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ABSTRACT

This study reports the frequency of professional tasks performed by all Wisconsin secondary school industrial education teachers and the importance of those tasks. Data are presented in seven tables and two appendixes. Tables include data on teaching experience, interpretation of median values of frequency ratings, and tasks receiving low frequency and/or importance ratings. Appendix A presents data that show the frequency rating assigned each first-level, second-level, and third-level task, and Appendix E presents data that show the importance rating assigned each task. The ranks are assigned on the basis of the median value. The interquartile range is a measure of agreement among those responding. This study is part of a larger study designed to develop a base for reevaluation of the professional segment of the master of science degree program in industrial education at the University of Wisconsin-Stout. (PD)



Development of a Base for the Re-evaluation of the Professional Segment of the Master of Science Degree Program in Industrial Education at the University of Wisconsin-Stout

Frequency and Importance of Their Part VI: Professional Tasks as Reported by All Wisconsin Secondary School Industrial Education Teachers

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STATEMENT OF THE PROBLEM

In these pages is reported a study of the professional tasks of all Wisconsin secondary school industrial education teachers. This includes junior high school, junior-senior high school, senior high school and capstone industrial education teachers who responded to this study.

More specifically, data are presented in response to two questions:

- With what frequency do all Wisconsin secondary school industrial education teachers perform professional tasks?
- 2. What importance rating do all Wisconsin secondary school industrial education teachers assign to professional tasks?

RELATION TO OTHER STUDIES

In August of 1972, a paper was prepared which reviewed the development of the task analysis studies at UW-Stout up to that point in time.¹

Since this study is based upon that development, the following outline of it is presented for information:

Introduction Need for Role Descriptions Program Development Model Position Paper Implications Identification of Tasks Development of Task Analysis Survey Instruments Processing the Data

¹Lawrence S. Wright, <u>Development of Task Analysis Studies in</u> <u>Industrial Education</u>; Graduate College, University of Wisconsin-Stout, Menomonie, Wisconsin, August, 1972.



Also, in the summer of 1972, a study was completed by six graduate students at UW-Stout.² This paper examined the professional tasks of Wisconsin industrial arts teachers (1) who taught in any or all of grades 7, 8 and/or 9 whether they also taught in senior high school or not, (2) who taught in any or all of grades 10, 11 or 12 whether they also taught in junior high school or not, and (3) who taught Capstone industrial education courses.

In the belief that a more detailed study of those who taught only grades 7, 8 and/or 9; those who taught 7, 8 and/or 9 and 10, 11 and/or 12; those who taught 10, 11 and/or 12 but not Capstone courses; and those who taught Capstone courses without regard to other levels at which they might be teaching; this study was undertaken.

This study is Part VI in the following series:

Part I: Introduction to the Problem

- Part II: Frequency and Importance of Their Professional Tasks as Reported by Wisconsin Junior High School Industrial Arts Teachers
- Part III: Frequency and Importance of Their Professional Tasks as Reported by Wisconsin Junior-Senior High School Industrial Arts Teachers
- Part IV: Frequency and Importance of Their Professional Tasks as Reported by Wisconsin Senior High School Industrial Education Teachers
- Part V: Frequency and Importance of Their Professional Tasks as Reported by Wisconsin Capstone Industrial Education Teachers

²Daniel Fara, et.al., "Professional Tasks of the Wisconsin Industrial Education Teacher" (unpublished Plan B investigation, University of Wisconsin-STout, 1972.)



- Part VI: Frequency and Importance of Their Professional Tasks as Reported by All Wisconsin Secondary School Industrial Education Teachers
- Part VII: Significant Differences Between Selected Wisconsin Industrial Education Teacher Groups with Respect to (1) Frequency and (2) Importance of Their Professional Tasks
- Part VIII: Importance of Industrial Education Teacher's Professional Tasks as Seen by a Jury of Selected Leaders in Education, Together with Significant Differences Between Responses of Selected Wisconsin Industrial Education Teacher Groups and the Jury

DISTRIBUTION OF ALL SECONDARY SCHOOL INDUSTRIAL EDUCATION TEACHERS

In the effort to learn at what grade level Wisconsin industrial education teacher-respondents were teaching, they were asked to respond to the following item:

> "Check <u>each</u> of the levels in which you are teaching one or more industrial education subjects this year":

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___6th grade ___8th grade ___10th grade ___12th grade ___7th grade ___9th grade ___11th grade ___Capstone

Data presented in Table 1 are those related to all secondary school grades. It may be noted that 18 are included who are counted as middle-junior high school. This group was not large enough to study. It consisted of 2 respondents who taught industrial arts in grades 6 and 7 and 16 respondents who taught industrial arts in grades 6, 7 and 8.

The reader may observe the numbers and percents for the other groups. For additional details or their distribution by specific grade levels, see appropriate parts of this study as listed on pages 2 and 3.

Distribution by Groups of Numbers and Percentages of All Wisconsin Industrial Education Teachers Reporting Teaching One or More Industrial Education Subjects During the 1971-72 Academic Year

Groups	N	Percent
Middle-Junior High School	18	2.1
Junior High School	213	24.7
Junior-Senior High School	204	23.7
Senior High School	282	32.6
Capstone	<u>146</u>	<u>16.9</u>
Totals	863	100.0
		•

TEACHING EXPERIENCE

Respondents were asked to indicate within categories the number of years of teaching experience including the current year (1971-72). Data presented in Table 2 shows a fairly uniform distribution within the categories ranging from 127 or 14.9 percent with from 11 to 15 years to 220 or 25.8 percent with from 3 to 5 years of experience.



Teaching Experience of 852 Wisconsin Secondary School Industrial Educition Teachers

eaching Experience in Years	Number of Teachers	Percent
1-2	141	16.6
3-5	220	25.8
6-10	204	23.9
11-15	127	14.9
More than 15	<u>160</u>	<u>18.8</u>
Total	852	100.0

FREQUENCY RATINGS

Data are presented in Appendix A which show the frequency rating assigned each first-level, second-level and third-level task as reported by those teaching industrial education subjects in the 7th through 12th grade levels in Wisconsin during the 1971-72 academic year. These ranks are assigned on the basis of the median value. The interquartile range is a measure of agreement among those responding.

It may be of interest to note the ranking of all secondary school industrial education teachers of the frequency with which they perform first-level tasks. (It may be recalled that these are cumulations of their responses to the third-level tasks.) These data are presented in Table 3.



Ranking of Frequency of First-Level Tasks by All Secondary School Industrial Education Teachers

Rank	Code Number	First-Level Task
1	5.0	Facilitate Learning
2	4.0	Nurture Humaneness
3	6.0	Manage Learning Environment
4	3.0	Design Instruction
5	9.0	Evaluate Instruction
6	<u>о</u> г	Improve Individual's Competencies
7	10.0	Evaluate Programs
8	2.0	Design Programs
9	7.0	Provide Professional Service
10	8.0	Utilize Research

The summary of the distribution of frequency ratings by first-, second-, and third-level tasks may be seen in Table 4.

IMPORTANCE RATINGS

Data are presented in Appendix B which show the importance rating assigned each first-level, second-level and third-level task as reported by those teaching industrial arts subjects in the 7th through the 12th grade levels in Wisconsin during the 1971-72 academic year. The ranks



				Tá	asks		
Range of Median Values	Frequency Interpretation		rst- vel	Sec			ird- vel
		N	%	N	%	<u> </u>	%
4.500 and higher	Weekly or More Often	0	0	6	10.5	53	16.2
3.500 - 4.499	About Once per Grad- ing Period (6-9 wks)	3	30	14	24.5	70	21.4
2.500 - 3.499	About Once per Semester	4	40	19	33.4	8 9	27.2
1.500 - 2.499	About Once per Year	3	30	13	22.8	70	21.4
1.499 and lower	Do Not Perform	0	0	5	8.8	45	13.8

Interpretation of Median (Mdn) Values of Frequency of Ratings by Wisconsin Secondary School Industrial Education Teachers

are assigned on the basis of the median value. The interquartile range is a measure of agreement among those responding.

It may be of interest to note the ranking of all secondary school industrial education teachers of the importance they attach to the first-level tasks. (It will be recalled that these are cumulations of their responses to the third-level tasks.) Data are presented in Table 5.

The summary of the distribution of importance ratings by first-, second-, and third-level tasks may be seen in Table 6.

TASKS RECEIVING LOW RATINGS

An examination was made of the tasks which received low ratings. Low ratings for frequency were those reported as "do not perform" by the median value of the respondents. Low ratings for importance were those reported as "unimportant" or as "slightly important" by the respondents. These tasks were identified in Table 7.

Ranking of Importance of First-Level Tasks by All Secondary School Industrial Education Teachers

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Rank	Code Number	First-Level Tasks
1	5.0	Facilitate Learning
2	6.0	Manage Learning Environment
3	1.0	Improve Individual's Competencies
4	4.0	Nurture Humaneness
5	3.0	Design Instruction
6	10.0	Evaluate Programs
7	9.0	Evaluate Instruction
8	2.0	Design Programs
9	7.0	Provide Professional Service
10	8.0	Utilize Research



Interpretation of Median (Mdn) Values of Importance Ratings by Wisconsin Secondary School Industrial Education Teachers

				Т	asks		
Range of Median Values	Importance Interpretation	First- Level N %		Second- Level N %		Third- Level N %	
4.500 and higher	Essential	0	0	3	5.4	42	12.8
3.500 - 4.499	Very Important	7	70	33	57.8	160	48.9
2.500 - 3.499	Moderately Important	3	30	19	33.3	109	33.4
1.500 - 2.499	Slightly Important	0	0	2	3.5	15	4.6
1.499 and lower	Unimportant	0	0	0	0	1	0.3



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Tasks Receiving Low Frequency and/or Importance Ratings by All Secondary School Industrial Education Teachers

