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NPRDC Special Report 81-9

February 1981

JOB-ORIENTED BASIC SKILLS (JOBS) PROGRAM: ADMINISTRATOR'S GUIDE

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Released by James F. Kelly, Jr. Commanding Officer

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FOREWORD

The Job-Oriented Basic Skills (JOBS) program has been operating at the Service School Command (SSC), San Diego since July 1979. In fiscal year 81, the JOBS program will be expanded to SSCs at Memphis, Meridian, and Great Lakes.

This JOBS administrator's guide was developed in support of Advanced Development Subproject Z1176-PN.03 (Improved Performance through Instruction in "A" School-Related Basic Skills), and was sponsored by the Chief of Naval Operations (Manpower, Personnel and Training) (OP-01). It addresses the administrative aspects of the instructional program and offers other background information, and is intended for use by military personnel designated to support the program.

The section of this guide entitled "JOBS Curricula" was condensed from <u>An</u> <u>Orientation Manual for the JOBS Program Instructor</u>, which was prepared by Northrup Services, Inc. under contract to the Navy Personnel Research and Development Center.

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JAMES J. REGAN Technical Director

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INTRODUCTION

The Job-Oriented Basic Skills (JOBS) program, a Class "A" school preparatory course sponsored by the U.S. Navy, is offered to Navy recruits who desire technical training but whose aptitude scores are too low to qualify them for Class "A" schools. JOBS students do not compete with each other; their goal is to master the curriculum.

Staff personnel in the JOBS program include contract instructors and military personnel under the Chief of Naval Technical Training (CNTT). The military personnel are responsible for the administration of JOBS and this guide has been prepared for their use. Since communication between staff personnel and students regarding JOBS problems, needs, and accomplishments is important, every effort should be made to facilitate this interaction.

Table 1 provides a listing of the current and proposed JOBS courses and their followon Class "A" schools. The appendix provides information concerning the tasks students graduating from the "A" schools will be required to perform in the fleet.

JOBS PERSONNEL

Students

The JOBS applicant knows that he is not qualified for an "A" school because of his low Armed Services Vocational Aptitude Battery (ASVAB) scores. The most common cause of this shortcoming is a poor academic background. JOBS offers the applicant a chance to obtain the prerequisite skills for the "A" school of his choice.

Nearly all JOBS students have low self-esteem concerning academic work. They have memories of past academic failures. As a result, they may overcompensate for real or imagined deficiencies by being aggressive, overtalkative, or reluctant to relate to other students. The perceptive instructor can help considerably in overcoming these problems.

The JOBS student will either be a recent graduate of a Recruit Training Center (RTC) or will have served 6 to 9 months in the fleet. The former tend to be more highschool oriented, more adolescent in outlook, and more likely to relate their JOBS course material to civilian rather than military experiences. The latter are more wordly in outlook, behavior, and language, and seem to have more difficulty adjusting to the classroom. However, their shipboard experience helps them to view the course material in a more practical light.

Instructors

Instructors are of two types: Day instructors and night instructors. The day instructors are responsible for conducting a program orientation that sets the rules of the classroom, explains the JOBS course, familiarizes the students with the materials and syllabus, and establishes an atmosphere of trust and respect.

They are also responsible for:

1. Presenting material as outlined in the Instructor Guide.

2. Performing the necessary clerical work for the school district (attendance, roll book, grade forms, etc.).

Table 1

JOBS Courses and Corresponding Class "A" Schools

| JOBS Course | Class "A" Schools |
|-----------------------------|--|
| Current: | |
| Propulsion Engineering | Boiler Technician (BT) ^a |
| | Engineman (EN) ^a |
| | Machinists Mate (MM) ^a Gas Turbine Systems Technician (GS) |
| Operations | Operations Specialist (OS) ^a Electronics Warfare Technician (EW) Ocean Systems Technician (OT) Aviation Antisubmarine Warfare Operator (AW) Sonar Technician (4-year duty) (ST) |
| Administrative/Clerical | Personnelman (PN) ^a |
| | Storek ee per (SK) ^a |
| | Yeoman (YN) ^a Aviation Maintenance Administrationman (AZ) |
| | Aviation Storekeeper (AK) ^a Disbursing Clerk (DK) |
| Electricity and Electronics | Aviation Electronics Technician (AT) ^a |
| | Aviation Fire Control Technician (AQ) ^a |
| | Aviation Antisubmarine Warfare Technician (AX) ^a Sonar Technician (6-year duty) (ST) Fire Control Technician (FT) Electronics Technician (ET) Gunner's Mate (GM) |
| Tentative or Proposed: | |
| Aviation Mechanics | Aviation Machinist's Mate (AD) |
| Electricity | Aviation Electrician's Mate (AE) Electrician's Mate (EM) Construction Electrician (CE) Interior Communications Electrician (IC) |
| Ordnance | Aviation Ordnanceman (AO) Mineman (MN) Gunner's Mate (GM) Torpedoman's Mate (TM) |
| Navigation | Quartermaster (QM) ^{a, b} |
| Airframe Mechanics | Aviation Structural Mechanic (AM) |

^a"A" schools enrolling JOBS students as of the date of this report. The other schools listed under each course may or may not become involved with the JOBS program, depending on program developments.

^bJOBS students entering QM school are currently being taught under the JOBS Operations Course. Tentative plans are to include such students under the Navigation Course.

3. Administering tests.

4. Consulting with the appropriate chief or instructional supervisor about academic or classroom problems.

5. Arranging for the supply of instructional materials.

The night instructors' responsibilities center around the need for individualized help. They operate on a more impromptu basis and adapt to each student's particular needs. They assign remediation exercises and remediation tests. Other duties include:

1. Performing required clerical duties (attendance, grade form, etc.).

2. Commenting on all work accomplished during night study for each student.

3. Advising the day instructor on additional help that might be needed or on any special problems.

4. Following the day instructor's recommendations on specific assistance needed,

5. Arranging for the supply of instructional materials.

It is important for JOBS instructors to evaluate their own progress in teaching the program. One way of doing this is to monitor the improvement scores; that is, the difference between the pre- and postevaluation test scores. Also, instructors can ask students for feedback on their effectiveness, the classroom atmosphere, etc., using an end-of-course anonymous questionnaire. This questionnaire is not required in JOBS but it has been an effective means of self-evaluation.

