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ABSTRACT

This index represents the fourth of five components of a project conducted to design a comprehensive information system (termed SYSTEM) for identifying, selecting, and disseminating relevant military curriculum materials to civilian vocational and technical education programs. The bulk of this particular document consists of abstracts of the civilian-related resident military courses acquired from the Air Force, Army, Coast Guard, Marine Corps, and Navy during the project. Listings of nonresident correspondence courses and incomplete resident courses are also included in the index. Each one-page course abstract includes course title, military course number, "Dictionary of Occupational Titles" number, Department of Defense number, Office of Education occupational cluster, developer of the course, hours of instruction, military curriculum approval date, and course description. The course description provides information about the type of training offered, prerequisites, kind of instructor and student material available, audiovisual aids suggested for use with the course, and the approximate number of pages of printed material. Each listing contains the title of the course, military course number, source, and occupational cluster. (The final report of the project, which provides an overview of all project components, and reports of the other four components are available and abstracted separately.) (LMS)

INDEX OF MILITARY CURRICULUM MATERIALS RELATED TO CIVILIAN VOCATIONAL PROGRAMS

DOD Curriculum Materials Utilization
in Vocational Education
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PREFACE

This document is one of several reports of the "Department of Defense Curriculum Materials Utilization in Vocational Education" project (Contract No. 300-750-276) conducted by The Center for Vocational Education at The Ohio State University. It is an index of abstracts of the civilian-related, military resident technical training courses acquired from the Air Force, Army, Coast Guard, Marine Corps, and Navy during this project. Listings of non-resident correspondence courses and incomplete resident courses are also included in this index.

These military-developed curriculum materials were collected to gain experience in the processes of acquisition and selection and to serve as a nucleus of curriculum materials when the SYSTEM becomes operational.

Other project reports related to the SYSTEM design and overall project activities are:

- Review of Existing Information Systems and Networks: Applicability to the Design of the System
- Military Curriculum Materials Identification, Selection, and Acquisition Strategies and Procedures
- Utilization of Military-Developed Curriculum Materials in Civilian Vocational Programs: A School Survey
- A System to Provide Military Curriculum Materials to Civilian Vocational and Technical Educators

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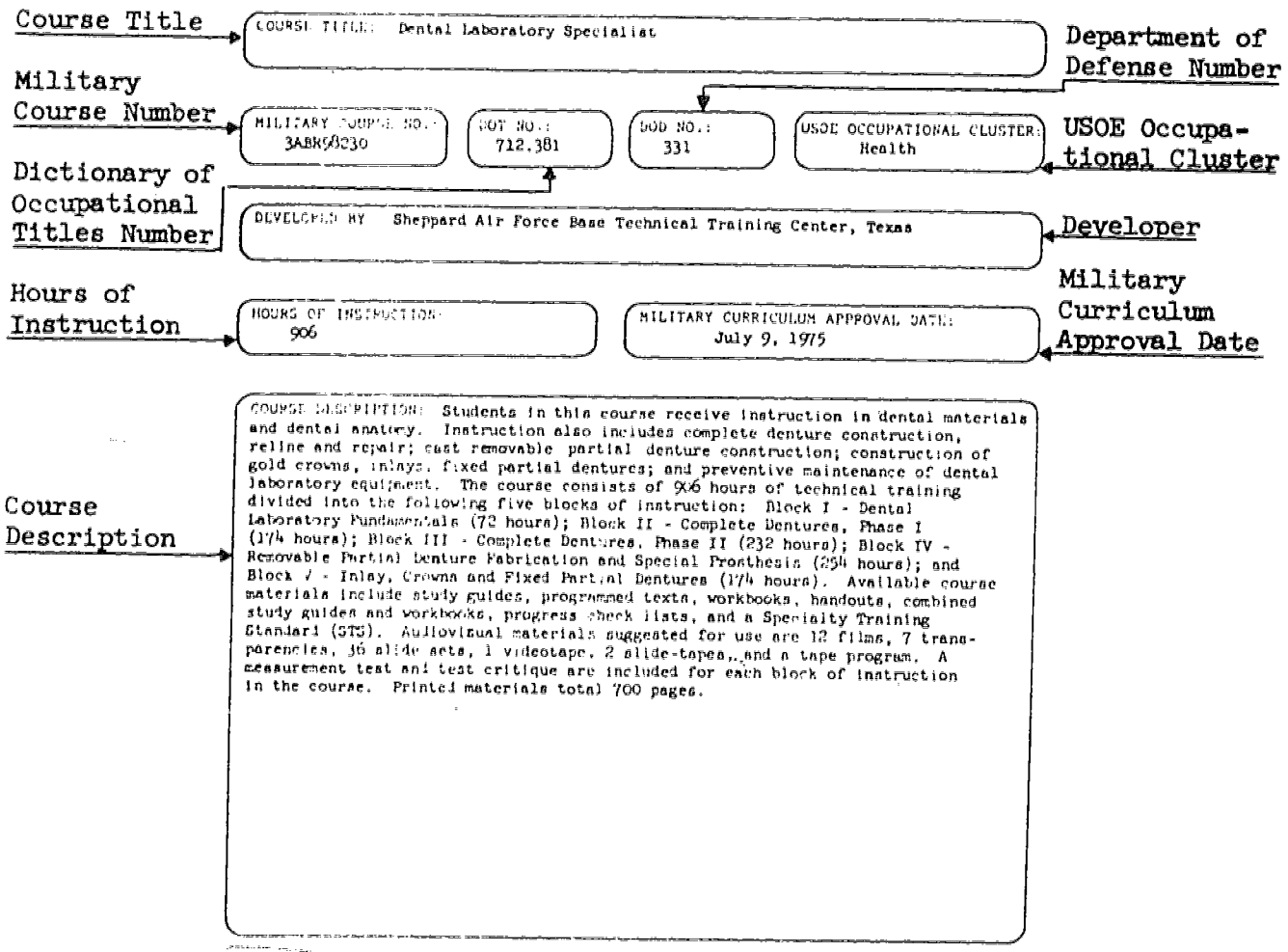
INTRODUCTION

