer
AF-0709-0022

Picture
Motion Picture Laboratory Specialist
AF-1709-0025

Sound and Picture Editing Specialist
AF-1709-0011

Pilot
Advanced Flying School Transport Pilot
(C-141)
AF-1606-0019

Advanced Helicopter Pilot Training (H-1/H-3/H-43/H-53)
AF-1606-0131

Advanced Pilot Multi-Engine TB-50
Training
AF-1606-0013

Advanced Pilot Training Multi-Engine B-25
AF-1606-0014

Advanced Pilot Training Multi-Engine T-29
AF-1606-0012

Aircraft Observer Training-Pilot
AF-1606-0030

Army Primary Pilot Training
AF-1606-0143

Aviation Cadet Pre-Flight (Pilot)
AF-1606-0109

Aviation Cadet Pre-Flight (Pilot and
Navigator)
AF-1606-0109

Basic Pilot Instructor, Multi-Engine
Conventional
AF-1606-0141

Basic Pilot Training
AF-1606-0124

Basic Pilot Training, Multi-Engine
AF-1606-0125

Basic Pilot Training, Single-Engine (Jet)
AF-1606-0124

C-141 Pilot
AF-1606-0019

C-5 Pilot
AF-1606-0023

C-5A Pilot Basic
AF-1606-0049

Electronic Warfare Training (Specialized
F-4 Pilot)
AF-1606-0114

Experimental Test Pilot
AF-1606-0003

GAM-83 Pilot Ground Trainer
Operator/Maintenance
AF-1715-0022

Helicopter Instructor-Pilot (H-1, H-1N,
H-1F, CH-3, CH-5, HH-53)
AF-1606-0066

Helicopter Instructor-Pilot Training
AF-1606-0063

Helicopter Pilot Conversion Training (H-1F)
AF-1606-0113

Helicopter Pilot Conversion Training,
(H-1F/H-43)/(H-1F/CH-3)
AF-1606-0112

Helicopter Pilot Instructor Training (H-19/H-21)
AF-1604-0016

Helicopter Pilot Instructor Training (H-
43/TH-IF/CH-3)
AF-1606-0068

Helicopter Pilot Training (CH-26)
AF-1606-0010

Helicopter Pilot Training (H-13, H-19
and H-21)
AF-1606-0006

Helicopter Pilot Training, H-19/H-21
AF-1606-0006

Helicopter Pilot Training, H-43B
AF-1606-0006

Helicopter Pilot Training (CH-19/H-43B)
AF-1606-0008

Helicopter Pilot Training (H-19/H-
43)/(H-19/H-3)
AF-1606-0007

Helicopter Pilot Training (H-1/F/H-
1F)/(H-1F/CH-3)/(H-1F/H-43)
AF-1606-0009

Helicopter Pilot Transition Training
(CH-3, H-43, H-1F)
AF-1606-0111

Helicopter Pilot Transition Training (TH-
1)
AF-1606-0091

Helicopter Pilot Instructor (Helicopter)
AF-1606-0029

Instructor Pilot Instructor (Helicopter)
AF-1406-0019

Instructor Pilot Instructor Training (T-
29)
AF-1406-0019

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AF-1406-0019

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AF-1406-0019
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**Defence Contract Pricing Techniques**
- AF-1408-0003

**Quantitative Methods for Advanced Procurement Pricing**
- AF-1408-0010

**Primary**
- Aerospace Medicine Primary
  - AF-0709-0025
- Army Primary Pilot Training
  - AF-1606-0143
- Primary-Basic Navigator Training
  - AF-1606-0145
- Primary-Basic Navigator Upgrading
  - AF-1715-0621
- Primary Pilot Training (PA-18/T-6)
  - AF-1606-0110
- Primary Pilot Training (T-34/T-28)
  - AF-1606-0099