In the classroom, disciplinary procedures must be consistent, particularly with regard to Navy standards. Formal address should be used at all times between teachers and students (i.e., no first names) and relationships should be kept at a professional level.

Individual student problems of an emotional, medical, or administrative nature should be referred to military support personnel (see below). The JOBS instructor should not get involved in the student's personal affairs outside the classroom.

Military Support Personnel

Military support personnel--usually chief petty officers--are responsible for administering the contents of this guide and will be available to assist with certain problems from the first day of each class. The military person should address the students about the unique opportunity they have to become trained in a technical field through the JOBS program, and tell them that he or she is available to discuss their personal problems with them. Military personnel also assist with problems in course content, academic areas, and discipline.

1. <u>Course Content--</u>The military person may be used as consultant on course content and can explain to the class the relevance of the JOBS course to the follow-on "A" school curriculum and to subsequent shipboard duties.

2. <u>Academic Problems</u>--Persistent or severe academic problems (constant failure on progress tests, extreme difficulty in elementary arithmetic or reading) will be referred to the appropriate military official by the instructor. Academic remediation will be available to students experiencing such problems. These students will be referred to a Military Academic Review Board, which will determine if the student can profit from continuing with JOBS or would fare better in some other program.

3. <u>Disciplinary Problems</u>--The military support staff handles all disciplinary procedures. The teacher's responsibility is to remove problem students from the classroom and send them to the appropriate military person.

JOBS CURRICULA

Development

The Instructional Systems Development (ISD) procedure, an approach to designing, producing, evaluating, and managing instructional programs, was followed in developing the curricula for the JOBS courses, which were to relate directly to the "A" school curricula. The major ISD procedures used to develop the JOBS curricula are summarized below:

1. The major knowledges and skills to be taught in JOBS courses were identified by analyzing "A" school instructional materials to derive the basic major skill requirements, and interviewing instructors and "A" school students to uncover curriculum problems faced by students.

2. The major skills were analyzed to identify their underlying subordinate skills and knowledges (i.e., the skills and knowledges needed to perform the major skills).

3. Learning objectives were prepared for each of the skills and knowledges selected. Essentially, these objectives specified what a student should know at the end of the training program. A learning objective consists of a behavior statement, a description of learning conditions, and a minimum performance standard.

4. Tests were constructed to assess student performance. Tests include pre- and postcourse evaluation tests and progress tests.

Mastery Learning

The JOBS student is required to demonstrate through course examinations that he understands the material before he can enter his respective "A" school. In most of the progress tests and the postcourse evaluation tests, he must answer at least 80 percent of the items correctly.

Instructors should use the concept of mastery learning in their instruction. One way to make sure a student can perform to criterion is to have him perform a task or skill more than once. For example, if the student squares a set of numbers without error, it should not be assumed that he has attained mastery. Rather, the student should be required to repeat the task with a different set of numbers. If he evidences lack of confidence or makes errors, he should be assigned other sets of numbers to square before returning for reevalaution. For some skills, it is important that the student repeat the performance several days later to show that he has not only learned the skill, but has retained it over a period of time. All students differ in their abilities to master and retain skills. It is the job of the instructor to provide adequate assistance, skill practice, and performance testing for each student during mastery learning. Students must demonstrate mastery in a skill or set of skills before they are permitted to advance to the next section of subject matter. Insisting on this mastery tends to prevent students from advancing prematurely; that is, from studying new subject matter before they have acquired the necessary underlying knowledge and skill.

There is a recommended time allotment for each lesson of the curricula. However, the time needed by students to master a lesson may vary, depending on the class.

Curriculum Changes

The only curriculum materials to be used are those provided. No other materials or information should be used. If an instructor desires to change content, tests, or instructional aids, prior approval must be obtained from CNTT (Code 017). Instructors should submit their suggestions for changes to their supervisor who will submit them to CNTT. Errors found in the curriculum should also be reported to CNTT.

OTHER INSTRUCTIONAL MATERIALS

Types of Material

In addition to the JOBS curriculum, instructional materials include the tests, the Instructor Guide (IG), the Student Guide (SG), instructional or job aids, and recordkeeping forms. These materials are described below.

1. <u>Tests</u>. Tests include pre- and postcourse evaluation tests, module progress tests, and night study tests. Some of the courses also use supplementary tests for advanced students.

a. <u>Enerourse Evaluation Test</u>. This test is given on the first day of attendance and is used to evaluate each student's level of knowledge of the curriculum prior to any instruction. The resultant score is useful because it provides a baseline and diagnostic cues of weakness areas. Low scores in certain parts of the test may indicate learning problems. A supplementary manual is provided for the administration and scoring of the evaluation test. Students should not mark on the evaluation test since it will be used again. Instructors will examine the tests after each use to ensure they remain clear and complete. The answer sheets will be collected by the NAVPERSRANDCEN representative. (This requirement continues only through June 1981.)

b. <u>Progress Test</u>. These tests are given during the JOBS course, one for each section, and usually several per module. They measure short-term retention of the material, and provide a basis for the student to check his progress. Students not meeting criteria are sent to night study (see below). The criterion standards for each progress test are indicated on the grade sheet in the appropriate column. For example, "4/5" means that the student must have four of five items correct to satisfy the requirements for that lesson. If he only gets three of the five correct, for a score of 3/5, he would be sent to night study for extra help. The progress tests and supplementary tests will be kept in a box and arranged sequentially. It is important that this sequence be maintained. Answer keys for all progress and remediation tests are included in the IG.

c. <u>Night Study Tests</u>. These are remediation tests that are given when the night study instructor feels that the student has acquired sufficient knowledge and skill to meet criterion. Prior to taking the remediation test, the student is given a remediation exercise. This will help determine if the student is ready for the test or needs more individualized instruction. These tests are a "second chance" progress test. Night study tests and exercises are also sequentially arranged by lesson.

d. <u>Postcourse Evaluation</u>. This is the final evaluation step of the JOBS program and is given in the last class session. It tests long-term retention of all material taught in the program. Students are required to score at least 80 percent for matriculation to "A" school. Mention of this fact at the beginning of the program may provide extra incentive and motivation. The answer sheets must be saved, as previously mentioned for the pretest.