Code Number	Task	Do Not Perform	Slightly Important
	THIRD-LEVEL_TASKS		
2.2.8	Select published taxonomy or develop a taxonomy of industry	X	
2.3.1	Identify various group cultures that may compose target populations for programs	X	X
2.3.2	Examine the characteristics of group cultures to improve understanding of attitudes, needs, and interests of those making up the culture for program-level input	X	
2.7.2	Consult with industrial and educational advisory board	X	
2.7.4	Maintain a program-level instruction evaluation log book	X	
2.7.5	Prepare follow up studies of graduates of the program	X	
2.8.7	Plan an educational program for the con- sumers of a proposed change so that they may see the value of the change	X	
6.4.6	Keep records of federal and state funding programs	X	
7.1.10	Assist students in securing and filling out job applications	X	
7.2.3	Initiate and organize special community service committees as needed	X	X
7.2.4	Participate in school accreditation visits	X	
7.3.3	Serve as class advisor	X	x

Code Number	Task	Do Not Perform	Slightly Important
	THIRD-LEVEL TASKS	<u> </u>	
7.3.4	Sponsor student club activities	x	
7.5.1	Organize and conduct workshops and in- service educational programs	X	
7.5.2	Develop adult evening extension programs	x	
7.5.3	Initiate remedial and summer programs for students	X	
7.5.4	Serve as advisor to educational suppliers in development of new resources and in- structional materials	X	X
7.6.2	Write reviews of new tests, instructional aids, and media for education journals	X	X
7.6.3	Develop written instructional materials for publication	X	X
7.7.2	Prepare the class for the arrival of student teachers	X	·
7.7.3	Assign teaching responsibilities to student teacher	X	
7.7.4	Create situations so that the student teacher can initiate the instruction activities	X	
7.7.5	Hold conferences with student teacher regarding his performance, progress and problems	X .	
7.7.7	Observe student teachers' performance in the classroom	X	
7.7.8	Offer criticism, encouragement and suggestions in joint evaluation with student-teacher	X	
8.1.3	Estimate and evaluate factors such as time, cost and value as a basis for selection of a research problem	X	
9.2.2	Write a rationale for a research study including a review of literature	X	X

Code Number	Task	Do Not Perform	Slightly Important
	THIRD-LEVEL TASKS		
8.2.4	Select and describe the research design to be used in a proposed research study	X	
8.2.5	Select a population for a particular research study	X	X
8.2.7	Develop a management strategy for the control of the research study	X	X
8.2.8	Prepare a budget estimate in fiscal terms for a research study	X	
8.2.9	Submit research proposal to appropriate funding bodies	X	
8.3.1	Collect research data by appropriate methods, e.g., historical, descriptive, experimental	X	
8.4.1	Complete preparation of preliminary draft of research report, e.g.: introduction, methods, body, conclusions, implications, bibliography, appendices	X	X
8.4.2	Formally review and revise preliminary draft of research report	X	X
8.4.3	Complete final draft of research report	X	x
8.5.3	Organize and set-up pilot programs in cooperation with other researchers	X	X
8.6.2	Inspect research reports for adequate descriptions of the major elements of the the research study	·	X
8.6.3	Evaluate the sampling procedures of research reports	X	
8.6.4	Assess the validity and reliability of research procedures	X	
8.6.6	Evaluate the conclusions of a research report	Х	X



Code Number	Task	Do Not Perform	Slightly Important
	THIRD-LEVEL TASKS		
9.2.8	Use computer to assist in analyzing test results	X .	X*
9.3.1	Administer pretests and postests	x	
9.3.5	Administer standardized tests	x	
10.1.1	Conduct program-level follow-up study	x	•
10.1.5	Select (or design) and administer tests of psychomotor abilities for evaluation of programs	X	
	SECOND-LEVEL TASKS		
7.5	Develop programs of professional service	X	
7.6	Contribute to literature of the field through technical and/or professional writing	X	
7.7	Supervise student teachers	x	
8.2	Prepare proposals for researching a problem	X	X
8.4	Write research reports	x	X

FIRST-LEVEL TASKS

No first-level tasks were reported as "do not perform" or "unimportant."

*This task was rated as "unimportant."



SUMMARY

Data has been presented which show the frequency with which all Wisconsin secondary school industrial education teachers report that they perform their professional tasks.

Data has also been presented which show the importance which all Wisconsin secondary school industrial education teachers attach to their professional tasks.

These data are part of a larger study of junior, junior-senior, senior high school and capstone teachers of industrial education subjects in Wisconsin for the purpose of re-evaluating the B.S., M.S., and Ed.S. degree programs in industrial education at UW-Stout.

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A P P E N D I X A

FREQUENCY OF TASKS PERFORMED

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Tasks of Wisconsin Secondary School Industrial Education Teachers Ranked by Median (Mdn) Value of their Response to "Task Frequency" and Including Interquartile Range (IQR)

	Median (mdn)	IQR	Code	Tasks
1	4.424	1.654	5.0	FACILITATE LEARNING
1	4.620	1.430	5.3	Interact with students in a positive manner.
1 2	4.956 4.900	0.543 0.599	5.3.3 5.3.8	
3	4.798	0.838	5.3.10	Demonstrate an attitude of fairness and commitment on issues important to students
4	4.778	1.172	5.3.11	Use knowledge of students as a basis for positive interaction during instruction
5	4.684	1.217	5.3.1	Use processes of perceiving, communicating, knowing, co-responding patterning, decision- making, creating, valuing, problem solving, and learning in interacting with students
6	4.676	1.194	5.3.2	Establish atmosphere for positive group interaction
7.5	4.385	1.317	5.3.4	Make provision for student input into instruction
7.5	4.385	1.350	5.3.7	Provide students with clear understandings of what is expected of them and what they can expect from their teacher
9	4.054	1.978	5.3.5	Plan individualized instruction with students
10	3.906	1.751	5.3.6	Use student interests in planning student activity
11	2.892	2.935	5.3.9	Recognize and interact with subcultures unique to the student population
2	4.541	1.428	5.2	Motivate students.
1	4.871	0.628	5.2.2	Win the students' attention and maintain level of arousal
2	4.695	0.985	5.2.8	Provide students immediate feedback to tests
3	4.662	1.043	5.2.6	Reward student achievement
4	4.637	1.126		
5	4.580	1.714	5.2.7	Recognize and react to behavior which merits no reward



Rank Order	Median (mdn)	IQR	Code	Tasks
6	4.530	1.498	5.2.5	Recognize and encourage evidences of
7	3.875	1.960	5.2.4	response to internal motivation Recognize and encourage evidences of response to external motivation
8	3.180	1.859	5.2.1	Determine the entering dispositions of individual students
3	4.276	1.576	5.5	Teach the substantive content of the field.
1	4.785	0.911	5.5.5	Provide experiences which contribute to the teaching of students to use processes, e.g.; perceiving, communicating, learning, deci- sion-making, organizing, co-responding, creating, valuing, problem-solving
2	4.214	1.530	5.5.1	Provide experiences which will contribute to the student's understanding of industry as
3	4.206	1.259	5.5.4	a major element in our culture Provide experiences which some students may use as a base for developing <u>a</u> vocational activities
4	3.944	2.000	5.5.3	Provide experiences for some students to prepare them for entry into appropriate industrially related occupations or to develop a base for advanced occupational education
5	3.892	1.886	5.5.2	
4	4.272	1.924	5.1	Execute instructional plans and strategies.
1 2	4.948 4.923		5.1.4 5.1.5	Present lessons and related demonstrations Be aware of whether students are working safely and take appropriate preventative and corrective measures
3 4	4.580 4.470	1.308 1.209	$5.1.1 \\ 5.1.3$	Identify individual needs of students Make students aware of instructional intent
5	3.927	1.572	5.1.6	and proposed outcomes of instruction Use educational resources in executing instructional plans
6	3.008	1.460	5.1.2	
7	2.189	1.8 94	5.1.7	



Rank Or der	Median (mdn)	IQR	Code	Tasks
5	4.047	1.898	5.4	Adjust plans and strategies based on observed feedback from students.
1 2 3 4	4.623 4.540 4.500 4.216	1.375 1.562	5.4.8 5.4.6 5.4.1 5.4.5	Capitalize on spontaneous student interests Be sensitive to solicited and unsolicited student feedback
5	4.100	1.371	5.4.2	which influence planned instruction Modify instructional methods in the light of student feedback
6	3.666	1.862	5.4.3	
7	3.602	2.263	5.4.4	
8	2.806	2.205	5.4.7	

Rank Order	Median (mdn)	IQR	Code	Tasks
2	3.945	2.093	4.0	NURTURE HUMANENESS
1	4.590	1.456	4.1	Nurture humaneness with students.
1	4.871	0.628	4.1.5	Take time to listen to students and acknow- ledge their ideas and commitments as being worthy of expression
2	4.843	0.656	4.1.2	Admits that teachers also make mistakes and learn from them
3	4.777	0.860	4.1.4	Encourage, recognize and acknowledge original ideas of studentseven though imperfect and unfinished
4	4.760	1.028	4.1.9	Encourage students to know that they are respected as individuals
5	4.670	1.236	4.1.3	Maintain atmosphere where adventure in learning is encouraged without fear of consequences of failure
6	4.651	1.435	4.1.11	Extend the positive student-teacher rela-
-7	A (15	1 400	4 1 10	tionship to include informal contacts
7 8	4.615 4.310	1.480 1.642		Provide personal guidance to students Encourage students to think of alternatives and to recognize knowledge as imperfect,
9 [°]	4.250	1.951	4.1.8	incomplete, and tentative Develop group and team learning situations to foster in students a mutual concern for one another
10	3.825	1.820	4.1.6	Help students interpret their relationship to their environment
11	2.925	3.047	4.1.7	De-emphasize inter-student competition in the classroom as a basis for student achievement
2	3.906	1.873	4.2	Nurture humaneness with the school staff.
1	4.831	0.676	4.2.1	Accept assistance from and give assistance
2	4.800	0.900	4.2.5	
3	3.670	1.778	4.2.2	with other school staff members Obtain and lend assistance to school pro- jects being developed by other staff members
4	3.435	1.727	4.2.4	Serve on and cooperate with school staff committees
5 6	3.375 3.269		4.2.3 4.2.6	Participate in school staff social events