**Printer**
- Printer Systems Operator, Preparatory
  - AF-1715-0702

**Printing**
- Office Printing
  - DD-1719-0002

**Prior**
- Prior Service Military Training
  - AF-2203-0049

**Processes**
- Quality Control—Materials and Processes
  - AF-1724-0001

**Processing**
- Metals Processing Specialist
  - AF-1723-0004
- Precision Photographic Processing Control
  - AF-1709-0001
- Precision Photographic Processing Control Technician
  - AF-1709-0001
- Precision Photographic Processing Specialist
  - AF-1709-0001
- Precision Photographic Processing Technician
  - AF-1709-0001
- Precision Photographic Processing Techniques
  - AF-1709-0001

**Preventor**
- Data Processing/Display (AN/FYQ-9), Field/Organizational (E/O) Maintenance
  - AF-1715-0276

**Procurement**
- Advanced Base Procurement Management
  - AF-1405-0029
- Base Procurement Officer
  - AF-1405-0014
- Central Procurement Officer
  - AF-1405-0038
- Defense Advance Procurement Pricing
  - AF-1405-0008
- Procurement and Production Officer Fundamentals
  - AF-1408-0057
- Procurement Officer
  - AF-1408-0048
  - AF-1408-0055
- Procurement Specialist
  - AF-1405-0020
  - AF-1408-0069

**Postgraduate**
- Postgraduate Intelligence Course
  - DD-1511-0004

**Power**
- A/E24U-8 Power Plant Intermediate and Organizational (I & O) Maintenance
  - AF-1704-0143
- Electrical Power Production, Aleutian
  - AF-1712-0002
- Electrical Power Production Operator
  - AF-1712-0005
- Electrical Power Production Repairman
  - AF-1712-0004
- Electrical Power Production Repairman/Technician (SM-68)
  - AF-1712-0003
- Electrical Power Production Specialist
  - AF-1712-0005
- Electrical Power Production Specialist/Technician, SM-68B
  - AF-1712-0006
- Electrical Power Production System Maintenance (LGM-25)
  - AF-1715-0575
- Electrical Power Production Technician
  - AF-1715-0579
- Electrical Power Production Technician/Specialist, SM-65F
  - AF-1715-0432
- Electric Power Line Specialist
  - AF-1714-0001
- Power Production, Operation and Maintenance (SAGE)
  - AF-1715-0431
- Power Production Specialist (Dew Line)
  - AF-1712-0002

**P/P**
- Ground Radio Communications Equipment Repairman (Long Haul Communications G/A and P/P)
  - AF-1715-0240

**Precision**
- Precision Dimensional and Optical Measuring Technician
  - AF-1721-0006
- Precision Measuring Equipment Specialist
  - AF-1715-0032
- Precision Measuring Equipment Specialist (Electronics)
  - AF-1715-0033
- Precision Measuring Equipment Technician
  - AF-1715-0032
- Precision Photographic Processing Control
  - AF-1709-0001
- Precision Photographic Processing Control Technician
  - AF-1709-0001

**Defence Cost Price Analysis**
- AF-1408-0001
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Q System
Special Electronics Equipment Specialist, Q System
AF-1715-0350

Quality
Conventional Munitions Quality Assurance
AF-0802-0006
Quality Control—Materials and Processes
AF-1724-0001

Quantitative
Advanced Quantitative Methods in Cost Analysis
AF-1115-0004
Basic Quantitative Methods in Cost Analysis
AF-1115-0005
Quantitative Methods for Advanced, Procurement Pricing
AF-1408-0010
Quantitative Methods in Cost Analysis
AF-1115-0004

R-2
O-6 and R-2 Crash Rescue Trucks, Field and Organizational Maintenance
AF-1728-0024

R2800
Reciprocating Engine Conditioning With Analyzers (R2800 and Smaller)
AF-1704-0071