This is an index of the military-developed curriculum materials collected during the "Department of Defense Curriculum Materials Utilization in Vocational Education" project. The index is divided into three parts: (1) Abstracts of Resident Military Courses, Alphabetized by Title; (2) Listing of Non-resident Correspondence Courses, Alphabetized by Title; and (3) Listing of Incomplete Military Resident Courses. Courses in parts one and two are nearly complete, with the exception of audiovisual materials. Courses in part three have a large amount of material missing or the plans or programs of instruction or curriculum outlines were not available to determine the entire contents of the course. Therefore, they have not been abstracted and appear in a separate listing. The abstracts of resident military courses and the listing of correspondence courses have been cross-referenced by U.S. Office of Education occupational cluster and military service branch designation.

This index is designed to be used as a reference to the collection of curriculum materials. It is not intended for use as an availability catalog; therefore, it contains no availability or pricing information. Some of the materials were not immediately available at the time of abstracting. Therefore, discrepancies may occur between the number of materials reported and the actual number in the course. Also, deletion of military-specific topics within the course has resulted in a discrepancy between the number of hours reported in the abstract and the number reported in the plan or program of instruction or the curriculum outline. Each course will need to be carefully checked before preparing ordering information.

Each one-page course abstract includes the following information: course title, military course number, Dictionary of Occupational Titles number, Department of Defense number, U.S. Office of Education occupational cluster, developer of the military course, hours of instruction, military curriculum approval date, and course description. The course description provides information about the type of training offered, prerequisites, kind of instructor and student material, audiovisual aids suggested for use with the course, and the approximate number of pages. An example of the abstract follows:



COURSE TITLE: Advanced Automotive Mechanic/Maintenance NCO Leadership Course

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
MC 610	620.281	610	Transportation

DEVELOPED BY: Marine Corps Base, Camp Lejeune, North Carolina

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
503	July 29, 1974

COURSE DESCRIPTION: Students completing this course will be able to perform the functional tasks of an automobile mechanic and to develop the leadership skills that are essential for effective supervision of maintenance and repair of automotive equipment. Prerequisite for this course is the Basic Automotive Mechanic Course. This course involves 503 hours of study, including topics such as Introduction and Evaluation (27 hours); Leadership (20 hours); Mechanical Training (19 hours); Repair/Overhaul of Various Engines (356 hours); and Automotive Maintenance (81 hours). The program of instruction provides a schedule of instruction, performance objectives, methods of instruction, and references. Available for the teacher are 2 handouts, 67 technical manuals, 1 technical bulletin, and 16 tests. No audiovisual aids are suggested. The course is primarily group-instruction oriented. Printed materials total 441 pages.

COURSE TITLE: Automotive AC Electrical Systems

MILITARY COURSE NO.: 3AZR47252-2

DOT NO.: 620.281

DOD NO.: 610

USOE OCCUPATIONAL CLUSTER: Transportation

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION: 88-94

MILITARY CURRICULUM APPROVAL DATE: October 20, 1975

COURSE DESCRIPTION: This nine-block course is designed to provide maintenance personnel with the technical knowledge and skills necessary to repair automotive electrical systems. The 88-94 hours of training (via discussions, demonstrations, performance activities, and outside assignments) include a review of electricity and magnetic fundamentals; principles and operation of electrical system components; repair and testing of starting motors; AC and DC generators; construction, operation, repair and testing of rectifiers, vibrating contact regulators and transistorized regulators. In addition, instruction includes the use of special equipment to test, troubleshoot, and diagnose starting and charging system malfunctions. Units that make up this course and the numbers of training hours per unit are (1) Review of Fundamentals of Electricity, Magnetism, Ohm's Law and Use of AC and DC Meters (8 hours); (2) Construction, Maintenance, Care and Testing of Automotive Storage Batteries (8 hours); (3) Principles, Construction, Maintenance, and Testing of Automotive Cranking Motors and Cranking Motor Circuits (8 hours); (4) Principles of Construction, Operation, and Testing of "A" and "B" Circuit Generators, Regulators, and Charging Circuits (24 hours); (5) Principles of Construction, Operation, Design, and Testing of Standard Duty Self-Rectifying Alternators (16 hours); (6) Testing, Repair, and Adjustment of Standard Duty AC Charging System and Components (6 hours); (7) Principles of Construction and Operation of Transistorized and Full Transistorized Regulators, and Testing of Charging Systems Using Transistorized and Full Transistorized Regulators (6 hours); (8) Principles of Construction, Operation, and Testing of External Rectified AC Charging Systems (11.5 hours); and (9) Diagnosis of DC and AC Charging Systems (3.5 hours). Each unit of instruction includes a course critique, measurement test, and test critique. Materials available for use by the instructor include a plan of instruction (POI) and lesson plans for each unit covered in the course. Four films and one videotape are suggested as audiovisual aids for the instructor's use; special test equipment is also suggested for use. Student materials include a worksheet, training manuals, and a study guide. The worksheet provides practical hands-on experiences for students in the construction, operation, and testing and adjusting of regulators and circuits for self-rectifying alternators. Study guides address the unit topics previously mentioned. Printed materials total 222 pages.