Rank Order	Median (mdn)	IQR	Code	Tasks
4	2.911	2.011	4.3	Nurture humaneness with parents and community.
1	3.278	1.385	4.3.4	Make provisions for personal contacts with parents concerning the progress of their children
2	3.228	1.864	4.3.2	
2 3	3.217	2.802		Participate in community activities and service organizations
4	2.852	1.247	4.3.3	
5	2.810	2.290		
6	2.650	1.935	4.3.6	Become familiar with services provided by the community, e.g.; public library, museums, other schools, cultural center, etc.
7	2.086	2.236	4.3.7	Work with community service personnel, e.g.; Librarians, social workers, clergy, training schools
3	3.817	2.083	4.4	Nurture humaneness to one's self.
1	4.421	1.675	4.4.1	Employ teacher traits in balance between those required for individual self-ful- fillment and those required for successful
2	3.236	2.078	4.4.2	teaching Reassess personal objectives and take action to continue growth towards self-actualizing

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Rank Order	Median (mdn)	IQR	Code	Tasks
3	3.849	2.568	6.0	MANAGE LEARNING ENVIRONMENT
1	4.633	1.400	6.5	Respond to social-emotional climate.
1	4.925	0.574	6.5.2	Demonstrate firmness, fairness and consis- tency in dealing with discipline problems
2	4.871	0.628	6.5.5	Be responsive to human needs of student
2 3	4.816	0.836		
4	4.735	1.090		Use rewards and punishment to control deviant behavior
5	4.243	1.618	6.5.1	Identify internal and external causes of discipline problems
6	4.198	1.350	6.5.3	Develop alternate strategies for allevia- ting conditions which cause discipline
7	3.357	2.349	6.5.6	problems Use self-evaluation techniques regarding your inter-relationship with students
2	4.586	1.565	6.3	Provide for maintenance.
1	4.752	1.160	6.3.2	Diagnose maintenance problems in tools and equipment
2	4.736	1.075	6.3.4	Test and adjust tools and equipment prior to returning them to use after maintenance
3	4.225	2.013	6.3.1	Develop and carry out a routine preventative maintenance schedule
4	4.133	1.939	6.3.3	Provide for maintenance by servicing or referral for service as appropriate
3	4.564	2.607	6.4	Maintain records and filing systems.
1	4.934	0.565	6.4.1	Keep attendance records for each class taught
2	4.868	0.631	6.4.5	Keep records of student grades for each class taught
3	4.833	0.666	6.4.2	Keep student progress records for each class
4	4.548	1.720	6.4.4	
5	3.892	2.315	6.4.7	
6	2.854	2.462	6.4.3	Keep equipment and tool inventories
7	1.228	1.088		



	Median (mdn)	IQR	Code	Tasks
4	4.313	0.442	6.6	Establish physical conditions conducive to learning.
1	4.805	1.077	6.6.1	Maintain control of comfortable tempera- ture, lighting, and noise levels in classrooms and laboratories
2	4.541	1.253	6.6.3	
3	3.705	1.377	6.6.2	
5	2.775	1.963	6.2	Requisition and receive supplies and materials
1 2 3 4	3.980 3.016 2.772 2.060		6.2.3 6.2.1	Order new educational materials and supplies
6	2.354	1.774	6.1	Plan for and organize the facilities needed for the program.
1	3.815	1.876	6.1.4	Consult catalogs of industrial and educa- tional supplies for specification of equip- ment available
2	3.044	2.100	6.1.3	Plan layout for effective space utilization
3	2.500	1.804	6.1.5	to meet program needs Prepare a list of specific equipment and
4	2.367	1.230	6.1.7	
5	2.172	1.023	6.1.8	acquisition of equipment and tools Prepare, submit, and defend budget requests for equipment and tools
6 7	2.026 2.014	1.767 1.036	6.1.6 6.1.2	Write specifications for equipment and tools Write a program statement for your shop or
8	1.921	1.511	6.1.1	laboratory Identify and develop an industrial educa- tion program and the facility to house it

Rank Order	Median (mdn)	IQR	Code	Tasks
4	3.405	2.278	3.0	DESIGN INSTRUCTION
1	4.395	1.473	3.5	Select teaching activities and strategies.
1	4.652	1.146	3.5.2	
2	4.507	1.442	3.5.3	into instructional plans Make decisions concerning the extent to which the instruction is to be individu-
3	3.906	1.898	3.5.1	alized Plan strategies for teaching including meeting the needs of special groups
2	3.927	2.128	3.9	Prepare lesson plans for group and indi- vidualized instruction.
1	4.658	1.211	3.9.2	Identify and select learning activities for students
2	4.547	1.534	3.9.7	Sequence presentation of instructional
3	4.390	1.448	3.9.6	materials Keep records of lessons planned and sugges-
4	3.588	1.778	3.9.4	tions for improvement Identify and select appropriate learning resources
5	3.420	2.551	3.9.1	
6	3.324	2.077		Validate content against levels within
U	01014	21077	0.2.0	domains for lesson plans
7	3.080	2.896	3.9.3	Identify and select appropriate teacher activities
3	3.833	1.996	3.4	Develop (or identify) student learning acti- vities appropriate to each behavioral objec- tive (make the content operational).
1	4.775	0.939	3.4.6	Plan experiences which will contribute to teaching students how to use processes, e.g.; perceiving, communicating, learning, decision-making, organizing, co-responding,
2	4.131	1.810	3.4.5	creating, valuing, problem solving Plan experiences which some students may use as a base for developing avocational activities
3	3.886	1.764	3.4.7	
4	3.784	1.603	3.4.2	Plan experiences which will contribute to the students' understanding of industry as a major element in our culture



	Median (mdn)	IQR	Code	Tasks
5	3.777	2.191	3.4.4	Plan experiences for some students which will prepare them for entry into indus- trially related occupations or to develop
6	3.351	1.932	3.4.3	industry which will provide some students a base for occupational choice and all students a respect for the pursuits of
7	2.818	1.775	3.4.1	others Consult resources to identify learning activities
4	3.547	2.472	3.1	Write performance objectives for each course.
1	4.414	1.288	3.1.2	Identify student behavior or product of student behavior
2	3.989	1.706	3.1.4	Identify performance standard for perfor- mance objectives
3	3.900	2.178	3.1.3	Identify conditions under which student
4	2.301	1.583	3.1.5	behavior modification will take place Write the performance objective at the
5	2.222	2.403	3.1.1	appropriate level and domain Identify student population who will receive instruction
5	3.489	1.026	3.6	Identify and prepare instructional resources.
1 2	4.907 3.565	0.592 1.617	3.6.5 3.6.4	Prepare instructional materials Review and select written resources for instruction
3	3.127		3.6.1	Review and select personnel resources
4 5	3.076 2.865	1.685	3.6.3 3.6.2	Review and select audio-visual resources Review and select industrial resources
6	3.306	1.912	3.2	Organize objectives into appropriate sequences
1	3.600	1.716	3.2.2	
2	2.676	1.830	3.2.1	appropriate units of instruction Identify which objectives are dependent on other objectives for their attainment
7	2.998	1.992	3.3	Validate content against domains and against levels within domains.
1	3.613	1.750	3.3.3	Make adjustments to content within domains to obtain needed balance



	Median (mdn)	IQR	Code	Tasks
2	3.608	1.492	3.3.6	Make any needed adjustments to content by levels within each domain
3	3.232	2.399	3.3.5	Observe whether the desired levels within domains are represented and what their
4	2.787	1.895	3.3.4	balance is Decide which levels within each domain should be represented and the balance of content that should be devoted to each
5	2.418	1.488	3.3.1	Decide whether each domain should be rep- resented and the balance of content which
6	2.237	1.645	3.3.2	should be devoted to each Observe that the desired domains are rep- resented and what their balance is
8	2.908	2.155	3.7	Develop a strategy for evaluating instruction
1	4.319	1.303	3.7.4	Plan for written and manipulative performance tests
2	3.629	1.512	3.7.2	Formulate a grading policy and plans for making it known to students
3	2.769	2.446	3.7.1	Decide whether evaluation will employ norm-
4	2.758	2.287	3.7.3	based or mastery grading procedures Plan for self-evaluation techniques to be
5	2.477	1.737	3.7.5	used by students Plan for student evaluation of course
9	2.162	1.136	3.8	Organize and complete the course of study.
1	2.860	1.712	3.8.3	Prepare a time-range plan suggesting a range
2 3	2.080 2.042	0.685 0.982		Write course description Arrange for the preparation of total course
4	2.000	0.791	3.8.1	of study copy and subsequent distribution Write introduction to course of study

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Rank Order -	Median (mdn)	IQR	Code	Tasks
5	3.352	2.662	9.0	EVALUATE INSTRUCTION
1	4.178	1.250	9.1	Assess whether students have assimilated the material presented.
1	4.258	1.208	9.1.1	Use the evaluation policy which was pre-
2	4.190	1.166	9.1.2	viously made known to students Determine whether students met performance standards
3	4.070	1.573	9.1.3	
2	3.563	1.909	9.4	Determine efficiency and effectiveness of instruction.
1	4.353	1.176	9.4.5	Appraise student performance in relation to instructional goals
2	3.907	1.860	9.4.6	Determine whether students are generally happy with the instruction received
3	3.683	1.710	9.4.1	Analyze and interpret results of instruc- tional measurement
4	3.463	1.616	9.4.2	Consult with colleagues regarding assess- ment of your teaching
5 6	2.764	1.900 2.368		Analyze student evaluation of instruction Compare pretest and posttest results
3	3.372	3.337	9.2	Construct and evaluate measuring instru- ments and procedures.
1	3.938	1.684	9.2.2	
2	3.712	1.717	9.2.7	<pre>(knowledge-type) behavior Evaluate tests in terms of useability, objectivity, difficulty, and discrimination</pre>
3	3.066	2.935	9.2.4	Formulate devices to measure psychomotor (manipulative skill type) behavior
4 .5	2.970 2.814	2.449 2.571	9.2.5 9.2.6	Develop pretests and posttests Analyze test instrument validity and
.5 6	2.514	1.897	9.2.1	reliability Devise self-evaluation techniques for use
				by students
7 8	2.344 1.010	2.595 0.510	9.2.3 9.2.8	Formulate devices to measure affective behavior (e.g.; attitudes and values) Use computer to assist in analyzing test