R3350
Reciprocating Engine Conditioning With Analyzers (R3350)
AF-1704-0071

R4360
Reciprocating Engine Conditioning With Analyzers (R4360)
AF-1704-0071

Race
Defense Race Relations Institute
DD-1512-0001

Radar
Advanced Navigator Radar Bombardment Training
AF-1606-0106
Airborne Early Warning Radar Repairman (AN/APS-20E)
AF-1715-0025
Airborne Early Warning Radar Repairman (AN/APS-45)
AF-1715-0029
Airborne Early Warning Radar Specialist Principles
AF-1715-0493
AF-1715-0533
Aircraft Control and Warning (AC & W) Radar Officer
AF-1715-0369
Aircraft Control and Warning (AC & W) Radar Repairman (AN/CLR-12/FLR-12)
AF-1715-0234
Aircraft Control and Warning Radar Maintenance Technician
AF-1715-0064
Aircraft Control and Warning Radar Repairman
AF-1715-0687
Aircraft Control and Warning Radar Repairman (AN/CPS-6B and AN/FPS-6)
AF-1715-0023
Aircraft Control and Warning Radar Repairman (AN/CPS-10, AN/FPS-1, AN/FSA-10, AN/FSW-1)
AF-1715-0023
Aircraft Control and Warning Radar Repairman (AN/FPS-20 and AN/FPS-6)
AF-1715-0115
Aircraft Control and Warning Radar Repairman (AN/FPS-3, AN/FPS-6)
AF-1715-0103
Aircraft Control and Warning Radar Repairman (AN/FPS-3, AN/FPS-6 and IFF)
AF-1715-0103
Aircraft Control and Warning Radar Repairman (AN/FPS-8 and AN/FPS-4)
AF-1715-0105
Aircraft Control and Warning Radar Repairman, AN/FPS-8, AN/FPS-4
AF-1715-0020
Aircraft Control and Warning Radar Repairman, AN/FPS-8, AN/FPS-4, and IFF
AF-1715-0020
Aircraft Control and Warning Radar Repairman, AN/FPS-10, AN/FPS-4, and IFF
AF-1715-0018
Aircraft Control and Warning Radar Repairman, AN/FPS-10, AN/FPS-4 and IFF
AF-1715-0018
Aircraft Control and Warning Radar Technician
AF-1715-0064
Aircraft Early Warning Radar Maintenance Technician
AF-1715-0282
Aircraft Early Warning Radar Repairman
AF-1715-0247
Aircraft Early Warning Radar Repairman (for Navy Personnel)
AF-1715-0364
Aircraft Inertial and Radar Navigation Systems Repairman
AF-1715-0027
Aircraft Inertial and Radar Navigation Systems Repairman (AN/APN-81/89A/99A Doppler)
AF-1715-0026
AF-1715-0026
Aircraft Inertial and Radar Navigation Systems Repairman (RF-4C Supplement)
AF-1715-0022
Air Traffic Control Operator (Radar)
AF-1704-0016
Air Traffic Control Operator (Radar) (Army)
AF-1704-0107
Air Traffic Control Radar Maintenance Technician
AF-1715-0397
Air Traffic Control Radar Repairman
AF-1715-0488
Air Traffic Control Radar Repairman, AN/CPS-18, AN/FPS-16
AF-1715-0676
Air Traffic Control Radar Repairman, AN/CPS-4
AF-1715-0422
Air Traffic Control Radar Repairman (AN/FPS-16 and AN/CPS-18)
AF-1715-0676
Air Traffic Control Radar Repairman, (AN/MPN-1)
AF-1715-0488
Air Traffic Control Radar Repairman (AN/TPN-12)
AF-1715-0737