COURSE TITLE: Automotive Repair Course

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
610-63H20	620.281	610	Transportation

DEVELOPED BY: U.S. Army Ordnance Center and School, Aberdeen Proving Ground, Maryland

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
486	January 28, 1975

COURSE DESCRIPTION: After completing this course, students will have the knowledge required to maintain and repair engines and accessories, power train units, and chassis components for wheeled, tracked, and materials handling equipment. In 486 hours, the student will study Maintenance Operations and Gasoline Engines (74 hours); Diesel Engines (98 hours); Chassis Components (59 hours); Materials Handling Equipment and Hydraulics (48 hours); Wheeled Vehicle (69 hours); Tracked Vehicle (115 hours); Essential Training Subjects (3 hours); and Review and Maintenance (20 hours). Coordinated sets of lesson plans and instructional units are provided for the teacher and students. These materials are primarily designed for group instruction. One hundred four (104) instructional units, 121 lesson plans and 44 supplemental handouts are available. These units include scheduled performance and written examinations. In addition, the lesson plans reference 74 technical manuals, 4 technical bulletins, 1 student text, 6 Army regulations, and 3 lubrication orders. Twenty-one films and four charts are suggested for use. This training unit includes 2,100 pages.

COURSE TITLE: Aviation Electronics Technician Course, Class A

MILITARY COURSE NO.: CG 602

DOT NO.: 639.281

DOD NO.: 602

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: U.S. Coast Guard Aircraft Repair and Supply Center, Elizabeth City, North Carolina

HOURS OF INSTRUCTION: 1,000

MILITARY CURRICULUM APPROVAL DATE: February 28, 1975

COURSE DESCRIPTION: After completing this course, students will have a general knowledge of the electronic fundamentals of A/C communications, navigation, and microwave systems. The student will also understand (1) the theory and operation of airborne electronics systems and (2) the operation and application of general and special electronics test equipment. Instruction in the course involves 1,000 hours of lecture, lab, and administrative/test/review time. These hours involve study in such topics as basic electricity theory, conductors, transistors, circuits, test equipment, RADAR, TACAN, LORAN, UHF, and VHF. An instructor curriculum outline describes the course objectives and presents weekly goals of the instructor. This outline also describes equipment needs, training aids, references, space requirements and staffing requirements. Available for the student is a syllabus of course objectives, weekly goals, equipment needs, training aids, references, space requirements, and staffing requirements. Other support materials include a "How to Study" booklet, study guides for 20 of the units of the course, lesson guide for 14 of the units of instruction, a trainee's manual, 4 handbooks of service instruction, a student handout, and 2 technical manuals. Eighty films are suggested for use. Nine instruction manuals which may be purchased from private companies are highly recommended. The total page count of these printed materials is about 2,500.

COURSE TITLE: Aviation Machinist's Mate, Class A

MILITARY COURSE NO.: CG 600

DOT NO.: 639.281

DOD NO.: 600

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: U.S. Coast Guard Aircraft Repair and Supply Center, Elizabeth City, North Carolina

HOURS OF INSTRUCTION: 540

MILITARY CURRICULUM APPROVAL DATE: March 19, 1975

COURSE DESCRIPTION: Students completing this course will be able to (1) maintain aircraft engines, turbine and reciprocating, and their related systems including the induction, cooling, fuel, oil, compression, combustion, turbine, ignition, propeller and exhaust systems, preflight aircraft; (2) perform intermediate and major inspections on engines and their related systems; (3) field test and adjust components of engines including fuel pumps, valves, regulators, magnetos and other components of the engines and engine-related systems; (4) remove, repair, and replace compressor turbine blades and combustion chamber liners; (5) maintain and adjust helicopter drive shafting, power transmissions, gear boxes, and clutch assemblies; (6) preserve and depreserve engines, engine accessories and components; and (7) supervise engine shops. This course involves 540 hours of technical training, including 409 hours of classroom instruction and 131 hours of line (or practical) instruction. Studies include the following blocks: Mathematics (27 hours), Physics (27 hours), Basic Electricity (27 hours), Aerodynamics/Weight & Balance/Instruments (27 hours), Hardware & Handtools (27 hours), Publications (27 hours), Reciprocating Engines (27 hours), Fuels and Ignition (27 hours), Hydraulics (27 hours), Propellers (27 hours), Line Safety and Inspections (27 hours), Starts, Stops, and Runups (27 hours), Troubleshooting (27 hours), Introduction to the HH 52A Helicopter (54 hours), Introduction to the T-58 Engine (27 hours), Introduction to the T-58 Engine Practical (54 hours), HH 52A Practical (27 hours), and HH 52A Line Servicing & Maintenance (27 hours). Eight course booklets are presently available, including a curriculum outline for the teacher, a mathematics/physics/electrical student workbook, and six programmed instruction booklets for students. No specific audiovisual aids are recommended. Evaluation devices include only self-tests for the instructional materials. The materials are adaptable to individualized instruction. Total pages in the unit number approximately 325.

COURSE TITLE: Avionic Communications Specialist

MILITARY COURSE NO.: 3ABR32830

DOT NO.: 823.281

DOD NO.: 101

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: Keesler Technical Training Center, Keesler Air Force Base, Mississippi

HOURS OF INSTRUCTION: 462

MILITARY CURRICULUM APPROVAL DATE: December 2, 1975

COURSE DESCRIPTION: This course provides training on the operation, testing, adjustment and organizational maintenance and repair of command, liaison, emergency radio, automatic direction finding, and interphone equipment; use of related test equipment; maintenance management and documentation; career progression; and the use of technical and standard publications. The course consists of five blocks of instruction totaling 462 hours. Block titles and their respective hours are: Block I - Command Equipment Principles and Maintenance (174 hours); Block II - Liaison Equipment Principles and System Maintenance (102 hours); Block III - FM Principles and Equipment Maintenance (40 hours); Block IV - Aircraft Wiring and Interphone Systems (78 hours); and Block V - Aircraft Communications Systems Maintenance Procedures (68 hours). Each course is concluded with a measurement test and test critique. Prerequisites for this course include course 3AZR30020-1, Electronic Principles, which consist of a plan of instruction and a course chart. Student materials include 10 workbooks, 32 programmed texts and 9 circuits and diagrams. Audiovisual materials suggested for use in this course include 3 films, 2 cassette tapes, 5 sound on slide sets, 1 set of 35 mm slides, and 1 cassette tape with 35 mm slides. Printed pages total 2,000.