Rank Order	Median (mdn)	IQR	Code	Tasks
4	3.041	2.948	9.3	Administer evaluative experiences.
1	4.065	1.099	9.3.3	Administer written and manipulative per- formance tests
2	3.222	3.660	9.3.4	
3 4 5	3.054 1.492 1.247	2.167 2.275 1.151	9.3.2 9.3.1 9.3.5	

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Rank Order	Median (mdn)	IQR	Code	Tasks
6	3.077	2.288	1.0	IMPROVE INDIVIDUAL'S COMPETENCIES
1	3.890	2.022	1.1	Provide for re-generation and development of competencies.
1	4.397	1.443	1.1.3	Independently accept and solve technical and other problems related to teaching
2 3 4 5	4.030 3.766 3.691 3.250	1.870 2.334 1.864 2.338	1.1.5 1.1.2 1.1.1 1.1.4	assignments Improve skills of interaction with others Improve your technical skills Regenerate teaching skills and strategies Accept professional assignments
2	2.679	1.951	1.3	Use self-evaluation techniques.
1	3.385	2.022	1.3.4	Periodically self-reflect and evaluate education and life philosophies
2 3	3.186 2.510	1.819 1.532	1.3.2 1.3.3	Participate in self-evaluation techniques Consult supervisory and administrative evaluations for self-improvement
4	1.940	0.959	1.3.1	Select a teaching position for which you feel qualified
3	2.586	2.115	1.2	Keep up with development in the field.
1	4.695	1.033	1.2.2	Read current professional literature for self-improvement
2	2.866	1.941	1.2.5	Visit industries and consult with pro- fessional and technical personnel
3 4	2.750 2.309	1.435 1.364	$1.2.1 \\ 1.2.3$	Attend in-service seminars and workshops
5	2.230	1.875	1.2.6	Subscribe to educational and technical journals
6	2.091	0.658	1.2.4	Maintain membership in professional and technical organizations



	Median (mdn)	IQR	Code	Tasks
7	2.720	2.084	10.0	EVALUATE PROGRAMS
1	3.296	1.850	10.4	Determine effectiveness of program implementation.
1	3.987	1.837	10.4.2	Evaluate quality of instruction and teacher-
2	3.779	1.741	10.4.5	student interrelationship within the program Assess appropriateness of learning acti-
3	3.650	1.696	10.4.4	vities to the program Assess adequacy of instructional materials for carrying out learning activities at
4	2.864	1.958	10.4.1	the program level Assess validity of original sources of
5	2.839	1.408	10.4.3	curriculum content at the program level Determine appropriateness of course objec- tives in fulfilling student needs at the
6	2.811	1.575	10.4.6	program-level Review sequences of courses comprising the program
2	3.119	2.077	10.3	Determine output characteristics of students.
1	4.161	1.207	10.3.1	Assess the degree of student achievement of program objectives
2	3.816	1.366	10.3.5	Determine whether students enjoy the curric- ulum and are generally happy with it
3	2.819	2.069	10.3.4	Compare present students achievement with previous student achievements in the program
4	2.353	1.363	10.3.3	Determine the degree to which the industrial education program satisfies societal, industrial and individual needs
5	1.990	1.493	10.3.2	Review program-level follow-up studies to ascertain the usefulness of material learned
3	2.714	1.799	10.2	Assess factors influencing program.
1	3.211	1.564	10.2.3	Review adequacy and utilization of facili-
2	3.109	1.789	10.2.1	ties for program Determine interests, abilities and exper-
3	2.659	1.661	10.2.5	iences of students entering the program Determine the degree of articulation with general, college preparatory and vocational programs
4	2.277	1.666	10.2.4	programs Determine utilization made of community resources in program-level development



Rank Order	Median (mdn)	IQR	Code	Tasks
5	2.153	1.727	10.2.2	Review teacher competencies with respect to program-level goals
4	1.923	1.924	10.1	Collect information at the program-level.
1	3.160	2.338	10.1.3	Select (or design) and administer cognitive
2	2.267	1.514	10.1.7	(knowledge) tests for evaluation of program Interact with and evaluate professional
3	2.031	1.772	10.1.4	program-level curriculum viewpoints Select (or design) and administer tests of attitudes for evaluation of the program
4	1.800	1.905	10.1.2	Design and administer forms for evaluation of program by students
5	1.445	1.374	10 1 1	Conduct program-level follow-up study
5 6	1.585	1.444		Consult advisory committees to determine quality of instructional program
7	1.394	1.885	10.1.5	Select (or design) and administer tests of psychomotor abilities for evaluation of program

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	Median (mdn)	IQR	Code	Tasks
8	2.448	2.033	2.0	DESIGN PROGRAMS
1	2.823	2.244	2.2	Study the institution of industry within our society as a source of the body of knowledge for industrial education.
1	4.713	1.051	2.2.1	Read magazines and journals that focus on industry as part of the study of the
2	3.730	1.682	2.2.6	institution of industry Identify past, present and probable future impacts of industry on society
3	3.133	2.230	2.2.5	Develop and maintain an up to date indus-
4	3.093	2.084	2.2.2	trial resource file Decide upon basic functions of industry to be studied in the program
5	2.616	1.791	2.2.4	Consult available industrial personnel as part of the study of the institution of industry
6	2.555	2.007	2.2.7	
7	2.303	1.404	2.2.3	Visit and observe representative industries as a source of the body of content for
8	2.295	1.455	2.2.9	for industrial education in relation to
9	1.420	1.335	2.2.8	industry Select published taxonomy or develop a taxonomy of industry
2	2.816	2.089	2.4	Analyze the study of society, industry and the individual to identify the problems and human needs toward which industrial educa- tion can make contributions.
1	3.573	1.921	2.4.1	Identify societal, industrial and individual problems toward which industrial education
2	3.088	1.693	2.4.3	use or propose solutions to problems and
3	2.918	1.960	2.4.4	toward which an industrial education program
4	2.725	1.630	2.4.6	can contribute Structure the content from which to draw for program-level curriculum development



	Median (mdn)	IQR	Code	Tasks
5	2.468	2.367	2.4.2	Identify human needs including those of
6	2.031	1.854	2.4.5	differing cultures Detail each job to be done in industrial education in terms of tasks to be per- formed for program-level curriculum development
3	2.641	1.967	2.1	Study society in general and its problems in particular to maintain and improve the rele- vance of industrial education goals to society.
1	3.425	1.644	2.1.5	Relate current problems to industrial
2	3.178	2.263	2.1.6	education programs Identify contributions that industrial edu- cation can make toward the solution of
3	2.982	2.286	2.1.3	societal problems Make judgments about cause and effect in relating societal problems to industrial education programs
4	2.875	1.941	2.1.8	Try promising approaches and alternatives to meeting the needs of society through industrial education programs
5	2.852	2.475	2.1.1	Read and interpret current and historical literature for program-level input
6	2.565	1.665	2.1.2	Listen to and interact with presentations about current status and the future as input to program-level curriculum development
7	2.396	1.440	2.1.10	Suggest program-level improvements in indus- trial education based on societal needs
8	2.297	1.785	2.1.7	Consider alternative solutions to societal problems at the program planning level
9	2.238	1.442	2.1.9	Establish tentative program-level goals for industrial education in relation to societal needs
10	2.020	1.577	2.1.4	Project trends and make predictions based on societies' problems and needs for pro- gram-level curriculum development
4	2.349	1.834	2.8	Develop implementation strategies for new programs and changes in existing program.
1	4.564	1.270	2.8.2	Read current literature on educational change and change strategy
2	2.849	1.370	2.8.8	Develop alternate change strategies for program implementation

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	Median (mdn)	IQR	Code	Tasks
3	2.840	1.620	2.8.3	Re-examine the rationale and fully develop the reasons (advantages) for making pro- posed changes
4	2.750	1.729	2.8.4	Consider the cultural values and past experiences of those persons who are supposed to make the change so that it is
5	2.358	1.702	2.8.11	compatible to these values and experiences Evaluate the effect of planned change on other curriculum areas and on the total curriculum
6	2.290	1.703	2.8.9	
7	2.250	1.861	2.8.5	Identify "opinion leaders" and enlist their support of proposed changes at the program- level
8	2.054	1.400	2.8.1	Establish curriculum implementation prac- tices and sequence to move progressively from the existing system, through phases, into the planned system
9 10	2.000 1.659	0.698 1.268	2.8.10 2.8.6	Prepare budget for proposed program changes
• 11	1.373	1.470	2.8.7	Plan an educational program for the consumer of a proposed change so that they may see the value of the change
5	2.309	1.726	2.5	Develop new and existing programs in terms of expected task outcomes.
1	3.409	1.881	2.5.5	Select tasks for which education and train- ing are to be provided in the industrial education program(s)
2 3	2.442 2.285	1.476 1.691	2.5.3 2.5.6	education program(s) Develop program-level objectives Correlate the industrial education program as a sub-system of the total educational
4	2.191	1.685	2.5.4	program Establish criteria for selection of tasks
5 6	1.918 1.897	1.119 1.780	2.5.1 2.5.2	for education and training programs Develop program-level rationale(s) Develop program-level mission statement(s)

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Rank Order	Median (mdn)	IQR	Code	Tasks
6	2.289	1.517	2.6	<u>Collect tasks into appropriate instrumental</u> groups for teaching (e.g.; courses, units, etc)
1	2.447	1.624	2.6.1	Identify student populations to be served as a basis for determining program experiences
2	2.446	1.406	2.6.4	Develop objectives for course(s) consis- tent with program-level objectives
3	2.365	1.606	2.6.2	Develop rationale for course(s) consistent with program-level rationale
4	1.865	1.240	2.6.3	Develop mission statement for course(s)
7	2.226	2.736	2.7	Develop a plan for continual revision and improvement of programs.
1	4.500	1.340	2.7.3	Keep up with new literature related to general and industrial education for pro-
2	2.727	1.518	2.7.1	gram improvement Plan for student evaluation of courses and programs
3	1.470	2.086	2.7.2	Consult with industrial and educational advisory board
4 5	1.452 1.234	3.039 0.876		Maintain a program-level instruction log book Prepare follow-up studies of graduates of the program
8	1.571	1.462	2.3	Study group cultures and principles of learning in order to relate instruction to the individuals for whom the program and instruction is being planned.
1	2.100	1.835	2.3.3	Identify appropriate learning principles for target populations at the program level
2	1.478	1.350	2.3.2	Examine the characteristics of group cul- tures to improve understanding of attitudes, needs, and interests of those making up the
3	1.29 8	1.216	2.3.1	culture for program-level input Identify various group cultures that may compose target populations for program