Air Traffic Control Radar Technician
AF-1715-0397
AN/CPS-9 Radar Set, Organizational/Intermediate (O/I) Maintenance
AF-1715-0613
AN/FPS-24 FD Radar Maintenance, (Paper and Pencil)
AF-1715-0244
AN/FPS-26A Radar Field and Organizational (F & O) Maintenance
AF-1715-0213
AN/FPS-35 FD Radar Maintenance, (Paper and Pencil)
AF-1715-0241
AN/FPS-77 Meteorological Radar Set, Field/Organizational (F/O) Maintenance
AF-1715-0237
AN/FPS-7 Radar Maintenance (w/o AN/FSS Equipment) for FPS-26A, Experienced Personnel
AF-1715-0233
AN/FPS-7 Radar Maintenance (w/o AN/FSS Equipment) for Personnel w/o FPS-26A Experience
AF-1715-0235
AN/MSO-35 Radar Bomb Scoring Central F/O
AF-1715-0363
AN/TPS-44, Radar Organizational/Intermediate (O/I) Maintenance
AF-1715-0363
Automatic Tracking Radar Repairman
AF-1715-0368
Automatic Tracking Radar Specialist
AF-1715-0009
Automatic Tracking Radar Specialist (AN/MSO-39)
AF-1715-0405
Automatic Tracking Radar Specialist (Auto Tracking Radar Equipment)
AF-1715-0009
Automatic Tracking Radar Specialist (Radar Systems)
AF-1715-0009
Automatic Tracking Radar Specialist (Rate and Track Subsystems) (SM-65)
AF-1715-0406
Automatic Tracking Radar Specialist (SHORAN)
AF-1715-0008
Automatic Tracking Radar Technician
AF-1715-0502
Automatic Tracking Radar Technician (Automatic Tracking Radar Equipment)
AF-1715-0001
Automatic Tracking Radar Technician (Radar Equipment)
AF-1715-0021
Avionic Inertial and Radar Navigation Systems Specialist
AF-1715-0027
Avionic Inertial and Radar Navigation Systems Specialist (AN/APN-81/89A/99A Doppler)
AF-1715-0406
Bomb Navigation Systems Technician (K, MA-6A, MA-7A Radar and Interconnect)
AF-1715-0212
Bomb Navigation Systems Technician (K, MA-6A, MA-7A Series Radar Interconnects)
AF-12-0502
Bomb Navigation Systems Technician (MA-6A, 7A Radar and I/C/E)
AF-1715-0212
Bomb Navigation Systems Technician (MA-6A, MA-7A Radar and Interconnect)
AF-1715-0212
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Missile Engine Mechanic/Technician (SM-65)  AF-1601-0019
Missile Test Equipment Specialist (SM-65, 68)  AF-1704-0105

SM65
Ballistic Missile Analyst Specialist (SM65D)  AF-1715-0294
Ballistic Missile Checkout Equipment Specialist (SM65D)  AF-1715-0316
Ballistic Missile Radio Guidance Mechanic (SM65D)  AF-1715-0317
Electronic Digital Data Processing Equipment Repairman (Ballistic Missile Guidance Computer) (SM65D)  AF-1715-0701
Liquid Fuel Systems Maintenance Specialist (SM65D)  AF-1601-0031
Missile Electrical Specialist (SM65D)  AF-1715-0430
Missile Engine Mechanic (SM65D)  AF-1704-0134
Missile Facilities Specialist (SM-65D)  AF-1715-0434
Missile Facilities Specialist (SM-65D & E)  AF-1704-0139
Missile Pneumatic Repairman (SM-65D)  AF-1704-0140
Radio Inertial Ground Guidance Familiarization (SM65D)  AF-1704-0112

SM-65D/E
Liquid Fuel Systems Maintenance Specialist (SM-65D/E)  AF-1601-0034

SM-65E
Ballistic Missile Analyst Specialist (SM-65E)  AF-1715-0300
Ballistic Missile Checkout Equipment Specialist (SM-65E and F)  AF-1715-0161
Ballistic Missile Inertial Guidance Mechanic (SM-65E and F)  AF-1715-0171
Ballistic Missile Launch Equipment Repairman (SM65E & F)  AF-1715-0435
Liquid Fuel Systems Maintenance Specialist (SM-65E)  AF-1601-0034
Missile Engine Mechanic (SM-65E/F)  AF-1704-0133
Missile Launch/Missile Officer (SM-65E)  AF-1704-0175
Missile Mechanic (SM-65D)  AF-1715-0175
Missile Pneumatic Repairman (SM-65D)  AF-1704-0140
Radio Inertial Ground Guidance Familiarization (SM65D)  AF-1704-0112