COURSE TITLE: Avionic Navigation Systems Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR32831	823.281	102	Manufacturing

DEVELOPED BY: Keesler Technical Training Center, Keesler Air Force Base, Mississippi

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
482	March 22, 1976

COURSE DESCRIPTION: This seven-block, 482 hour course is designed to train students in avionic navigation systems maintenance management and maintenance data collection; communications security and safety procedures; principles of radio compass systems; block diagram analysis and analysis of selected circuits; characteristics and block diagram analysis of transistorized radio compass systems, minimum performance standards checks, adjustments, and troubleshooting procedures; principles of VOR/ILS systems; block diagram analysis of selected circuits in a VOR/tone localizer receiver; comparison of transistorized glide-slope and marker beacon systems; principles and utilization of TACAN transceivers; block diagram analysis and analysis of selected circuits in the receiver, selected range, and special purpose circuits. Block titles and their respective hours include: Block I - Airborne Radio Compass Receivers (78 hours); Block II - VOR and ILS Receivers (80 hours); Block III - TACAN Transceivers (78 hours); Block IV - Electronic Altimeters (40 hours); Block V - Search and Weather Radar (102 hours); Block VI - Transponders (64 hours); and Block VII - Organizational Maintenance, Intermediate Maintenance, and KI-1A Systems (140 hours). In the last block, $23\frac{1}{2}$ hours are considered confidential to the military. Each block is concluded with a measurement test and test critique. A prerequisite to this curriculum is the Electronic Principles course, 3AQR30020-1. Materials available for the instructor include three volumes of plans of instruction and lesson plans. Student materials consist of 5 study guides/workbooks, 7 student texts, 4 workbooks, 10 programmed texts, and 11 student handouts. Audiovisuals suggested for use in this course include 6 films, 1 transparency set, 1 slide set, and 2 video tapes. Printed materials for this course total 1,650 pages.

COURSE TITLE: Bakery NCO Leadership Course

MILITARY COURSE NO.: MC 800

DOT NO.: 313.781

DOD NO.: 800

USOE OCCUPATIONAL CLUSTER: Personal Services

DEVELOPED BY: Marine Corps Service Support Schools, Marine Corps Base, Camp Lejeune, North Carolina

HOURS OF INSTRUCTION: 334

MILITARY CURRICULUM APPROVAL DATE: April 27, 1973

COURSE DESCRIPTION: In this course, students gain the leadership and technical skills necessary for the effective management of a baking section of a dining facility, a central pastry shop, or a bakery platoon of a Ration Company. A prerequisite for this course is successful completion of the Basic Baker Course, MC 800. In 334 hours of instruction, the students will study five instructional units: School Introduction (5 hours); Service Support Leadership (20 hours); Bakery Management Skills in a Garrison (180 hours); Bakery Management Skills in a Mobile Bakery Plant (50 hours); and Bakery Management Skills in a M-1942 Portable Bakery Unit (49 hours). Examinations will require 30 hours of time. A program of instruction is available for the teacher which describes the scope of each instructional unit and identifies performance objectives for each unit. Available for students are two programmed texts and three other texts. While some of the materials are for individualized instruction, others are reference materials for the class. Twelve references, including five technical manuals, are recommended for use. No audiovisual aids or examinations are suggested for use. Pages in this course total about 425.

COURSE TITLE: Base Vehicle Equipment Mechanic

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR47230	620.281	612	Transportation

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
512	June 2, 1975

COURSE DESCRIPTION: This course is composed of seven blocks of instruction with a total of 512 hours of technical training. The course trains students to inspect, service, test, adjust, troubleshoot, and repair engines, power trains, steering systems, suspension systems, electrical systems, hydraulic systems, track frame and components of construction equipment, with emphasis on the use of technical and standard publications. Students also become familiar with organizational and intermediate level maintenance, maintenance and man-hour accounting forms, maintenance systems, and maintenance documentation, as applicable to base maintenance equipment. Block titles and the number of hours of technical training required for each block are as follows: Block I - Introduction to Base Vehicle Equipment, Publications, and Gasoline Engines (60 hours); Block II - Automotive Electrical Systems, Engine Troubleshooting, and Tune-up (66 hours); Block III - Diesel Engines (80 hours); Block IV - Hydraulics, Air Systems, Brakes, Clutches, and Transmissions (78 hours); Block V - Power Trains, Steering and Truck Mounted Crane (80 hours); Block VI - Track, Wheel Tractors, Grader and Power Control Unit (78 hours); Block VII - Scraper, Air Compressor, Snow Removal Equipment, and Sweepers (70 hours). Each block of instruction includes a measurement test and test critique. Films, maintenance forms, technical orders, plan of instruction and supplemental lesson plans, training manuals, and a Specialty Training Standard (STS) for evaluating students' proficiency on the subject matter are materials available for instructor use. Twelve films, two videotapes, transparencies, and charts are suggested as audiovisuals for the course. Study guides, workbooks, programmed texts, and handouts for content covered in each block of instruction are also included for use by students. Printed materials total 2,552 pages.