Rank Order	Median (mdn)	IQR	Code	Tasks
9	2.121	2.741	7.0	PROVIDE PROFESSIONAL SERVICE
1	3.512	2.329	7.1	Advise and counsel students.
1 2	4.654 4.611	1.120 1.426	7.1.3 7.1.6	Recognize potential problems of students Assist students in developing good study habits
3	4.102	1.929	7.1.8	Assist students with personal and occupa- tional problems
4 5	3.937 3.866	1.451 1.634	7.1.4 7.1.7	Hold individual student conferences
6	3.855	1.417	7.1.1	Provide students with occupational infor- mation
7 8	3.043 2.978	2.834 1.616	7.1.2 7.1.5	Administer subject matter diagnostic tests Confer with parents concerning student educational development
9	2.585	2.150	7.1.11	Involve resource persons and agencies in assisting students
10	2.117	1 619	710	Write letters of recommendation
11	1.430	1.641	7.1.10	Assist students in securing and filling out job applications
2	3.191	1,832	7.4	Offer professional advice.
1 2	3.444 3.300	1.464 1.939	7.4.2 7.4.1	Suggest program and instruction improvements Make laboratory and facility planning suggestions
3	2.712	1.955	7.4.3	Relate to administrators and school board to keep them informed of trends and new developments
3	2.784	3.361	7.3	Assist in general school duties.
1 2	4.677 2.739			Participate in non-instructional school duties Assist new teachers in system to understand policies, regulations and social functions
3 4	1.413 1.294			of school Serve as class advisor Sponsor student club activities
4	1.637	1.603	7.2	Participate in service activities of the educational and civic community.
1	2.724	1.962	7.2.2	Actively join in local, state, and national education activities



	Median (mdn)	IQR	Code	Tasks
2	2.090	2.462	7.2.1	Serve on and chair school and community committees
3 4	1.329 1.132	1.022 0.632	7.2.4 7.2.3	Participate in school accreditation visits
5	1.340	2.213	7.7	Supervise student teachers.
1	3.666	3.018	7.7.6	
2	1.730	2.370	7.7.9	methods for observation Make formal evaluations of student- teacher's performance
3	1.629	1.874	7.7.1	Provide student-teacher with orientation to the school, classroom and community
4	1.465	3.136	7.7.8	Offer criticism, encouragement and suggestions in joint evaluation with student-teacher
5	1.273	2.022	7.7.4	
6	1.229	2.079	7.7.5	
7	1.171	0.721	7.7.3	
8	1.126	0.626	7.7.2	
9	1.111	0.611	7.7.7	
6	1.280	1.176	7.6	Contribute to literature of the field through technical and/or professional writing.
1	2.244	1.644	7.6.1	Write proposals appropriate to needs of the discipline
2	1.141	0.641	7.6.3	Develop written instructional materials for publication
3	1.068	0.568	7.6.2	Write reviews of new tests, instructional aids, and media for education journals
7	1.167	0.667	7.5	Develop programs of professional service.
1 2	1.272 1.165	1.780 0.665	7.5.2 7.5.1	
3	1.135	0.635	7.5.4	Serve as advisor to educational suppliers in development of new resources and instructional materials
4	1.117	0.617	7.5.3	

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	Median (mdn)	IQR	Code	Tasks
10	1.756	1.783	8.0	UTILIZE RESEARCH
1	2.851	2.414	8.1	Identify needs (problems) amenable to research.
1	4.228	1.744	8.1.2	Identify causes and unfulfilled needs which
2	3.208	1.872	8.1.4	contribute to classroom problems Review available research applicable to
3	2.462	1.766	8.1.1	
4	1.460	1.838	8.1.3	ving educational problems through research Estimate and evaluate factors such as time, cost and value as a basis for selection of a research problem
2	2.336	1.597	8.7	Apply decision-making process to the solu- tion of instructional problems.
1	2.619	1.480	8.7.3	
2	2.555	1.543	8.7.1	evidence Analyze potential courses of action applic- able to needs (problems) as suggested by research results
3	2.312	1.915	8.7.2	Make decisions on courses of action to be taken based on research evidence
4	1.949	1.346	8.7.4	Evaluate action taken based on research findings
3	2.205	1.974	8.5	Cooperate in research effort of others.
1	3.047	1.355	8.5.2	Assess and respond to educational research instruments
2	2.382	1.681	8.5.1	Assist in implementation and evaluation of
3	1.191	0.783	8.5.3	innovative programs Organize and set-up pilot programs in co- operation with other researchers
4	1.848	1.903	8.6	Read and interpret research findings both as a consumer and as a researcher.
1	2.728	1.887	8.6.7	ness of research findings to his Own
2 3	2.232		8.6.5 8.6.1	



	Median (mdn)	IQR	Code	Tasks
4	1.862	1.264	8.6.2	Inspect research reports for adequate des- criptions of the major elements of the research study
5	1.407	1.462	8.6.3	
6	1.397	1.652	8.6.4	
7	1.317	1.188	8.6.6	
5	1.802	1.704	8.3	Conduct proposed research.
1	2.212	1.713	8.3.3	Draw conclusions and project implications based on analysis of research data
2	1.630	1.402	8.3.2	Analyze and interpret data collected for research studies
3	1.445	1.746	8.3.1	
6	1.328	1.235	8.2	Prepare proposals for researching a problem.
1	2.312	2.091	8.2.6	Select or develop an instrument appropriate to a researchable problem
2	1.931	1.411	8.2.3	Formulate objectives or hypotheses to be answered through research study
3	1.592	1.466	8.2.1	Develop a concise statement of the research problem
4	1.390	1.216	8.2.4	Select and describe the research design to be used in a proposed research study
5	1.244	1.085	8.2.7	Develop a management strategy for the con- trol of the research study
6	1.222	0.855	8.2.9	Submit research proposal to appropriate funding bodies
7	1.175	0.708	8.2.8	Prepare a budget estimate in fiscal terms for a research study
8	1.151	0.651	8.2.5	
9	1.084	0.584	8.2.2	Write a rationale for a research study including a review of literature
7	1.184	0.736	8.4	Write research reports.
1	1.218	0.890	8.4.2	Formally review and revise preliminary
2 3	1.168 1.168	0.676 0.676	8.4.3 8.4.1	draft of research report Complete final draft of research report Complete preparation of preliminary draft of research report, e.g.; introduction, methods body, conclusions, implications, biblio- graphy, appendices



A P P E N D I X B

IMPORTANCE OF TASKS



Tasks of Wisconsin Secondary School Industrial Education Teachers Ranked by Median (Mdn) Value of their Response to "Task Importance" and Including Interquartile Range (IQR)

	Median (mdn)	IQR	Code	Tasks
1	4.373	1.372	5.0	FACILITATE LEARNING
1	4.517	1.297	5.3	Interact with students in a positive manner
1 2	4.888 4.831	0.611 0.616		Express interest in students Express enthusiasm for your students and the subject matter
3	4.762	0.893	5.3.7	Provide students with clear understandings of what is expected of them and what they can expect from their teacher
4	4.664	1.163	5.3.10	Demonstrate an attitude of fairness and commitment on issues important to students
5	4.500	1.362	5.3.11	Use knowledge of students as a basis for positive interaction during instruction
6	4.456	1.125	5.3.2	
7	4.381	1.146	5.3.1	Use processes of perceiving, communicating, knowing, co-responding patterning, deci- sion-making, creating, valuing, problem solving, and learning in interacting with
8	4.180	1.229	5.3.4	students Make provision for student input into instruction
9	4.169	1.265	5.3.6	Use student interests in planning student activity
10	4.153	1.523	5.3.5	Plan individualized instruction <u>with</u> students
11	3.228	1.766	5.3.9	Recognize and interact with subcultures unique to the student population
2	4.363	1.386	5.2	Motivate students.
1	4.855	0 .6 44	5.2.2	Win the students' attention and maintain level of arousal
2 3	4.637 4.586	1.089 1.174	5.2.8 5.2.3	Provide students immediate feedback to test
4 5	4.535 4.097	1.165 1.462	5.2.6 5.2.5	Reward student achievement

Rank	Median			
	(mdn)	IQR	Code	Tasks
6	3.866	1.712	5.2.1	Determine the entering dispositions of individual students
7	3.826	1.598	5.2.7	Recognize and react to behavior which
8	3.807	1.730	5.2.4	merits no reward Recognize and encourage evidences of response to external motivation
3	4.363	1.338	5.5	Teach the substantive content of the field.
1	4.714	1.085	5.5.5	Provide experiences which contribute to the teaching of students to use processes, e.g.; perceiving, communicating, learning, decision-making, organizing, co-responding, creating, valuing, problem-solving
2	4.434	1.292	5.5.2	Provide exploratory experience related to industry which will provide some students a basis for selecting an occupation and will provide all students respect for the pursuits of others
3	4.245	1.291	5.5.1	Provide experiences which will contribute to the student's understanding of industry as a major element in our culture
4	4.163	1.311	5.5.4	Provide experiences which some students may use as a base for developing <u>a</u> vocational activities
	4.138	1.539	5.5.3	Provide experiences for some students to prepare them for entry into appropriate industrially related occupations or to develop a base for advanced occupational education
4	4.359	1.409	5.1	Execute instructional plans and strategies.
1	4.913	0.586	5.1.5	Be aware of whether students are working safely and take appropriate preventative and corrective measures
2 3	4.866	0.633	5.1.4	
3	4.686	1.069		Identify individual needs of students
4	4.385	1.142	5.1.3	Make students aware of instructional intent and proposed outcomes of instruction
5	3.793	1.470	5.1.6	Use educational resources in executing instructional plans
6	3.683	1.207	5.1.2	Find out what students expect from the instruction
7	3.404	1.206	5.1.7	Conduct field trips and other outside- class activities