SM-65
Ballistic Missile Analyst Specialist (SM-65E)  AF-1715-0300
Ballistic Missile Checkout Equipment Specialist (SM-65E and F)  AF-1715-0161
Ballistic Missile Inertial Guidance Mechanic (SM-65E and F)  AF-1715-0171
Ballistic Missile Launch Equipment Repairman (SM65E & F)  AF-1715-0435
Liquid Fuel Systems Maintenance Specialist (SM-65E)  AF-1601-0034
Missile Engine Mechanic (SM-65E/F)  AF-1704-0133
Missile Launch/Missile Officer (SM-65E)  AF-1704-0175
Missile Mechanic (SM-65E/F)  AF-1704-0140
Nuclear Weapons Specialist (Re-Entry Vehicle) (SM-65E)  AF-1715-0640

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**SM-65F**
- Ballistic Missile Analyst Specialist (SM-65F)  
  AF-1715-0295
- Ballistic Missile Analyst Technician (SM-65F)  
  AF-1715-0319
- Ballistic Missile Inertial Guidance Technician/Mechanic (SM-65F)  
  AF-1715-0313
- Control System Technician/Mechanic (SM-65F)  
  AF-1715-0094
- Electrical Power Production Technician/Specialist, SM-65F  
  AF-1715-0432
- Electrician/Supervisor (SM-65F)  
  AF-1715-0312
- Guidance System Technician/Mechanic (SM-65F)  
  AF-1715-0313
- Liquid Fuel Systems Maintenance Specialist (SM-65F)  
  AF-1601-0028
- Missile and Facility Pneudraulic Technician (SM-65F)  
  AF-1704-0146
- Missile Engine Mechanic/Technician (SM-65F)  
  AF-1704-0105
- Missile Facilities Specialist (SM-65F)  
  AF-1715-0437
- Missile Facilities Specialist/Technician (SM-65F)  
  AF-1704-0673
- Missile Ground Support Equipment Repair Technician/Repairman (SM-65F)  
  AF-1704-0159
- Missile Launch/Missile Officer (SM-65F)  
  AF-1715-0636
- Missile Pneudraulic Repairman (SM-65F)  
  AF-1704-0110
- Missile Systems Analyst Technician (SM-65F)  
  AF-1715-0213
- Missile Test Equipment Technician/Specialist (Launch Control Systems) (SM-65F)  
  AF-1715-0654
- Missile Test Equipment Technician/Specialist (Programmed Checkout Equipment) (SM-65F)  
  AF-1715-0661
- Nuclear Weapons Specialist (Re-Entry Vehicle) (SM-65F)  
  AF-1715-0640
- Plumber/Plumbing Supervisor (SM-65F)  
  AF-1710-0003
- Refrigeration Supervisor/Technician (SM-65F)  
  AF-1730-0007