2. <u>Guides.</u> The IG and the SG are bound volumes and are organized according to specification. Basically, the IG contains the course objectives, instructional examples, and progress tests. The SG roughly follows the outline of the IG, and contains the material needed to study for each section's progress test. These booklets are the official texts for JOBS and are nonconsumable. Each JOBS course has a number of modules and there is one SG per module. Since the JOBS student does not keep his SG upon graduation from the program, it is important that he be supplied with paper and pencils for taking notes and that he does not mark or otherwise mutilate the guide. It is suggested that, on the last day of class, each student check his guide for missing pages and marked answers to practice questions. Students should use pencils rather than pens so that marks in the guide can be easily erased.

IGs often contain examples in addition to or different from the SG examples. Therefore, the instructor should explain that he will provide additional or different examples during instruction.

3. <u>Instructional Aids</u>. Job aids for the instructor include overhead transparencies and other materials (e.g., maps, test tubes, Bunsen burners, rulers, pens, and tape measures). There are over 375 transparencies being used in the four JOBS courses currently in existance (see Table 1). These transparencies are in envelopes, labelled by lesson.

4. <u>Recordkeeping Forms</u>. Certain forms are provided for recordkeeping and for communication among instructors. These forms include:

a. <u>The Grade Form (Figure 1)</u>. All test scores are entered on this form. Fractional numbers at the top of each column represent the required criterion score over the total possible correct score. There are also spaces for the night study instructor * record remediation test scores.

b. <u>Night Study Record (Figure 2)</u>. This record provides a means of communication between the day and night instructors. The day instructor indicates what each student assigned to night study needs to achieve his specific module objective and to meet criterion on the remediation test. In turn, the night instructor records what material was covered with each student, what tests were passed or failed, and recommends further help that might be useful.

It is essential that the day instructor preview lessons at least 1 day prior to instruction of that lesson. He may find that materials are missing, are in error, or require revision. In the first two cases, the instructor should obtain what is needed or make the necessary corrections. Immediate access to duplication services is essential. If the instructor feels that a revision is needed, the more formal procedures previously discussed are required. Given the structured nature of the JOBS course, adherence to this preview procedure will ensure that the instructor will be prepared and not have to search for materials. Since the night instructor may not have access to duplication services during the evening hours, he should establish a procedure for maintaining a full complement of exercises and tests. In those JOBS courses where more than one instructor has access to the same materials, the instructors should establish a procedure to ensure sufficient supplies to meet student requirements. A 6-month supply of materials is suggested.

Figure 1. Sample grade form.



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Date

JOBS NIGHT STUDY RECORD

STRAND

Assigning Instructor

Night Study Instructor

| Night Study Results/Work Accomplishments | | | | |
|--|--|--|--|--|
| Day Instructor Comments | | | | |
| Mod/Section | | | | |
| Student Name | | | | |

Figure 2. Night study record.

Organization of Materials

Attention to organization is important to ensure quick access for instructional requirements. Additional copies of instructional materials may not be available at the JOBS course site and, if lost, will need to be ordered from CNTT. Instructors scheduled for the evening should understand that they are responsible for replacing or arranging for the resupply of all missing materials.

Storage of Materials

Provisions must be made for the proper storage and security of all materials. Tests must be secured to avoid compromise. Used examinations will be stored until the grades are transferred to the grade sheet. A specific person should be designated who will be responsible for storing and receiving materials.

JOBS SCHEDULE

Figure 3 provides the JOBS schedule that is used at the San Diego site. This schedule does not apply to the first and last days of each JOBS course. The first day includes an orientation session conducted by the instructor and military staff and administration of the preevaluation test. Formal instruction begins on the second day of scheduled class time. The last day of the course is reserved for the postevaluation test.

- 0700 Company Commander inspects students at barracks prior to departure for school (not required on Friday due to formal inspection at Bldg. 242)
- 0730 Students muster in classroom (make muster report to respective rate training leader)
- 0745-1045 Three hours of morning instruction
- 1045-1200 Lunch

- 1200-1500 Three hours of afternoon instruction
- 1510-1600 Time available for General Military Training
- 1800-2000 Two hours of night study for designated and voluntary students

Figure 3. Student schedule--Monday through Friday.

APPENDIX

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CLASS "A" SCHOOLS IN THE JOBS PROGRAM

Class "A" Schools in the JOBS Program

| | Sch | Training Time | | Job |
|------------------------|-----------------|------------------|---|---|
| Rating | Location | (Weeks) | Task | Environment |
| | | Propulsion Engin | sering | |
| Boller Technician (BT) | Great Lakes, IL | 11 | 1. Align fuel, water, a air piping systems; operate valves, pum and steam turbines; light-off, operate, a secure main propuls and auxiliary boller | hull of a ship in fire- nps, rooms (boiler rooms) of shops located below th and water line. Although slon improvements are |
| | | | Operate and mainta automatic boiler co trol systems. Clean, adjust, test, and perform other preventive mainte- preventive mainte- biller. | in ing conditions, BTs n-work in hot, noisy areas. BTs are re- quired to perform some heavy physical work. As an engineer, a BT must be able to |
| | | | nance on boilers an auxiliary machinery | others, often with limited supervision. |
| | • | | Perform chemical a quality assurance tests on water and oil. | nd supervision. |
| | | | Repair valves, pump air compressors, control devices, and boilers. | |
| _ | | | Make entries in and analyze machinery operating records and reports. | |
| Engineman (EN) | Great Lakes, iL | 6 | Align fuel, water, a alr piping systems and control operatio of diesel engines used for ship pro- pulsion, to propel small craft, and to generate electrical power. | rooms or shops that, |
| | | ·. · | Clean, lubricate, adjust, test, and perform other pre- ventive maintenanco on diesel engines, reduction gears, air compressors, hydrau lic or pnsumatic clutches, steering engines, and con- trollable-pitch propeller systems. | with others, they may be required to work alone e with limited supervision. |
| | | | 3. Operate and mainta desalinization plants used to make fresh water from se water. | |
| | | | Operate and service refrigeration plants and air conditioning systems. | |
| | | | Repair or replace valves, pumps, com- pressors, heat ex- changers, and con- trol devices used with diesel engines | |

Note. This material was condensed from the Navy Career Guide, 1979-1980, Navy Recruiting Command.