	Median (mdn)	IQR	Code	Tasks
5	4.201	1.460	5.4	Adjust plans and strategies based on observed feedback from students.
1 2	4.472 4.413	1.408 1.731		Be sensitive to non-verbal feedback Be sensitive to solicited and unsolicited student feedback
3 4	4.330 4.250	1.267 1.261	5.4.6 5.4.2	Capitalize on spontaneous student interests
5	4.181	1.341	5.4.3	
6	4.101	1.336	5.4.7	
7	4.037	1.647	5.4.5	Recognize and respond to external factors which influence planned instruction
8	3.922	1.657	5.4.4	Revise time allocations for instructional plans and strategies based on student feedback

Rank Order	Median (man)	IQR	Code	Tasks
2	4.320	1.569	6.0	MANAGE LEARNING ENVIRONMENT
1	4.578	1.294	6.3	Provide for maintenance.
1	4.678	1.010	6.3.4	Test and adjust tools and equipment prior to returning them to use after maintenance
2	4.647	1.316	6.3.2	Diagnose maintenance problems in tools and equipment
3	4.554	1.220	6.3.1	Develop and carry out a routine preventa- tive maintenance schedule
4	4.234	1.761	6.3.3	
2	4.539	1.312	6.5	Respond to social-emotional climate.
1	4.900	0.599	6.5.2	Demonstrate firmness, fairness and consis- tency in dealing with discipline problems
2	4.747	1.028	6.5.7	Establish rapport and empathy with students
2 3	4.641		6.5.5	Be responsive to human needs of student
4	4.506	1.342		Develop alternate strategies for allevia- ting conditions which cause discipline problems
5	4.295	1.401	6.5.4	
6	4.109	1.322	6.5.1	Identify internal and external causes of discipline problems
7	3.916	1.592	6.5.6	Use self-evaluation techniques regarding your inter-relationship with students
3	4.395	1.797	6.4	Maintain records and filing systems.
1	4.780	1.009	6.4.5	Keep records of student grades for each
2	4.668	1.127	6.4.2	class taught Keep student progress records for each class
3	4.645	1.340	6.4.4	Keep a record of purchase orders and inventories
4	4.520	1.827	6.4.1	Keep attendance records for each class taught
5	4.338	1.668	6.4.7	
6 7	4.048 2.580	1.733 2.384		
4	4.299	1.869	6.2	Requisition and receive supplies and materials.
1	4.578	1.198	6.2.3	Order new educational materials and supplies



	Median (mdn)	IQR	Code	Tasks
2 3 4	4.447 4.385 3.481	1.257 1.573 1.788	6.2.4	Prepare budgets for formal approval Receive and check in supplies and materials Take inventory of supplies and materials
5	4.127	1.583	6.6	Establish physical conditions conducive to learning.
1	4.646	1.108	6.6.3	Establish classroom procedures which avoid confusion and provide freedom of move- ment to students
2	4.577	1.295	6.6.1	Maintain control of comfortable tempera- ture, lighting, and noise levels in classrooms and laboratories
3	3.285	1.263	6.6.2	Take actions to enhance the room interior with displays, bulletin boards, etc.
6	3.853	1.894	6.1	<u>Plan for and organize the facilities</u> needed for the program.
1	4.602	1.226	6.1.8	Prepare, submit, and defend budget requests
2	4.250	1.428	6.1.7	for equipment and tools Make an immediate and long range plan for
3	4.230	1.307	6.1.4	acquisition of equipment and tools Consult catalogs of industrial and educa- tional supplies for specification of equipment available
4	4.205	1.682	6.1.1	Identify and develop an industrial educa-
5.5	4.000	1.449	6.1.3	-tion program and the facility to house it Plan layout for effective space utilization
5.5	4.000	1.477	6.1.5	to meet program needs Prepare a list of specific equipment and tools appropriate to program level and needs
7 8	3.338 2.970	2.332 1.551		Write a program statement for your shop or laboratory

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Rank Order	Median (mdn)	IQR	Code	Tasks
3	4.025	1.547	1.0	IMPROVE INDIVIDUAL' COMPETENCIES
1	4.218	1.336	1.1	Provide for re-generation and development of competencies.
1 2	4.553 4.272	1.196 1.227	1.1.2 1.1.3	Improve your technical skills Independently accept and solve technical and other problems related to teaching assignments
3 4 5	4.177 4.056 3.941	1.252 1.356 1.763	1.1.1 1.1.5 1.1.4	Regenerate teaching skills and strategies Improve skills of interaction with others Accept professional assignments
2	3.986	1.656	1.3	Use self-evaluation techniques.
1	4.625	1.328	1.3.1	Select a teaching position for which you
2 3	4.114 3.782	1.501 1.643	1.3.2 1.3.4	
4	3.557	1.421	1.3.3	Consult supervisory and administrative evaluations for self-improvement
3	3.885	1.549	1.2	Keep up with development in the field.
1	4.352	1.235	1.2.2	Read current professional literature for self-improvement
2	4.245	1.278	1.2.3	Pursue further formal technical and pro-
3	3.941	1.479	1.2.5	fessional education for self-improvement Visit industries and consult with pro- fessional and technical personnel
4	3.630	1.612	1.2.6	
5 6	3.540 3.488	1.409 1.527	1.2.1 1.2.4	Attend in-service seminars and workshops



4	6

Rank Order	Median (mdn)	IQR	Code	Tasks
4	3.990	1.702	4.0	NURTURE HUMANENESS
1	4.390	1.365	4.1	Nurture humaneness with students.
1	4.721	1.044	4.1.2	Admits that teachers also make mistakes and learn from them
2	4.674	1.053	4.1.5	Take time to listen to students and acknow- ledge their ideas and commitments as being
3	4.666	1.089	4.1.9	worthy of expression Encourage students to know that they are
4	4.618	1.049	4.1.4	respected as individuals Encourage, recognize and acknowledge original ideas of studentseven though imperfect and unfinished
5	4.577	1.128	4.1.3	Maintain atmosphere where adventure in learning is encouraged without fear of consequences of failure
6 7	4.564 4.437	1.282 1.374		Provide personal guidance to students Extend the positive student-teacher rela- tionship to include informal contacts
8	4.068	1.547	4.1.1	Encourage students to think of alternatives and to recognize knowledge as imperfect, incomplete, and tentative
9	4.054	1.591	4.1.8	Develop group and team learning situations to foster in students a mutual concern for one another
10	3.919	1.391	4.1.6	Help students interpret their relationship
11	3.000	2.585	4.1.7	to their environment De-emphasize inter-student competition in the classroom as a basis for student achievement
2	4.077	1.502	4.4	Nurture humaneness to one's self.
1	4.119	1.541	4.4.1	Employ teacher traits in balance between those required for individual self-fulfill- ment and those required for successful
2	4.038	1.457	4.4.2	teaching Reassess personal objectives and take action to continue growth towards self-actualizing
3	3.811	1.765	4.2	Nurture humaneness with the school staff.
1	4.697	1.236	4.2.5	Employ tact and judgment in interacting
2	4.593	1.248	4.2.1	with other school staff members Accept assistance from and give assistance to fellow staff members



Rank Order	Median (mdn)	IQR	Code	Tasks
3	3.900	1.463	4.2.6	Offer recommendations in matters of school policy
4	3.294	1.543	4.2.4	Serve on and cooperate with school staff committees
5	3.237	1.323	4.2.2	Obtain and lend assistance to school pro- jects being developed by other staff members
6	3.141	1.368	4.2.3	Participate in school staff social events
4	3.431	1.551	4.3	Nurture humaneness with parents and community.
1	3.805	1.282	4.3.4	Make provisions for personal contacts with parents concerning the progress of their children
2	3.63 8	1.960	4.3.5	
3	3.481	1.476	4.3.6	
4	3.351	1.402	4.3.2	
5	3.266	1.527		Work with community service personnel, e.g.; Librarians, social workers, clergy, training schools
6 7	3.260 3.221	1.655 1.535	4.3.3 4.3.1	Participate in parent-teacher functions

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Rank Order	Median (mdn)	IQR	Code	Tasks
5	3.864	1.617	3.0	DESIGN INSTRUCTION
1	4.261	1.288	3.5	Select teaching activities and strategies.
1	4.264	1.326	3.5.1	Plan strategies for teaching including meeting the needs of special groups
2	4.263	1.236	3.5.3	Make decisions concerning the extent to which the instruction is to be individualized
3	4.254	1.305	3.5.2	Integrate learning and teaching activities into instructional plans
2	4.116	1.534	3.4	Develop (or identify) student learning acti- vities appropriate to each behavioral objec- tive (make the content operational).
1	4.755	0.949	3.4.6	Plan experiences which will contribute to teaching students how to use processes, e.g.; perceiving, communicating, learning, decision-making, organizing, co-responding, creating, valuing, problem solving
2	4. <u>1</u> 90	1.260	3.4.5	
3	4.148	1.537	3.4.4	
• • 4 • • • • •	4.141	1.264	3.4.2	Plan experiences which will contribute to the students' understanding of industry as a major element in our culture
.5	4.056	1.397	3.4.3	Plan exploratory experiences related to industry which will provide some students a base for occupational choice and all stu- dents a respect for the pursuits of others
6	4.000	1.563	3.4.7	
7	3.196	1.362	3.4.1	
3	3.992	1.607	3.9	Prepare lesson plans for group and indi- vidualized instruction.
1	4.701	1.066	3.9.2	Identify and select learning activities for students
2	4.297	1.362	3.9.7	Sequence presentation of instructional materials
3	4.074	1.096	3.9.4	Identify and select appropriate learning resources
4	4.030	1.531	3.9.6	Keep records of lessons planned and sugges- tions for improvement