**SM-68**
- Control System Mechanic/Technician, SM-68  
  AF-1715-0135
- Dial Central Office Equipment Mechanic/Technician (SM-68)  
  AF-1704-0101
- Electrical Power Production Repairman/Technician (SM-68)  
  AF-1712-0003
- Electrician/Supervisor (SM-68)  
  AF-1715-0307
- Guidance Control Officer (Computer) (SM-68)  
  AF-1715-0037
- Guidance Control Officer (RIGS) (SM-68)  
  AF-1715-0672
- Guidance System Technician (SM-68)  
  AF-1704-0126
- Guided Missile Operations/Maintenance Officer (SM-68)  
  AF-1714-0011
- Liquid Fuel Systems Maintenance Specialist, SM-65 and SM-68  
  AF-1601-0045
- Missile Electrical Repairman/Technician, SM-68  
  AF-1715-0380
- Missile Engine Mechanic/Technician, SM-68  
  AF-1704-0141
- Missile Hydraulic Repairman/Technician (SM-68)  
  AF-1704-0177
- Missile Monitoring Mechanic/Technician (SM-68)  
  AF-1704-0179
- Missile Systems Analyst Technician (SM-68)  
  AF-1715-0332
- Missile Test Equipment Technician (Propulsion and Propellants) (SM-68)  
  AF-1715-0337
- Refrigeration Specialist/Supervisor (SM-68)  
  AF-1704-0187
- Liquid Fuel Systems Maintenance Specialist (SM-68A)  
  AF-1601-0032
- Liquid Fuel System Specialist/Technician, SM-68A  
  AF-1601-0003
- Missile Electrical Specialist (SM-68A)  
  AF-1714-0206
- Missile Engine Mechanic (SM-68A)  
  AF-1704-0136
- Missile Engine Mechanic/Technician, SM-68A  
  AF-1714-0543
- Missile Facilities Specialist (SM-68A)  
  AF-1715-0670
- Missile Mechanic (SM-68A)  
  AF-1704-0155
- Missile Pneudraulic Repairman (SM-68A)  
  AF-1704-0113
- Ballistic Missile Check-Out Equipment Specialist (SM-68A)  
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- Ballistic Missile Check-Out Equipment Specialist/Technician (SM-68A)  
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- Ballistic Missile Launch Equipment Repairman (SM-68A)  
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- Ballistic Missile Analyst Specialist, SM-80  
  AF-1715-0294
- Ballistic Missile Check-Out Equipment Specialist, SM-80  
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- Ballistic Missile Checkout Equipment Technician, SM-80  
  AF-1715-0296
- Ballistic Missile Launch Equipment Repairman, SM-80  
  AF-1715-0459
- Ballistic Missile Launch Equipment Technician, SM-80  
  AF-1715-0305
- Electrician, SM-80  
  AF-1715-0589
- Missile Facilities Specialist, SM-80  
  AF-1731-0001
- Missile Facilities Technician, SM-80  
  AF-1732-0152
- Missile Launch Officer, SM-80  
  AF-1715-0319

**SM-68B**
- Ballistic Missile Check-Out Equipment Specialist (SM-68B)  
  AF-1715-0160
- Ballistic Missile Check-Out Equipment Specialist/Technician, SM-68B  
  AF-1715-0304
- Ballistic Missile Inertial Guidance-Mechanic (SM-68B) (LGM-25C)  
  AF-1715-0297
- Ballistic Missile Inertial Guidance-Mechanic/Technician (SM-68B)  
  AF-1715-0154
- Ballistic Missile Launch Equipment Repairman (SM-68B)  
  AF-1715-0179
- Ballistic Missile Launch Equipment Repairman/Technician, SM-68B  
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- Dial Central Office Equipment Specialist, SM-68B  
  AF-1715-0682
- Electrical Power Production Specialist/Technician, SM-68B  
  AF-1715-0306
- Electrician/Electrical Technician, SM-68B  
  AF-1715-0301
- Equipment Cooling Specialist/Technician, SM-68B  
  AF-1730-0001
- Fuel Specialist (Nonconventional) (SM-68B)  
  AF-1601-0047
- Fuel Specialist (SM-68B)  
  AF-1601-0005
- Fuel Specialist (Unconventional Fuels) (SM-68B)  
  AF-1601-0047
- Launch Enable System Specialist, SM-68B  
  AF-1715-0003
- Liquid Fuel System Maintenance Specialist/Technician SM-68B  
  AF-1601-0007
- Liquid Fuel Systems Maintenance Specialist (SM-68B)  
  AF-1601-0033
- Missile Engine Mechanic (SM-68B)  
  AF-1715-0134
- Missile Engine Mechanic/Technician, SM-68B  
  AF-1715-0175
- Missile Facilities Specialist (SM-68B)  
  AF-1714-0007
- Missile Facilities Specialist/Technician SM-68B  
  AF-1715-0652
- Missile Launch/Missile Officer, SM-68B  
  AF-1715-0665
- Missile Mechanic/Maintenance Technician, SM-68B  
  AF-1731-0511
- Missile Mechanic (SM-68B)  
  AF-1715-0724
- Missile Pneudraulic Repairman (SM-68B)  
  AF-1715-0173
- Nuclear Weapons Specialist (Re-Entry Vehicle) (SM-68B)  
  AF-1704-0640
- Plumber/Plumbing Supervisor (SM-68B)  
  AF-1710-0001