| | Scho | | | Job | de | | | | |
|---|-----------------|--------------------------|--------|--|--|--|--|--|--|
| Rating | Location | Training Time (Weeks) | | Task | Environment | | | | |
| | Pr | opulaion Engineerin | g (Cor | ntinued) | | | | | |
| Engineman (EN) (Continued) | | | 6. | Make entries in and analyze machinery operating records and reports. | | | | | |
| Machinist's Mate (MM) | Great Lakes, IL | 9 | i. | Align oil, water, and steam piping systems and control the operation of steam turbines used for ship propulsion. | MMs work within the hull of a ship in enginerooms or shops that are sometimes hot and noisy. Their work | | | | |
| | | | 2. | Control operation of turbogenerators used to produce electrical power. | is mostly physical. | | | | |
| | · | | 3. | Clean, adjust, test, and parform other preventive mainte- nance on a ship's main engines, turbo- generators, and other auxiliary machinery, including steering engines and elevators. | | | | | |
| | | | ۹. | Operate and main- tain desalinization plants (evaporators) to make fresh water from sea water. | | | | | |
| | | | 5. | Maintain refrigera- tion plants and air conditioning systems. | | | | | |
| | | | 6. | Repair or replace valves, pumps, heat exchangers, compres- sors, steam turbines, and hydraulic or pneumatic control devices. | | | | | |
| | | | 7. | Make entries in and analyze machinery operating records and reports. | | | | | |
| Gas Turbine Systems Fechrician (GS) Basic Electricity and Electronics School | Great Lakes, IL | 23-35 | 1. | Maintain and repair gas turbine equipment. | GSs usually work in the engine- rooms aboard | | | | |
| BE/E) Required) | | | 2. | Work with blueprints, schematics, and charts. | many types of modern ships. At shore, they may | | | | |
| | | | 3. | Perform administra- tive procedures re- lated to gas turbine propulsion system operation and maintenance. | work at major repair facilities. | | | | |
| | | | ۹. | Perform work-area inspections. | | | | | |
| | | | 5. | Test lubricating oil and distillate fuels for contamination, neutralization, and precipitation. | | | | | |

Note. This material was condensed from the Navy Career Guide, 1979-1980, Navy Recruiting Command.

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| | Sch | | | Job | |
|---|---------------|--------------------------|--------|---|--|
| Rating | Location | Training Time (Veeks) | | Task | Environment |
| | P | ropulsion Engineerin | g (Con | tinued) | |
| Gas Turbine Systems Tech- nician (GS) (Continued) | | | 6. | Operate standard test equipment. | |
| | | | 7. | Light-off and shut down engines and check for proper performance. | |
| | | | 8. | Replace and adjust operating tolerance of contacts, micro- switches, relay switches, pressure switches, and tempera- ture switches. | |
| | | Operation | 6 | | |
| Operations Specialists (OS) | Dam Neck, VA | 12 | l. | Detect and tract ships, aircraft, and missiles. | Work is performed for the most part in a clean, com- fortable office |
| | | | 2. | Determine their distance, bearing, and altitude. | situation. OSs work closely with others, are closely supervised, and do |
| | | | 3. | By use of rader, distinguish between shipe, aircraft, missiles, and natural objects or distur- bances. | mostly mental work. |
| | | | ۹. | Identify ships and aircraft. | |
| | | | 5, | Provide deta for navigation. | |
| | | | 6, | Plot tracks for air and surface targets. | |
| | | | 7. | Work as part of search and rescue team. | |
| | | | 1, | Operate radio- telephones. | |
| Electronics Warfare Fechnician (EW) (BE/E Required) | Penescole, PL | 18 | ١. | Operate electronic detection and de- ception systems. | The duties of per- sonnel in the EW rating are usually |
| | | | 2. | Evaluate intercepted electromagnetic radiations to deter- mine whether they originate from sur- face, airborne, missile, or natural atmospheric sources. | performed in a clean, comfortable electronic control canter environment where they work mostly alone with little supervision on tasks that re- quire more mental |
| | | | 3. | Plot intercepted sig- nais to determine effective defensive maneuvers in case of attack. | than physical effort. |
| | | | 4. | Track surface and airborne targets. | |
| | | | 5. | Maintain electronic warfare equipment. | |

Note. This material was condensed from the Navy Career Guide, 1979-1980, Navy Recruiting Command.

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| | Sch | ool Training Time | | Job | |
|---|-------------|----------------------|-----------|---|--|
| Rating | Location | (Weeks) | | Task | Environment |
| | | Operations(Con | tinued | | |
| ocean Systems (echnician (OT) | Norfolk, VA | 10 | 2. | Operate electronic equipment to inter- pret and document sound data gathered from the oceans. Operate related equip- ment, such as tape recorders. Interpret and report | Work is usually performed in a clean, comfortable office situation. OTs work closely with others, are closely supervised, and do mostly mental work. |
| | | | 4. | all significant data. Prepare and maintain visual displays of analyzed data. | |
| | | | 5. | Convert analyzed data into formats suitable for statis- tical study. | |
| | | | 6. | Some OTs repair, adjust, and calibrate elactronics equipment, including digital data systems. | |
| Aviation Antisubmarine Warlere Operator (AW) | Memphis, TN | 14 | 1, | Operate highly sophis- ticated acoustic signal-processing equipment to detect, localize, and track submerged submarines. | The duties of the AW rating are usually performed indoors, primarily inside aircraft, in a clean, com- fortable office- |
| | | | 2. | Operate airborne rader for aircraft and surface navigation. | like environment. AWs work closely with others and are closely supervised |
| | | | 3. | Perform aircraft-to- target intercepts, utilizing airborne radars and electronic surveillance equip- ment. | in their work, which is mostly mental rather than physical. |
| | | | ۹. | Detect and classify electronic emissions utilizing specialized surveillance equipment. | |
| | | | 5. | Operate nonacoustic detection equipment in order to localize and track submerged submarines. | |

Note. This material was condensed from the Navy Career Guide, 1979-1980, Navy Recruiting Command.