COURSE TITLE: Basic Automotive Mechanic Course

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	SOE OCCUPATIONAL CLUSTER:
MC 610	620.281	610	Transportation

DEVELOPED BY: Marine Corps Service Support Schools, Marine Corps Base, Camp Lejeune, North Carolina

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
399	1973

COURSE DESCRIPTION: Students completing this course will be able to perform the inspections, diagnostic tests, adjustments, services, and repairs to tactical motor transport equipment. This 399 hours of study includes study in Driver Training; Automotive Fuel-Electrical Systems; Automotive Power Transmission Systems; Chassis, Brakes, and Suspension Systems; Maintenance Management; Maintenance Equipment; and Preventive Maintenance. The teacher's program of instruction includes a specific allocation of time for each of the specific studies and a complete statement of student's objectives. Complete outlines and scripts are provided for each lesson. Student materials include 3 study guides and a text book. No particular audiovisuals are suggested in this course. The number of pages in this set total about 1,250.

COURSE TITLE: Basic Baker Course

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
MC 800	313.781	800	Personal Services

DEVELOPED BY: Marine Corps Service Support Schools, Marine Corps Base, Camp Lejeune, North Carolina

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
294	November 8, 1972

COURSE DESCRIPTION: In this course, students learn the fundamental duties within a dining facility, centralized pastry shop, or field bakery platoon. Two hundred ninety-four hours of instruction are required for the following five units: School Introduction (5 hours); Baking Technology (177 hours); M-1942 Portable Bakery Unit (46 hours); M-1945 Mobile Bakery Plant (32 hours); and Examination (34 hours). The teacher's program of instruction booklet describes the scope of each of the above units. In addition it identifies appropriate performance objectives for the student. A "Student Workbook" is basically a reference book. Students are provided two programmed instruction texts and three other texts. While some of the materials are for individualized instruction, others are reference materials for group-oriented instruction. Twelve references, including six technical manuals, are also suggested for use. No audiovisual aids or examinations are suggested for use. Pages in this course total about 490.

COURSE TITLE: Basic Electricity and Electronics School

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER
A-100-0010	824.281	100	Construction

DEVELOPED BY: U.S. Naval Development and Training Center, San Diego, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
Individualized	February, 1971

COURSE DESCRIPTION: Upon completion of this course, students will be able to (1) apply proper safety precautions as they apply to himself and equipment, (2) solve fundamental electrical problems by application of basic mathematical principles, (3) adjust and use basic test equipment for taking voltage, current, and resistance measures in DC and AC current, and (4) explain basic current, voltage, resistance and power relationships in AC and DC circuits. This is an individualized course in Basic Electricity and Electronics; therefore, no time limits are placed on the 25 modules. Available for the teacher is a two-volume curriculum guide set which describes student objectives, performance evaluations, and class references. Student study is self-managed; students are encouraged to make their own decisions regarding learning media/modes which are most effective for them. The available media are: (1) three modes of printed material--Summary, Narrative, and Programmed Instruction; (2) Sound/Slide Lessons; (3) Super 8 mm lessons; (4) Tape Recordings of All Narratives; (5) Supplementary Library Material; and (6) the Learning Supervisor. Materials available in this course are 1 technical manual, 37 individualized learning system study booklets, 4 progress check booklets, 13 evaluation sheets and information sheets, 37 handouts, 94 audiovisuals, and 2 programmed instruction booklets. Printed documents available total 4,450 pages.

COURSE TITLE: Basic Food Service Course

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
MC 800	315.381	800	Personal Services

DEVELOPED BY: Marine Corps Service Support Schools, Marine Corps Base, Camp Lejeune, North Carolina

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
314	July 19, 1974

COURSE DESCRIPTION: After completing this course, students will be able to effectively perform the duties of a cook. The course involves 314 hours of instruction, including studies in Fundamentals (30 hours); Baking (79 hours); Preparation of Meals Within a Facility (143 hours); and Preparation of Meals Under Field Conditions (62 hours). The teacher's program of instruction describes the scope of study in each of the areas listed above and enumerates applicable performance objectives. Other materials available in this course are 6 student reference manuals (2 of which are programmed texts) and 2 student workbooks. While some of the above are adaptable to individualized instruction, others are basically reference materials. In addition to these booklets, 15 technical manuals and 3 general booklets are suggested for additional reference. No audiovisual aids or examinations are recommended for use. Pages in this course total about 750.

COURSE TITLE: Builders, Class B

MILITARY COURSE NO.: A-710-0011 and A-710-0014

DOT NO.: 840.884

DOD NO.: 710

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Naval Construction Training Center, Port Hueneme, California

HOURS OF INSTRUCTION: 447

MILITARY CURRICULUM APPROVAL DATE: October, 1970

COURSE DESCRIPTION: Students completing this course will be able to solve mathematical problems related to the building trade; develop construction plans and drawings; operate and maintain carpenter shop machinery; construct cabinets, windows, door frames, sashes and doors; perform the duties of a foreman; construct light frame structures; point, roof, plaster, and stucco; fabricate concrete forms and precast and tilt-up panels; lay concrete blocks and bricks; install ceramic tile; erect advanced base structures; strengthen structural foundations by shoring, needling, and underpinning; drive piles, fabricate and erect timber bridges and trestles; construct caissons, coffer dams, and water front structures; and make manpower and material estimates and schedules for construction projects. The course involves 447 hours of classroom and practical instruction, presented in 11 units. These units include Applied Mathematics (27 hours); Shop Machinery (60 hours); Foremanship (24 hours); Light Frame Construction (88 hours); Concrete (66 hours); Masonry (31 hours); Plastering and Ceramic Tile (30 hours); Advanced Base and Water Front Structures (60 hours); and Project Planning (61 hours). The curriculum guide provides the teacher with an enumeration of objectives, outlines of instruction sequence, training aids, textual and referential publications, and equipment/tools/supplies. Forty-one texts are recommended, with 21 of them being government produced. Twenty-four Naval training films, 106 transparencies, and 3 other graphic aids are recommended for use. Twenty-two commercially produced films are suggested for use. The course is group-instruction oriented. No performance or written tests are provided. Written materials total 700 pages.