**SM-80**
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- Ballistic Missile Check-Out Equipment Specialist, SM-80  
  AF-1715-0299
- Ballistic Missile Checkout Equipment Technician, SM-80  
  AF-1715-0296
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Small
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Space Communications Systems Equipment Operator/Specialist  AF-1715-0470
Space Object Identification Analyst  AF-1704-0011
Space Object Identification Analyst/Technician  AF-1715-0218
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Space Systems Operator  AF-2203-0019

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Special Investigations and Counterintelligence Specialist  AF-1728-0020
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T-34/T-28
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T-58
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TACAN
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Tactics
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Tank
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Tektronix
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  - AF-1715-0073

**Transistorized**
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  - AF-1715-0194

**Transmission**
- General Purpose Automatic Transmission Maintenance
  - AF-1703-0012

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  - AF-1715-0530
- AN/APX-72 Transponder, Field/Organizational (F/O) Maintenance
  - AF-1715-0499
- AN/APX-72 Transponder, Intermediate/Organizational (I/O) Maintenance
  - AF-1715-0142
- Transponder Set AN/APX-25
  - AF-1715-0215

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  - AF-1606-0051
- Advanced Upgrade—Transport Navigation
  - AF-1606-0017
- Medium Transport (C-119) Aircrew Transition
  - AF-1606-0044
- Medium Transport (C-119) Transition
  - AF-1606-0044

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  - AF-0419-0014
- Advanced Air Transportation Passenger
  - AF-0419-0003
- Air Transportation of Dangerous Cargo and Nuclear Weapons
  - AF-0419-0917
- Air Transportation Officer
  - AF-0419-0010
  - AF-0419-0011
- Missile and Nuclear Weapons Transportation Safety
  - AF-0419-0017
- Motor Transportation Supervisor
  - AF-0419-0020
- Surface Transportation Officer
  - AF-0419-0005
- Transportation of Dangerous Cargo
  - AF-0419-0018
- Transportation of Dangerous Cargo, Nuclear Weapons and Missiles
  - AF-0419-0017
- Transportation of Dangerous Materials (Reserve)
  - AF-0419-0013
- Transportation Officer
  - AF-0419-0010
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- Transportation Staff Officer
  - AF-0419-0012

**Tropical**
- Tropical Weather Analysis and Forecasting

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Aerospace Control and Warning Systems Operator
AF-1715-0622
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AF-1715-0369
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Weather

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Each ID number begins with prefix initials which identify a specific branch of the Armed Services. The following prefixes are used:

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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
   - Department of Defense
   - Army
   - Marine Corps
   - Coast Guard
   - Navy

3. Name of service school attended:

4. Location (installation, state):

5. Length of course (in weeks):

6. Dates of attendance:
   - From: ____________________________ To: ____________________________
   - day/month/year  day/month/year

7. Official military course number:

8. MOS/AFSC/NEC:
   - □ Warrant Officers
   - □ Enlisted Personnel
   - □ Officer Candidates
   - □ Aviation Cadets
   - □ Commissioned Officers
   - □ Noncommissioned Officers

9. Course was designed for:
   - □ Warrant Officers
   - □ Enlisted Personnel
   - □ Officer Candidates
   - □ 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:

   ____________________________

SIGNATURE OF STUDENT

NAME OF STUDENT

STATUS (FRESHMAN, SOPHOMORE, ETC.)

DO NOT WRITE IN THIS SPACE
OEC/STAFF USE

SIGNATURE OF COLLEGE OFFICIAL

NAME OF COLLEGE OFFICIAL

TITLE

INSTITUTION

STREET

CITY  STATE  ZIP CODE

AREA CODE  NUMBER  EXT.
AMERICAN COUNCIL ON EDUCATION

J. W. Peltason, President

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.