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| | Sch | | | Job | |
|--|---------------|--------------------------|---------|--|---|
| Rating | Location | Training Time (Weeks) | | Task | Environment |
| | | Operations (Con | tinued) | | |
| Viation Antisubmarine Variare Operator (AW) Continued) | | | | helicopter crew member: Operate dipping sonar equipment to detect, | |
| | | | | localize, and track submerged submarines. | |
| | | | 2. | Operate radar and magnetic detection equipment for aircraft navigation and target acquisition. | |
| | | | 3. | Act as helicopter rescue crewmen. | |
| Sonar Technician (ST) | San Diego, CA | 10-14 | ı. | Operate and repair sonar equipment in underwater search and research; con- duct search and attack procedures on surface ships and submarines. | STs usually work indoors in a clean, comfortable shop-like environ- ment. They work closely with others, are closely super- vised, and do mostly mental work. |
| | | | 2. | Operate sonar counter- measures and jamming equipment to nullify effectiveness of ensmy sonar and weapons. | |
| | | | 3. | Prepare sonar and underwater data, reports, and logs. | |
| | | | ۹. | Locate and tract underwater or sur- face objects. | |
| | | | 5. | Operate and repair antisubmarine war- fare fire-control equipment. | |
| | • | | 6. | Operate and repair underwater radio- telephone equipment. | |
| | | Administrative/ | Clerics | ۱ | |
| Personneiman (PN) | Meridian, MS | 6. 7 | ۱. | interview personnel. | Work in the PN rating is usually |
| | | | | Administer tests. | performed in a clean comfortable office environment. |
| | | | | for assignments. | People in this rating may work |
| | | | | Career counseling. Operate visual aids | alone with little supervision or work closely with |
| | | | 20 | such as sound movie projectors ter in- struction and training. | others under close supervision, de- pending on individue assignments. They |
| | | | 6. | Analyze Navy jobs and qualifications required. | do mostly mental work. |
| | | | 7. | Prepare organiza- tional charts. | |
| | | | 8. | Write official letters and reports. | |

Note. This material was condensed from the Nevy Career Guide, 1979-1980, Nevy Recruiting Command.

| | S | chool Training Time | | dot | Job | | |
|------------------|--------------|------------------------|--------|---|---|--|--|
| Rating | Location | (Weeks) | | Task | Environment | | |
| | | Administrative/Clerica | l (Con | tinued) | | | |
| itorekeeper (SK) | Meridian, MS | 6 | 1. | Take charge of store- rooms. | Most SKs work in a clean, comfortable office | | |
| | | | 2. | Issue repair parts, clothing, and other items. | or storeroom enviro ment. They work closely with other people but they | | |
| | | | 3. | Make requisitions and orders to main- tain supplies at the prescribed support level and to satisfy nonstocked departmental require- ments. | often have in- dependent respon- sibilities with little supervision. Whether their tasks are mostly physical or mental depends on their individual assignments. | | |
| | | | ۹. | Take inventories. | and months | | |
| | | | 5. | Organize warehousing. | | | |
| | | | · 6, | Prepare items for shipment, includ- ing invoices and shipping documents. | | | |
| | | | 7. | Update and maintain supply manuals. | | | |
| | | | 8. | Maintain financial records. | | | |
| | | | 9. | Ensure timely receipt of stocks. | | | |
| | | | 10. | Utilize computers as available for the above. | | | |
| | | | п. | Type supply-related documents. | | | |
| (coman (YN) | Meridian, MS | 7 | 1. | Prepare and type correspondence and reports. | YNs are usually assigned duties in clean, comfort- able office environ | | |
| | | | 2. | Organize and maintain files. | ments where they work closely with other people. Thei | | |
| | | | 3. | Receive office visitors and handle telephone communica- tions. | work is mostly men tal and is often performed with little supervision. | | |
| | | | 4. | Perform office duties. | | | |
| | | | 5. | Perform administrative duties in connection with investigations and trials. | | | |
| | | | 6. | Maintain records and official publications. | | | |
| | | | 7. | Utilize duplicating and audio-recording equipment to accomplish the above. | | | |
| | | | ۴. | Requisition office supplies. | | | |

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Note. This material was condensed from the Navy Career Guide, 1979-1980, Navy Recruiting Command.

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| | Sc | hool | | Job |
|--------------------------|--------------|--------------------------|--|--|
| Rating | Location | Training Time (Weeks) | Task | Environment |
| | | Administrative/Clerica | I (Continued) | |
| viat on Maintenance | Meridian, MS | 7 | I. Schedule aircraft | AZs usually |
| dministrationman (AZ) | | · | inspection. | work in a clean, comfortable office |
| | | | 2. Keep charts that | environment. Their |
| | | | show trends in air- | place of work may |
| | | | craft systems reliability. | vary somewhat de- pending on whether they are assigned |
| | | | 3. Organize and opera libraries of tech- | |
| | | | nical reports and | they perform are |
| | | | related maintenanc data. | e mostly mental, and require close cooperation with |
| | | | 4. Issue aircraft work | fellow workers. |
| | | | orders and inspec- tion forms. | |
| 1 | | | 5. Perform a wide ran | ge. |
| | | | of clerical and ad- ministrative duties | |
| | | | related to aircraft | |
| | | | maintenance, such | a5 |
| | | | preparing reports | |
| | · | | and correspondence filling, and typing. | P r |
| | | | 6. Perform a wide ran | 8¢ |
| | | | of other adminis- trative duties relati | -4 |
| | | | to aircraft mainten | |
| viation Storekeeper (AK) | Meridian, MS | 7 | 1. Buy, store, check, a Issue naval aircraft and aeronautical equipment and acco sories, including flight clothing. | AKs work in a clean comfortable office |
| | | | 2. Prepare and type | work closely with other people, their |
| | | | records of procurer stock control, and issuance of equipm | nent, tasks often re- quire independent |
| | | N | 3. Prepare inventory reports. | ing on their assignments, the work may be largely |
| | | | 4. Prepare correspond | |
| | | | Organize and set up files for correspond reports, stock card and other accountin systems. | p mental in others. Jence, 5, |
| | | | 6. Keep official public tions up to date. | CB- |
| | | | 7. Maintain financial records. | |
| | | | Utilize computers, typewriters, and ad calculating, and duplicating machin to accomplish the i | es |

Note. This material was condensed from the Nevy Career Guide, 1979-1980, Navy Recruiting Command.