COURSE TITLE: Builders School, Applied Builders Mathematics

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
100.2	840.884	710	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
30	September, 1975

COURSE DESCRIPTION: This short course trains students in the mathematical skills required by Builders. A total of 30 hours of instruction are spent on Integer Operations (3 hours); Fractions and Mixed Numbers (4 hours); Decimals (3 hours); Percentages/Conversion of Ratios (6 hours); Powers, Roots, and Right Triangles (7 hours); and Mensuration (7 hours). The program of instruction outlines student objectives, identifies two student texts, and provides an outline of instructional sequence. No films or audiovisual aids are suggested. Six criterion tests are provided. This course is primarily group-instruction oriented. Printed materials total 64 pages.

COURSE TITLE: Builders School, Ceramic Tile Setting

MILITARY COURSE NO.: 167.1

DOT NO.: 840.884

DOD NO.: 710

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION: 30

MILITARY CURRICULUM APPROVAL DATE: February, 1976

COURSE DESCRIPTION: Students completing this short course will be trained in mortar preparation, surface preparation, tile layout planning, tile setting, tile cutting, and the grouting of tile joints. A total of 30 hours of instruction are spent on Mortar Mixing and Ceramic Tile Setting Surface (10 hours) and Ceramic Tile Installation (20 hours). Instructor's guides, which are prepared for each topic, describe instructional materials, instructional aids, terminal and enabling objectives, criterion tests and homework assignments. The recommended text is a Navy publication; four references which are suggested for use are commercially produced. Four military-produced job sheets are also available. A commercially produced film and a slide presentation are suggested for use. Specific criterion tests are not provided. The course seems to be primarily group-instruction oriented. Written materials total 59 pages.

COURSE TITLE: Builders School, Class A

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
A-710-0010	840.884	710	Construction

DEVELOPED BY: U.S. Naval Construction Training Center, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
266	December 23, 1974

COURSE DESCRIPTION: After completing this course, students will be able to use builder's tools, equipment and materials; read simple construction drawings in manufacturing woodworking projects; erect light frame and concrete masonry unit structures, pre-engineered building and heavy timber bridges; install and finish drywall; prepare and install door jamb with casing and base board; install composition floor tile and ceramic tile; layout and apply materials for built-up roofing; apply stucco and paint; mix, transport, place and finish concrete at specified standards. This course involves 266 hours of instruction, including study in Woodworking and Millworking (33 hours), Light Frame Structures (38 hours), Interior Finishing (33 hours), Roofing (9 hours), Painting (14 hours), Masonry (42 hours), Concrete (45 hours), Exterior Finishing (15 hours), Ceramic Tile (16 hours), and Advanced Base Structures (21 hours). The curriculum outline describes course texts, suggested references, and tools and equipment. Eleven commercial films and ten military films are suggested for use. Forty-one transparencies and charts, [illegible] models, 2 drawings, 2 display panels, and 51 job sheets are provided to support student learning. The instructor guides include information sheets, assignment sheets, class notes, tests, and performance evaluation. While the traditional methods of conference, demonstration and practical exercise are used during this course, some of the materials are adaptable to individualized instruction. These instructional materials total 500 pages.

COURSE TITLE: Builders School, Finish Carpentry I

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
164.1	860.381	712	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
31	July, 1975

COURSE DESCRIPTION: Students completing this short course will be able to finish carpentry projects involving wallboard, plywood panel, composition floor tile, and accoustical ceiling tile. The 31 hours of instruction include study in Orientation and Safety (2 hours); Wallboard (16 hours); Plywood Panel (3 hours); Composition Floor Tile (5 hours); and Accoustical Ceiling Tile (5 hours). Instructor's guides, which describe each study topic, list instructional materials, instructional aids, terminal and enabling objectives, criterion tests, and homework assignments. A military-produced text is available; three commercially produced books are recommended. To help the student, five job sheets and one information sheet are available. Six films are also recommended for use. Specific criterion tests are not provided. The course is primarily group-instruction oriented. Written materials total 90 pages.

COURSE TITLE: Builders School, Glazing

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
198.1	840.884	710	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
14	February, 1976

COURSE DESCRIPTION: Students completing this short course will be able to replace a broken glass pane and complete the glazing in a wood sash. Fourteen hours of instruction (both in class and practical) are provided. The teacher's instruction guide offers information about references, instructional materials, instructional aids, objectives, applicable criterion tests, and homework assignments. One military-produced text and one job sheet are available. One commercially produced book and one film are recommended. This course is group-instruction oriented. Written materials total 40 pages.

COURSE TITLE: Builders School, Light Frame Construction I

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
150.1	840.884	710	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
50	May, 1975

COURSE DESCRIPTION: Students completing this short course develop the skills required in basic substructure framing, wall framing, and roof framing. Fifty hours of instruction involve study in Orientation and Safety (2 hours); Sills and Girders (6 hours); Floor Joists and Solid Bridging (5 hours); Subfloors and Wall Plates (5 hours); Wall Members (17 hours); Ceiling and Roof Construction (7 hours); Gable End Studs (3 hours); and Course Summarization (5 hours). The teacher's instruction guide offers information about references, instructional materials, instructional aids, objectives, applicable criterion tests, and homework assignments. One military-produced text and 12 job sheets are available for the student. Two commercially produced books are recommended. Seven films, 20 transparencies, and 2 charts are suggested for use. This course is primarily group-instruction oriented. Criterion tests are available when applicable. Written materials total 125 pages.