	Median (mdn)	IQR	Code	Tasks
5	3.697	1.640	3.9.3	Identify and select appropriate teacher activities
6 7	3.631 3.294	1.806 1.472	3.9.1 3.9.5	Write objectives for lesson plans Validate content against levels within domains for lesson plans
4	3.950	1.545	3.6	Identify and prepare instructional resources.
1 2 3	4.841 3.992 3.852	0.658 1.079 1.514	3.6.5 3.6.3 3.6.4	Prepare instructional materials Review and select audio-visual resources Review and select written resources for instruction
4 . 5	3.560 3.365	1.386 1.367	3.6.2 3.6.1	Review and select industrial resources Review and select personnel resources
5	3.865	1.575	3.1	Write performance objectives for each course.
1	4.127	1.541	3.1.3	Identify conditions under which student behavior modification will take place
2	4.107	1.122	3.1.2	Identify student behavior or product of student behavior
3	3.940	1.570	3.1.4	Identify performance standard for perfor- mance objectives
4	3.545	1.822	3.1.1	Identify student population who will receive instruction
5	3.422	1.507	3.1.5	Write the performance objective at the appropriate level and domain
6	3.767	1.651	3.7	Develop a strategy for evaluating instruc- tion.
1	4.435	1.220	3.7.2	Formulate a grading policy and plans for making it known to students
2	4.000	1.485	3.7.4	
3	3.448	1.659		Plan for self-evaluation techniques to be used by students
4 5	3.408 3.102	1.473 1.899	3.7.5 3.7.1	Plan for student evaluation of course Decide whether evaluation will employ norm- based or mastery grading procedures
7	3.712	1.629	3.2	Organize objectives into appropriate sequences.
1	4.041	1.536	3.2.2	Group and sequence performance objectives into appropriate units of instruction
2	3.318	1.582	3.2.1	Identify which objectives are dependent on other objectives for their attainment

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	Median (mdn)	IQR	Code	Tasks
8	3.578	1.538	3.3	Validate content against domains and against levels within domains.
1	4.120	1.156	3.3.6	Make any needed adjustments to content by levels within each domain
2	3.836	1.508	3.3.3	Make adjustments to content within domains to obtain needed balance
* ³	3.665	1.437	3.3.4	Decide which levels within each domain should be represented and the balance of content that should be devoted to each
4	3.564	1.659	3.3.5	
5	3.383	1.423	3.3.1	Decide whether each domain should be represented and the balance of content which should be devoted to each
6	2.830	1.373	3.3.2	Observe that the desired domains are rep- resented and what their balance is
9	3.338	1.617	3.8	Organize and complete the course of study.
1	3.539	1.378	3.8.3	Prepare a time-range plan suggesting a range of time allotted to each unit of instruction
2 3	3.532 3.255	1.473 1.556	3.8.2 3.8.4	Write course description
4	2.964	1.629	3.8.1	Write introduction to course of study





Rank Order	Median (mdn)	IQR	Code	Tasks
6	3.700	1.503	10.0	EVALUATE PROGRAMS
1	4.022	1.315	10.4	Determine effectiveness of program imple- mentation.
1	4.153	1.157	10.4.5	Assess appropriateness of learning acti- vities to the program
2	4.147	1.284	10.4.2	Evaluate quality of instruction and teacher-student interrelationship within the program
3	4.076	1.428	10.4.6	Review sequences of courses comprising the program
4	4.046	1.198	10.4.4	Assess adequacy of instructional materials for carrying out learning activities at the program level
5	3.937	1.216	10.4.3	Determine appropriateness of course objec- tives in fulfilling student needs at the program-level
6	3.764	1.446	10.4.1	Assess validity of original sources of curriculum content at the program level
2	3.830	1.393	10.3	Determine output characteristics of students.
1	4.330	1.228	10.3.1	Assess the degree of student achievement of program objectives
2	3.942	1.086	10.3.5	Determine whether students enjoy the Curricu- lum and are generally happy with it
3	3.772	1.373	10.3.3	Determine the degree to which the indus- trial education program satisfies societal, industrial and individual needs
4	3.500	1.428	10.3.2	Review program-level follow-up studies to ascertain the usefulness of material learned
5	3.474	1.501	10.3.4	Compare present students achievement with previous student achievements in the program
3	3.693	1.426	10.2	Assess factors influencing program.
1	4.121	1.144	10.2.1	Determine interests, abilities and exper- iences of students entering the program
2	4.007	1.095	10.2.3	Review adequacy and utilization of facili- ties for program
3	3.500	1.517	10.2.2	Review teacher competencies with respect to program-level goals
4	3.300	1.412	10.2.4	Determine utilization made of community resources in program-level development
5	3.208	1.270	10.2.5	Determine the degree of articulation with general, college preparatory and voca- tional programs



Rank Order	Median (mdn)	IQR	Code	Tasks
4	3.199	1.511	10.1	Collect information at the program-level.
1	3.638	1.751	10.1.3	Select (or design) and administer cognitive (knowledge) tests for evaluation of program
2	3.330	1.356	10.1.7	Interact with and evaluate professional program-level curriculum viewpoints
3	3.202	1.781	10.1.6	Consult advisory committees to determine
4	3.100	2.053	10.1.5	quality of instructional program Select (or design) and administer tests of psychomotor abilities for evaluation of program
5	3.096	1.442	10.1.4	Select (or design) and administer tests of
6 7	3.066 3.011	1.351 1.644	10.1.1 10.1.2	<u>attitudes</u> for evaluation of the program Conduct program-level follow-up study Design and administer forms for evaluation of programs by students





Rank Order	Median (mdn)	IQR	Code	Tasks
7	3.602	1.659	9.0	EVALUATE INSTRUCTION
1	4.113	1.255	9.1	Assess whether students have assimilated the material presented.
1	4.244	1.384	9.1.1	Use the evaluation policy which was pre- viously made known to students
2	4.068	1.282	9.1.3	Apply methods to be used to evaluate instruction
3	4.058	1.080	9.1.2	Determine whether students met perfor- mance standards
2	3.758	1.265	9.4	Determine efficiency and effectiveness of instruction.
1	4.306	1.154	9.4.5	Appraise student performance in relation
2	3.970	1.447	9.4.6	to instructional goals Determine whether students are generally
3	3.905	1.453	9.4.1	happy with the instruction received Analyze and interpret results of instruc- tional measurement
4	3.758	1.333	9.4.2	Consult with colleagues regarding assess-
5 6	3.301 3.158	1.272 1.370	9.4.3 9.4.4	ment of your teaching Analyze student evaluation of instruction Compare pretest and posttest results
3	3.351	1.825	9.2	Construct and evaluate measuring instru- ments and procedures.
1	3.863	1.611	9.2.7	
2	3.854	1.303	9.2.2	objectivity, difficulty, and discrimination Formulate devices to measure cognitive
3	3.563	1.626	9.2.4	(knowledge-type) behavior Formulate devices to measure psychomotor
4	3.463		9.2.5	(manipulative skill type) behavior Develop pretests and posttests
5	3.340		9.2.1	Devise self-evaluation techniques for use by students
6	3.337	1.694		behavior (e.g.; attitudes and values)
7	3.293	1.508	9.2.6	Analyze test instrument validity and reliability
8	1.264	1.064	9.2.8	Use computer to assist in analyzing test results
4	3.277	1.880	9.3	Administer evaluative experiences.
1	3.965	1.394	9.3.3	Administer written and manipulative performance tests



Rank Order	Median (mdn)	IQR	Code	Tasks
2	3.329	1.512	9.3.2	Conduct student self-evaluation procedures
3	3.276			Maintain a daily instruction evaluation log book
4	2.821	2.141	9.3.1	Administer pretests and posttests
5	2.571	1.997	9.3.5	Administer standardized tests

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Rank Order	Median (mdn)	IQR	Code	Tasks
8	3.458	1.606	2.0	DESIGN PROGRAMS
1	3.668	1.595	2.2	<u>Study the institution of industry within</u> our society as a source of the body of knowledge for industrial education.
1	4.192	1.260	2.2.1	Read magazines and journals that focus on industry as part of the study of the institution of industry
2	3.976	1.663	2.2.2	Decide upon basic functions of industry to be studied in the program
3	3.804	1.589	2.2.6	Identify past, present and probable future
4	3.790	1.652	2.2.7	
5	3.723	1.39 8	2.2.3	program-level curriculum development Visit and observe representative industries as a source of the body of content for industrial education
6	3.629	1.414	2.2.4	Consult available industrial personnel as part of the study of the institution of industry
7	3.605	1.608	2.2.5	Develop and maintain an up to date indus-
8	3.500	1.451	2.2.9	trial resource file Establish tentative program-level goals for industrial education in relation to industry
9	2.640	1.729	2.2.8	Select published taxonomy or develop a taxonomy of industry
2	3.594	1.502	2.6	Collect tasks into appropriate instruc- tional groups for teaching (e.g., courses, units, etc.)
1	4.100	1.250	2.6.4	Develop objectives for course(s) consis- tent with program-level objectives
2	3.574	1.450	2.6.1	Identify student populations to be served as a basis for determining program experiences
3	3.551	1.355	2.6.2	Develop rationale for course(s) consistent with program-level rationale
4	3.000	1.783	2.6.3	Develop mission statement for course(s)
3	3.533	1.513	2.4	Analyze the study of society, industry and the individual to identify the problems and human needs toward which industrial educa- tion can make contributions.
1	3.809	1.448	2.4.1	Identify societal, industrial and individual problems toward which industrial education can contribute

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Rank Order	Median (mdn)	IQR	Code	Tasks
2	3.792	1.284	2.4.4	Identify the jobs that need to be done toward which an industrial education program can contribute
3	3.583	1.429	2.4.3	Examine previously proposed solutions and use or propose solutions to problems and ways to meet human needs through the program
4	3.445	1.452	2.4.6	Structure the content from which to draw for program-level curriculum development
5	3.256	1.832	2.4.2	Identify human needs including those of differing cultures
6	3.088	1.726	2.4.5	
4	3.458	1.593	2.5	Develop new and existing programs in terms of expected task outcomes.
1	4.025	1.271	2.5.3	Develop program-level objectives
2	3.864	1.388	2.5.5	Select tasks for which education and training are to be provided in the indus- trial education program(s)
3	3.576	1.641	2.5.6	Correlate the industrial education pro- gram as a sub-system of the total educa- tional program
4	3.333	1.546	2.5.4	Establish criteria for selection of tasks for education and training programs
5	2.947	1.235		Develop program-level rationale(s)
6	2.661	2.064	2.5.2	Develop program-level mission statement(s)
5	3.443	1.609	2.8	Develop implementation strategies for new programs and changes in existing program.
1 2	4.279 4.157	1.410 1.712	2.8.10 2.8.2	Prepare budget for proposed program changes Read current literature on educational
3	3.818	1.581	2.8.3	change and change strategy Re-examine the rationale and fully develop the reasons (advantages) for making pro-
4	3.588	1.399	2.8.8	posed changes Develop alternate change strategies for program implementation
5	3.445	1.372	2.8.11	Evaluate the effect of planned change on other curriculum areas and on the total
6	3.337	1.439	2.8.1	curriculum Establish curriculum implementation prac- tices and sequence to move progressively from the existing system, through phases, into the planned system