| | Sc | hool | | Job | | | | | | |
|---|--------------|--------------------------|-----------|---|--|--|--|--|--|--|
| Rating | Location | Training Time (Weeks) | | Task | Environment | | | | | |
| | · | Administrative/Clerica | l (Con | tinued) | | | | | | |
| Disbursing Clerk (DK) | Meridian, MS | 8 | 1. | Compute pay and pre- pare payrolis. | Most DK assignment: are carried out in a clean, comfortable | | | | | |
| | | | 2. | Keep pay records up to date with respect to insurance allot- ments, family allow- ances, promotions, and extra compensa- tions. | office environment. The work is mostly mental, and while DKs work closely with others, they have little super- vision in the per- formance of their | | | | | |
| | | | 3. | Process claims for expenses. | duties. | | | | | |
| | | | ۹. | Disburse funds for supplies and services. | | | | | | |
| | | | 5. | Prepare financial accounts and reports. | | | | | | |
| | | | 6. | Prepare correspondence. | | | | | | |
| | | | 7. | Maintain disbursing office files. | | | | | | |
| | | | 8. | Keep official publica- tions up to date. | | | | | | |
| | • | | 9. | Type documents re- lated to pay trans- actions. | | | | | | |
| | | Electricity and Ele | ctron | ia | | | | | | |
| Aviation Electronics Technician (AT) | Memphis, TN | 20 | ١. | Test, maintain, and repair airborne electronics equipment. | ATs perform duties at sea and ashore all over the world. | | | | | |
| | | | 2. | Check and repair navigational and search equipment. | They may work in- doors, outdoors, or in a shop environ- ment that is general dirty and often | | | | | |
| | | | 3. | Test and adjust operating controls for reception of radar. | noisy. They work closely with others, are closely super- vised, and do mostly physical | | | | | |
| | | | 4. | Analyze detection devices. | work of a technical hature. | | | | | |
| | | | 5. | Measure electrical voltage, current, and resistance quantities. | | | | | | |
| | | | 6. | Trace malfunctions in electrical parts and systems. | | | | | | |
| | | | 7. | Test wiring, lamps, resistors, synchros, and potentionmeters. | | | | | | |
| | | | 8. | Make comprehensive clicuit repairs of component parts, assemblies, and subassemblies. | | | | | | |
| | | | 9. | Keep records and reports on electronic performance and in- ventory of electronics equipment needed for | | | | | | |

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| | School Training Time | | Job | | |
|---|----------------------|----------------------------|-----|---|--|
| Rating | Location | Training Time (Weeks) | | Task | Environment |
| | E | lectricity and Electronics | (Ca | ntinued) | · · · · · · · · · · · · · · · · · · · |
| Aviation Fire Control Fechnician (AQ) | Memphis, TN | 20-26 | 1. | Operate, maintain, and repair fire control (weapons direction) equip- ment used to launch and control missiles and for bomb delivery. | AQs perform their duties in many dif- ferent environ- ments in a shop- type setting or out of doors. The environment may |
| | | | 2. | Make electrical repairs. | also be noisy. They work closely with others, do mostly mental |
| | | | 3. | Operate test equip- ment such as analog- and digital-computerized test benches, multi- meters, vacuum tube voltmeters, and oscilloscopes. | work, merica work, are closely supervised. |
| | | | 4. | Draw and interpret circuit schematics and wiring diagrams. | |
| | | | 5. | Analyze computer and electronic test data. | |
| | | | 6. | Make electronic, electric, and mechanical casualty analyses. | |
| | | | 7. | Test computers, gyros, optical components, and tracking radars. | |
| | | | 8. | Maintain air-launched guided missile equip- ment. | |
| Aviation Antisubmarine Warfare Technician (AX) | Memphis, TN | 20-26 | 1. | Aircrew volunteers perform in-flight maintenance of air- borne electronic systems. | People in the AX rating are usually assigned duties in clean shop situa- tions where the temperature is con |
| | | | 2. | Perform a wide range of electronic shop operations. | fortable. They usually work more or less alone, doing mostly |
| | | | 3. | Remove and install units of ASW equip- ment. | mental work under close supervison. |
| | | | ۹. | Maintain operating efficiency of ASW equipment. | |
| | | | 5. | Debrief flight crews. | |
| | | | 6. | Use and maintain a variety of test equip- ment. | |
| | | | 7. | Read and apply service diagrams, schematics, and manuals. | |
| | | | 1. | Maintain inventory of required equipment, tools, and materials. | |

Note. This material was condensed from the Nevy Career Guide, 1979-1980, Nevy Recruiting Command.

| | School Texts in a Time | | Зов | | | | | | |
|---|-------------------------------------|--------------------------|---|---|--|--|--|--|--|
| Rating | Location | Training Time (Weeks) | Task | Environment | | | | | |
| Electricity and Electronics (Continued) | | | | | | | | | |
| Sonar Control Technician (ST) (see page A-5) | | | | | | | | | |
| Fire Control Technician (FT) (BE/E Required) | Great Lakes, IL | 15-20 | Maintain fire c trol (weapons) radars, weapon direction syste target designat systems, and ei hydraulic fire c trol servomech Make mechanic electrical, and tronic casualty analyses. | rating are usually s performed indoors ms, in a clean, com- ion fortable shop-like ectro- environment. FTs con- usually work anisms. closely with others, are closely cal, supervised, and do elec- mostly physical or | | | | | |
| | | | Align fire conta systems. | | | | | | |
| | | | Make senativit selectivity, and accuracy measure ments for elect equipment. |) #re- | | | | | |
| | | | Work with circu diagrams and bi prints. | | | | | | |
| Electronics Technician (ET) (BE/E Required) | Great Lakes, IL | 21-37 | Repair, adjust, calibrate a broa spectrum of ele tronics equipme in general use i the surface and surface Navy, is ing communicas equipment, radi search systems, navigation system and others. | id the ET rating c- usually perform ent their duties in- n doors, in a clean, sub- shop-like environ- nclud- ment with comfort- tions able temperatures, ar They usually work with little super- | | | | | |
| | | | Analyze perform of electronics equipment; isola and repair or re place defective parts. | mance work in different Assignments. ate | | | | | |
| | | | 3. Maintain and re motor generator associated with electronics equi | rs | | | | | |
| | | | Make sensitivity selectivity, and power measurer for electronics equipment. | | | | | | |
| Gunner's Mate (GM) BE/E Required) | San Diego, CA or Great Lakes, IL | 12-18 | 1. Operate and ma guided missile launching syster rocket launchers and other gunne systems and equ | duties in almost kind ns, of Navy environment: s, ship, shore, United ry States, overseas. iipment. Their work and | | | | | |
| | | | Train and super- crews in the use all types of gung equipment from missiles to small arms. | of outdoor situations, hery clean or dirty work, deck or shop, and | | | | | |

Note. This material was condensed from the Navy Career Guide, 1979-1980, Navy Recruiting Command.