COURSE TITLE: Builders School, Light Frame Construction II

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
150.2	840.884	710	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
57	January, 1976

COURSE DESCRIPTION: Students completing this short course will be able (1) to interpret construction drawings for the layout of wood frame members for service-type stairs, and all types of rafters and (2) to set up, operate, and perform operator's maintenance on the trailer-mounted saws. In 57 hours of instruction, the student will study Orientation and Safety (2 hours); Trailor-Mounted Saws (3 hours); Roof Framing Plan (4 hours); Common Rafters (4 hours); Hip and Valley Rafters (10 hours); Hip and Valley Jacks (10 hours); Roof Truss Construction (13 hours); Stair Construction (6 hours); and Course Summarization (5 hours). The teacher's instruction guide offers information about references, instructional materials, instructional aids, objectives, criterion tests (when applicable), and homework assignments. One military-produced text and seven job sheets are available for the teacher. One commercially produced text and two commercially produced books are recommended. Four films and four transparencies are also suggested for use. This course is primarily group-instruction oriented. Written materials total 150 pages.

COURSE TITLE: Builders School, Plastering

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
166.1	840.884	710	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
21	January, 1976

COURSE DESCRIPTION: Students completing this short course will be able to mix mortar for plastering by using the six-cubic foot mortar mixer and complete assigned plastering projects. The course involves 21 hours of classroom and practical study. The teacher's instruction guide offers information about references, instructional materials, instructional aids, objectives, criterion tests (when applicable), and homework assignments. One military-produced text and three job sheets are available. One commercially produced book and one film are suggested for use. The materials are primarily group-instruction oriented. Printed materials total 50 pages.

COURSE TITLE: Builders School, Roofing

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
162.1	840.884	710	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
24	January, 1976

COURSE DESCRIPTION: Students completing this short course will be able to use common tools in laying out, building and maintaining wood and composition shingles, roll roof coverings, and built-up roofing coverings. In 24 hours of instruction, the student will study Orientation and Safety (2 hours); Build-Up Roofing (10 hours); Composition Shingle Roof Covering (7 hours); Wood Shingle Roof Covering (2 hours); and Course Summarization (3 hours). The teacher's instruction guide offers information about class objectives, references, instructional materials, instructional aids, homework assignments, tools and materials. Criterion tests are provided, if applicable. A military-published text, a military-produced reference book, and four job sheets are available. Four commercially produced books, two training films, and several practical samples are suggested for use. This course is designed primarily for group instruction. Written materials total 80 pages.

COURSE TITLE: Cardiopulmonary Laboratory Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ALR91630	070.108	300	Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
312	April 23, 1975

COURSE DESCRIPTION: This three-block course consists of 312 hours of technical training. It is designed to train students to assist cardiologists and pulmonary physiologists in examining, evaluating, diagnosing, and treating cardiopulmonary diseases and injuries. Students are taught to perform a wide range of diagnostic and therapeutic procedures, such as administering electrocardiograms, phonocardiograms, vectorcardiograms, stress tests, and blood gas analysis. Anatomy, physiology, medical terminology; care of cardiovascular disorders, and inhalation therapy are among the major areas of study. The three blocks to be studied are: Block I - Cardiology (124 hours); Block II - Pulmonary Medicine (110 hours); and Block III - Introduction to Respiratory Therapy (78 hours). Two films, 19 programmed texts, 2 handouts, 11 study guides, a plan of instruction and lesson plans, a Specialty Training Standard (STS), slides, combined study guides and workbooks, transparencies, filmstrips and tapes or cassettes, and sound tapes are among the instructional materials suggested for use by students. Each block of this course concludes with a measurement test and test critique. Printed materials consist of 1,361 pages.

COURSE TITLE: Carpentry Specialist

MILITARY COURSE NO.: 3ABR55230

DOT NO.: 860.381

DOD NO.: 712

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 264

MILITARY CURRICULUM APPROVAL DATE: May 1, 1974

COURSE DESCRIPTION: This 264-hour course is designed to provide basic level training in carpentry. Technical training includes an introduction to carpentry; use of carpenter's hand, portable power, and shop tools; construction and maintenance of wood structures; installation of building hardware; and erection of prefabricated buildings. The course is divided into four blocks, the titles and hours of each being: Block I - Introduction to Carpentry (60 hours); Block II - Cabinet Construction (60 hours); Block III - Building Construction (74 hours); and Block IV - Building Finish Work (70 hours). Each block of instruction is concluded with a measurement test and test critique. Materials for use by the instructor include a plan of instruction (POI) and lesson plans for each block of instruction. Four films on building techniques are suggested for use as audiovisual aids for the instructor. Student materials include 7 study guides, 4 workbooks, and 2 programmed texts. Printed materials for this course total 575 pages.

COURSE TITLE: Construction and Utilities Worker

MILITARY COURSE NO.: AR 710

DOT NO.: 840.884

DOD NO.: 710

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION: 241

MILITARY CURRICULUM APPROVAL DATE: April 16, 1973

COURSE DESCRIPTION: After completing this course, students will be proficient in the utility workers' or construction helpers' skills. The course involves 16 units of study, totaling 241 hours of instruction. Major areas of study are (1) power tools, practical math, construction drawings, rigging and carpentry, (2) masonry, (3) plumbing, (4) sheet metal, (5) electrical construction and refrigeration, and (6) pipeline construction. An evaluation instrument is provided for each scheduled examination. The instructor's booklet includes a plan of instruction, lesson plans, references, equipment requirements, and facilities requirements. The student's workbook is available for in-class notes and for test reference. Audiovisual aids suggested for use with this course are 6 training films, 2 miscellaneous films, and 8 graphic training aids. Printed materials for this course total 242 pages.