Rank Order	Median (mdn)	IQR	Code	Tasks
7	3.333	1.409	2.8.9	Establish timetable for program change
8	3.216	2.014	2.8.6	<pre>implementation Pian an educational program for those who will implement the change so that the pro- gram and its ramifications are clearly understood</pre>
9	3.106	1.637	2.8.5	Identify "opinion leaders" and enlist their support of proposed changes at the program level
10	3.068	1.407	2.8.4	Consider the cultural values and past exper- iences of those persons who are supposed to make the change so that it is compatible to these values and experiences
11	2.761	1.842	2.8.7	Plan an educational program for the con- sumers of a proposed change so that they may see the value of the change
6	3.410	1.559	2.1	Study society in general and its problems in particular to maintain and improve the relevance of industrial education goals to society.
1	3.744	1.524	2.1.10	Suggest program-level improvements in indus- trial education based on societal needs
2	3.729	1.425	2.1.5	Relate current problems to industrial edu- cation programs
3	3.583	1.651	2.1.6	Identify contributions that industrial edu- cation can make toward the solution of societal problems
4	3.560	1.460	2.1.8	Try promising approaches and alternatives to meeting the needs of society through industrial education programs
5	3.467	1.493	2.1.2	Listen to and interact with presentations about current status and the future as
6	3.307	1.430	2.1.4	on societies' problems and needs for pro-
7	3.250	1.869	2.1.1	gram-level curriculum development Read and interpret current and historical
8.	3.240	1.400	2.1.9	literature for program-level input Establish tentative program-level goals for industrial education in relation to societal needs
9	3.184	1.844	2.1.3	Make judgments about cause and effect in relating societal problems to industrial
10	2.978	1.524	2.1.7	education programs Consider alternative solutions to societal problems at the program planning level



Rank Order	Median (mdn)	IQR	Code	Tasks
7	3.340	1.846	2.7	Develop a plan for continual revision and improvement of programs.
1	4.425	1.353	2.7.3	Keep up with new literature related to general and industrial education for pro- gram improvement
2	3.521	1.417	2.7.1	Plan for student evaluation of courses
3	2.941	1.658	2.7.2	
4	2.885	1.695	2.7.5	advisory board Prepare follow up studies of graduates
5	2.857	2.284	2.7.4	of the program Maintain a program-level instruction evaluation log book
8	2.887	1.849	2.3	<u>Study group cultures and principles of</u> <u>learning in order to relate instruction</u> to the individuals for whom the program and instruction is being planned.
1	3.463	1.545	2.3.3	Identify appropriate learning principles for target populations at the program
2	2.850	1.636	2.3.2	tures to improve understanding of attitudes, needs, and interests of those making up
3	2.297	1.747	2.3.1	the culture for program-level input Identify various group cultures that may compose target populations for programs



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	Median (mdn)	IQR	Code	Tasks
9	3.449	2.117	7.0	PROVIDE PROFESSIONAL SERVICE
1	4.145	1.336	7.4	Offer professional advice.
1 2	4.375 4.190	1.241 1.297	7.4.2 7.4.1	Suggest program and instruction improvements Make laboratory and facility planning
3	3.822	1.662	7.4.3	suggestions Relate to administrators and school board to keep them informed of trends and new developments
2	3.840	1.643	7.1	Advise and counsel students.
1 2	4.500 4.333	1.202 1.311	7.1.3 7.1.1	Recognize potential problems of students Provide students with occupational infor- mation
3	4.326	1.250	7.1.6	Assist students in developing good study habits
4	4.211	1.300	7.1.7	Work with guidance counselors in assisting students
5	4.035	1.433	7.1.8	Assist students with personal and occupa- tional problems
6 7	3.991 3.443	1.259 1.428		Hold individual student conferences Confer with parents concerning student educational development
8	3.420	1.579	7.1.11	Involve resource persons and agencies in assisting students
9 10 11	3.311 3.141 2.973	1.538 1.682 2.099	7.1.2	Write letters of recommendation Administer subject matter diagnostic tests Assist students in securing and filling out job applications
3	3.772	2.050	7.7	Supervise student teachers.
1	4.141	1.461	7.7.6	Demonstrate effective techniques and methods for observation
2	4.074	3.383	7.7.7	
3	3.981	2.162	7.7.5	Hold conferences with student teacher re- garding his performance, progress and problems
4	3.808	2.339	7.7.8	Offer criticism, encouragement and sugges- tions in joint evaluation with student- teacher
5	3.729	1.752	7.7.4	Create situations so that the student teacher can initiate the instruction activities
6	3.697	1.702	7.7.1	Provide student-teacher with orientation to the school, classroom and community



	Median (mdn)	IQR	Code	Tasks
7	3.600	3.123	7.7.2	Prepare the class for the arrival of
8	3.564	2.664	7.7.3	
9	3.343	1.764	7.7.9	student teacher Make formal evaluations of student- teacher's performance
4	2.953	2.059	7.3	Assist in general school duties.
1	3.909	1.856	7.3.1	Assist new teachers in system to under- stand policies, regulations and social functions of school
2	3.081	1.720	7.3.2	
3 4	2.614 2.148	1.653 1.989	7.3.4 7.3.3	Sponsor student club activities Serve as class advisor
5	2.937	1.683	7.2	Participate in service activities of the educational and civic community.
1	3.360	1.734	7.2.2	
2	3.221	1.278	7.2.1	
3 4	2.692 2.426	1.907 1.606		committees Participate in school accreditation visits Initiate and organize special community service committees as needed
6	2.694	1.845	7.5	Develop programs of professional service.
1	2.817	1.507	7.5.1	
2	2.750	2.041	7.5.3	
3 4	2.700 2.444	2.309 1.701	7.5.2 7.5.4	
7	2.514	1.959	7.6	Contribute to literature of the field through technical and/or professional writing.
1	3.553	1.431	7.6.1	Write proposals appropriate to needs
2	2.029	1.748	7.6.3	
3	1.978	1.655	7.6.2	for publication Write reviews of new tests, instructional aids, and media for education journals



	Median (mdn)	IQR	Code	Tasks
10	2.740	1.726	8.0	UTILIZE RESEARCH
1	3.293	1.760	8.1	Identify needs (problems) amenable to research.
1	4.190	1.323	8.1.2	Identify causes and unfulfilled needs which
2	3.406	1.510	8.1.4	contribute to classroom problems Review available research applicable to
3	2.975	1.381	8.1.1	identified problem Develop an awareness of the need for sol-
4	2.608	1.876	8.1.3	ving educational problems through research Estimate and evaluate factors such as time, cost and value as a basis for selection of a research problem
2	3.111	1.477	8.7	Apply decision-making process to the solu- tion of instructional problems.
1	3.433	1.665	8.7.2	Make decisions on courses of action to be
2	3.263	1.346	8.7.1	taken based on research evidence Analyze potential courses of action applic- able to needs (problems) as suggested by research results
3	3.125	1.370	8.7.3	
4	2.833	1.465	8.7.4	
3	3.054	1.563	8.5	Cooperate in research effort of others.
1	3.550	1.390	8.5.1	Assist in implementation and evaluation of
2	3.022	1.215	8.5.2	innovative programs Assess and respond to educational research
3	2.470	1.710	8.5.3	instruments Organize and set-up pilot programs in co- operation with other researchers
4	2.710	1.483	8.3	Conduct proposed research.
1	2.931	1.346	8.3.3	Draw conclusions and project implications
2	2.630	1.682	8.3.1	based on analysis of research data Collect research data by appropriate methods, e.g.; historical, descriptive,
3	2.520	1.380	8.3.2	experimental Analyze and interpret data collected for research studies



Rank Order	Median (mdn)	IQR	Code	Tasks
5	2.706	1.600	8.6	Read and interpret research findings both as a consumer and as a researcher.
1	3.275	1.365	8.6.7	Determine potential application and useful- ness of research findings to his own
2 3	2.931 2.720	1.235 1.511		
. 4.	2.548	1.965	8.6.4	Assess the validity and reliability of research procedures
5	2.500	1.615	8.6.3	Evaluate the sampling procedures of research reports
6	2.469	1.375	8.6.2	Inspect research reports for adequate descriptions of the major elements of the research study
7	2.308	1.814	8.6.6	Evaluate the conclusions of a research report
6	2.392	1.827	8.2	Prepare proposals for researching a problem.
1	2.971	1.680	8.2.6	
2	2.645	2.400	8.2.8	to a researchable problem Prepare a budget estimate in fiscal terms
3	2.588	1.384	8.2.3	for a research study Formulate objectives or hypotheses to be answered through research study
4	2.565	1.804	8.2.4	Select and describe the research design to
5	2.534	1.807	8.2.1	be used in a proposed research study Develop a concise statement of the research problem
6	2.500	1.792	8.2.9	Submit research proposal to appropriate
7	2.111	1.609	8.2.7	funding bodies Develop a management strategy for the con- trol of the research study
8	1.937	1.747	8.2.5	Select a population for a particular
9	1.654	1.405	8.2.2	research study Write a rationale for a research study including a review of literature
7	1.910	1.793	8.4	Write research reports.
1	2.185	1.760	8.4.1	Complete preparation of preliminary draft of research report, e.g.; introduction, methods, body, conclusions, implications, bibliography, appendices
2 3	1.779 1.700	1.691 1.812	8.4.3 8.4.2	Complete final draft of research report Formally review and revise preliminary draft of research report

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