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| | School Training Time | | Job | | |
|----------------------------------|-------------------------|---------------------------|-----------|---|--|
| Rating | Location | Training Time (Weeks) | | Task | Environment |
| | | lectricity and Electronic | (C | ontinued) | ······································ |
| Gunner's Mate (GM) | | | 3. | Take charge of gun | with others, inde- |
| Continued) | | | | or turret as local control officer. | pendently or closely supervised. They sometimes do menta |
| | | | 4. | Control the storage and use of explosives. | work and sometimes physical, depending on their assignment. |
| | | | 5. | Operate magazine flooding and sprinkling systems. | |
| | | | 6. | Control use of field equipment such as packs, helmets, gas masks, and bayonets. | |
| | | | 7. | Work with Circuit dia- grams and blueprints. | |
| | | | 8. | Make sensitivity and selectivity measure- ments for electronic equipment. | |
| | | | 9. | Make mechanical, electrical, and electronic Casualty analysis. | |
| | | | 10. | Repair, maintain, test, and calibrate ordinance equipment. | |
| | | Aviation Mecha | nic | | |
| Aviation Machinists Mate (AD) | Memphis, TN | 1-9 | l. | Maintain and service jet and reciprocating engines and their systems (fue), oil, induction, cooling, compression, com- bustion, turbine, and exhaust). | ADs work at sea or ashore, on hangar and flight decks, in shops and out on air strips. They may be assigned clean or dirty jobs from one time to |
| | | | 2. | Handle and service aircraft on the ground and on ships. | another, but they are almost always working in a noisy environment. |
| | | | 3. | Supervise jet engine repair. | They do mostly physical work, and work closely with |
| | | | 4. | Maintain carburetors and fuel systems. | others under supervision. Note. ADs may also |
| | | | 5. | Perform spectro- metric oil analysis tests. | volunteer for flight duty with air crews. |
| | | | 6. | Keep records of analysis. | |
| | | | 7. | Evaluate jet engine performance, using jet test cells for fixed turbojet engines. | |
| | | | 8. | Perform helicopter maintenance; install and maintain engines and accessories, drives, and gear boxes. | |

Note. This material was condensed from the Navy Career Guide, 1979-1980, Navy Recruiting Command.

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| | School Training Time | | | Job | | |
|------------------------|-------------------------|-------------|-----|--|--|--|
| Rating | Location | (Weeks) | | Task | Environment | |
| | | Electricity | | | | |
| viation Electrician | Memphis, TN | 17-22 | 1. | Test, install, and | Because AEs may | |
| Mate (AE) (BE/E | | | | maintain a wide | be assigned to sea | |
| Required) | | | | range of aircraft | duty or flight | |
| | | | | instruments and | duty in any part of | |
| | | | | electrical equip- | the world, their | |
| | | | | ment, including | environment for | |
| | | | | generators, motors, and lighting systems. | performing their work varies widely, | |
| | | | • | Dend al continui | depending on in- | |
| | | | 2. | Read electrical | dividual assignments. | |
| | | | | system diagrams. | At various times, | |
| | | | 2 | Maintain aircraft | they may work in- doors, outdoors, in | |
| | | | у. | compasses. | clean or dirty | |
| | | | | • | situations, in shop | |
| | | | 4. | Perform electrical | or office surround- | |
| | | | | troubleshooting | ings, and under | |
| | | | | operations. | tropical or arctic | |
| | | | | | conditions. Some- | |
| | | | 2. | Use a variety of | times they work | |
| | | | | electrical measur- | alone, and other time | |
| | | | | ing equipment. | they work closely | |
| | | | 6. | Perform micromini- | with other people. Their work is | |
| | | | 0. | module repair. | mostly physical, | |
| | | | • | moodie repair, | and it is usually | |
| | | | 7. | Maintain automatic | closely supervised. | |
| | | | •• | flight control systems. | cioner, sapervisca | |
| | | | 8. | Maintain inertial | | |
| | | | | navigation systems. | | |
| Electricians Mate (EM) | Great Lakes, IL | 11-16 | 1. | Install power and | Work in the EM | |
| BE/E Required) | | | | lighting circuits. | rating is performed | |
| | | | 2 | Repair distribution | in many situations at sea and ashore. | |
| | | | | circuits. | Most work is per- | |
| | | | | | formed indoors, but | |
| | | | 3. | Run wiring for lights | it may be in a | |
| | | | | and other equipment. | clean or dirty | |
| | | | | ••• | shop-like environ- | |
| | | | 4. | Maintain operating | ment. EMs do | |
| | | | | efficiency of dis- | mostly physical | |
| | | | | tribution panels, | work of a tech- | |
| | ~ | | | switches, switch- | nical nature under | |
| | | | | boards, controllers, | close supervision, | |
| | | | | voitage regulators, | and usually work | |
| | | | | current transformers, | closely with others. | |
| | | | | and voltage trans- formers. | | |
| | | | - | | | |
| | | | 5. | Maintain operating | | |
| | | | | efficiency of | | |
| | | | | electric motors. | | |
| | | | 6. | Repair electrical | | |
| | | | ••• | equipment and | | |
| | | | | appliances. | | |
| | | | 7. | Install and maintain | | |
| | | | | storage batteries. | | |
| | | | 8. | Inspect, maintain, | | |
| | | | | tests, and repair | | |
| | | | | electric power | | |
| | | | | equipment. | | |
| | | | 9. | Connect electric | | |
| | | | | power machinery and | | |
| | | • | | electric power equipment. | | |
| | | | | ayaapinciile | | |
| | | | 10. | Interpret electrical | | |
| | | | | sketches, diagrams, and blueprints, | | |
| | | | | and orders to read | | |
| | | | 11. | Repair and maintain | | |
| | | | | tion picture projectors. | | |

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| | School Training Time | | | Job | | |
|--|--|--------------------------|--|---|------------|--|
| Rating | Location | Training Time (Weeks) | Task | Environment | | |
| | Electricity (Continued) | | | | | |
| Construction Electrician (CE) (BE/E Required) | Port Hueneme, CA or Gulfport, MS | Electricity (Cont | Install, mainta and repair hig low-voltage p lines, undergra and underwate electrical syst Splice and lay erect poles, st wires, and inst transformers - distribution pi Install, repair. maintain stree lighting, fire - public address office, and te switchboard st Install, mainta and repair int wiring for light and electrical ment. Install, operation | h- and ments, CEs may ower find themselves ound working under a er wide variety of tems. conditions, indep dently or as mem cables, of a large team. tring Their duties may tall be carried out in and tropical or arctic anels. climates in many different work , and situations. et alarm, s, inter- lephone ystems. ain, erior hting l equip- | en- ber | |
| | ۰ | | maintain gene and other pow plant equipme | erators ver mt. | | |
| | | | 6. Work with bat electric moto solenoids, and | rs, relays, | | |
| Interior Communications Electrician (IC) (BE/E Required) | San Diego, CA | 12-17 | 1. Maintain a d interior comm tions systems. | nunica- IC rating work | | |
| | | | Prepare and in blueprints, windiagrams, and | ring most of their wo | rk | |
| | | | Install and ins dry cell and st batteries. | ipect a clean or dirty | L | |
| | | | Recharge wet batteries. | celi any kind of clima or temperature. usually work close | iC: eiy | |
| | | | Test interior (tions and gyro equipment. | | le l | |
| | | | Install telepho and other com tions circuits, switchboards, buzzer system | ones nmunica- , boxes, , and bell/ | | |
| | | | 7. Maintain plot and dead reck equipment. | | | |
| | | | 8. Maintain and TV systems. | operate | | |
| | | Ordnance | | | | |
| Aviation Ordinanceman (AO) | Memphis, TN | 11 | 1. Inspect, main and repair air armament sys | craft duties at sea and | | |
| | | | 2. Service aircra gun accessori | aft and and air strips, or | | |
| | | | 3. Stow, assemblication load aviation tion, including mines and tor | le, and mental condition ammuni- They work closel gestial with others under | y r | |
| | | | 4. Service releas | sing physical work. | | |

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| | School Training Time | | | Job | | |
|---|----------------------|--------------------------|-------|--|--|--|
| Rating | Location | Training Time (Weeks) | | Task | Environment | |
| | | Ordnance (Conti | nued) | | | |
| Aviation Ordinanceman (AO) (Continued) | | ····· | 5. | Load supplementary | | |
| | | | 6. | Assemble, test, and maintain air-launched guided missiles. | | |
| | | | 7. | Supervise operation of aviation ordinance shops, armories, and stowage facilities. | | |
| | | | 8. | In patrol squadrons, they may function as members of flight crews. | | |
| Mineman (MN) | Charleston, SC | 13-14 | ١. | Assemble and repair mines. | In the MN rating, work is usually performed in a | |
| | | | 2. | Solve electrical problems relating to mines. | shop environment where dirt and grease are present. | |
| | | | 3. | Check and test elec- trical and electronic mine circuits. | MNs work closely with others, are closely supervised and do mostly phy- sical work. | |
| | | | 4. | Operate various metal-working tools used in the maintenance and repair of mines. | | |
| Gunner's Mate (GM) (see pp A-10-11) | | | | | | |
| Torpedoman's Mate (TM) (BE/E Required) | Orlando, FL | 10-17 | 1. | Maintain, repair, and test the elements of electronic torpedo systems (transmitters, receivers, computer sections, depth con- trol systems, pro- pulsion batteries, and exploder mechanisms). | Work in this rating is usually performed in a clean, comfort- able shop-like environment, under close supervision. Depending on indi- vidual assignments. TMs may work alone or with others and | |
| | | | 2. | Maintain, repair, and test the elements of mechanical/steam torpedo systems (engines, turbines, valves, propellers, and exploder mechansims). | may do mostly menta work. | |
| | | | 3. | Ensure the safe stowage of torpedoes. | | |
| | | | 4. | Maintaín and repair torpedo launching systems. | | |
| | | Navigation | | ······ | | |
| Quartermaster (QM) | Orlando, FL | 6 | 1. | Steer the ship | QMs work both indoor | |
| | | | 2. | Use and maintain navigational equipment. | and outdoors. Gen- erally, they work in a clean, office- | |
| | | | 3, | Take command of tugs, barges, and other small craft. | like environment, but since they may be in any part of the world, tempera- | |
| | | | 4. | Take radar bearings and ranges. | tures may be hot, comfortable, or cold. Depending | |

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Lasses Contraction

| | School | | | 308 | | |
|--------------------------------------|---------------------------------------|--------------------------|--------|---|--|--|
| Rating | Location | Training Time (Weeks) | | Task | Environment | |
| Quartermaster (QM) (Continued) | | | 5. | Make water-depth soundings. | ment, they may work alone or closely with others. They | |
| | | | 6. | Make celestiai observations. | are usually closely supervised, but in some cases they | |
| | | | 7. | Plot courses. | work independently. They do mostly | |
| | | | 8. | Work with nautical charts and records. | mental work. | |
| | | | 9. | Obtain and record data for ship's log. | | |
| | · · · · · · · · · · · · · · · · · · · | Airframe Mec | hanics | | | |
| Aviation Structural Mechanic (AM) | Memphis, TN | 9-11 | 1. | Maintain and repair aircraft parts and equipment. | AMs may be assigned to sea or shore duty any place in the world, so | |
| | | | 2. | Construct replacement equipment. | their working environ ment varies con- siderably. They | |
| | , | | 3. | Use riveting tools and machines, oxy- acetylene welding apparatus and arc- welding equipment. | may be inside, in hangers or hanger decks, or outside on flight decks or air strips. There is usually a | |
| | | | ••• | Maintain operating efficiency of hy- draulic systems. | high noise level from the aircraft. They work closely with others under | |
| | | | 5. | Maintain operating efficiency or air conditioning, pres- surization, oxygen systems, and ejection seats. | close supervision and do mostly physical work. | |
| | | | 6. | Operate equipment required to perform radiographic, ultra- sonic, and eddy cur- rent inspection. | | |

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