COURSE TITLE: Construction Electrician, Class A1

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
A-721-0018	824.281	721	Construction

DEVELOPED BY: U.S. Naval Construction Training Center, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
240	June, 1975

COURSE DESCRIPTION: Upon completion of this course, students will be able to perform apprentice duties pertaining to the installation of overhead electric distribution systems up to 5,000 volts, operate power plants up to 200 KW singly or in parallel, install and operate a tactical field telephone system, install interior wiring systems with associated electrical devices and equipment, and perform electrical tests and maintenance on 115/230 volt circuits. This course, which involves five units of instruction, is designed for 240 hours of instruction (both practical and academic). These units are Introduction (7 hours); Pole Climbing Indoctrination (23 hours); Interior Electrician (96 hours); Power Generation and Distribution (107 hours); and Field-Telephone Communications (7 hours). The teacher's curriculum guide outlines instructional objectives, lists texts/references, identifies tools/equipment/materials, and suggests training aids. Thirty-two instructor guides, 5 reference books, 33 student job sheets, and 16 military films are suggested for use. One text book, "Pole Climbing Techniques," is written in a programmed instruction format. Four commercial films are also recommended for use in the course. While these materials may be adapted to individualized instruction, at present they are in small modules for group instruction. Criterion testing is used in this course and a series of performance tests for each scheduled evaluation is provided at the end of each unit. Printed materials in this course total 550 pages.

COURSE TITLE: Construction Electrician School, Shore Based Power Plant Operations

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
212.1	952.782	662	Public Service

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
28	June, 1975

COURSE DESCRIPTION: Students completing this short course will be able to perform pre-start checks and operational procedures on generators with varying capacities up to 200 KW. Twenty-eight hours of study will involve instruction in Orientation and Safety (1 hour); Principles of System Operation (1 hour); System Performance (1 hour); Operating Procedures (2 hours); Engine Driven Generators (2 hours); and Power Plant Operations (21 hours). The instructor's guide offers information about class objectives, references, instructional materials, instructional aids, homework assignments, tools, and materials. Two military manuals, one job sheet, and four criterion tests are available for use in the course. Suggested training aids include five transparencies. The course is primarily designed for group instruction. Written materials total 69 pages.

COURSE TITLE: Construction Equipment: Asphalt Mixing and Paving Equipment Operations

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
AR 730	853.883	730	Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
128	No date

COURSE DESCRIPTION: After completing this course, students will meet entry-level standards for properly mixing aggregate and bitumen in a central mix plant and operating associated placement equipment used in bituminous construction. Specifically, this course includes study in (1) types and properties of bituminous surface components, (2) types of bituminous treatments and pavements, (3) causes for surface failures, (4) construction and maintenance of surfaces, (5) operation and knowledge of hot oil heater, asphalt melter, 165-gallon bituminous kettle, bituminous distributors, and paving machines, (6) construction of plants, (7) installation of aggregate feeders, cold elevators, aggregate dryers and dust collecting machines, (8) preventive maintenance on associated machinery, and (9) operation and maintenance of equipment. The course consists of 128 hours of instruction. For the instructor's use, a plan of instruction booklet is provided which describes the objectives of the course, identifies information sources for the teacher, enumerates learning objectives for the student, describes an outline of instruction, and provides selected performance measures. One commercial training film is suggested for use. Students have one self-paced workbook consisting of six lessons, each with a self-test. Printed materials presently available total 258 pages.

COURSE TITLE: Construction Equipment: Basic Subjects and Vehicle Operation

MILITARY COURSE NO.: AR 730

DOT NO.: 859.883

DOD NO.: 730

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION: 32 .

MILITARY CURRICULUM APPROVAL DATE: No date

COURSE DESCRIPTION: After completing this course, students possess entry-level knowledge of safety, technical publications, records and forms, gradework principles, and the operation of 5-ton trucks. Specifically, the course involves units in Orientation (2 hours), Safety (3 hours), Technical Publications (1 hour), Records and Forms (1 hour), Gradework Principles (2 hours) and Vehicle Operations (23 hours). A series of performance tests for each scheduled evaluation is provided. The instructor's manual also includes an orientation for the teacher, a complete listing of student's objectives, an outline of instruction, references, equipment requirements, and facilities. Three student workbooks are available: (1) a Vehicle Operations Workbook with 3 lessons providing information about operations of motor vehicles; (2) a 3-lesson Study Skills Workbook designed to improve study habits, and (3) a Safety Precaution Workbook presenting information on some of the hazards present in accomplishing Armed Forces duties. Tests are provided at the end of each lesson. An additional student handbook provides daily operational information about Vehicle Operations. Portions of the materials are individualized. Printed materials for this course total 230 pages.

COURSE TITLE: Construction Equipment: Crane Shovel Operation

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
AR 730	850.883	730	Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
128	No date

COURSE DESCRIPTION: By completing this course, students should gain the technical knowledge and skills required to handle construction materials and excavating operations. Specifically, students will have entry-level skills in two areas: (1) crane, clam shell, and dragline and (2) crane, shovel front, back hoe, and piledriver operations. The course requires 128 hours of instruction, with 64 hours involved in each area. Materials may be adapted for individualized instruction. An instructor's plan of instruction includes introductory information about the course, an outline of student objectives, helpful hints for the instructor, information sources, a listing of equipment used, and a complete instructional outline. Students are provided a workbook. A series of performance tests for each scheduled evaluation is also provided. Seven films are suggested for use in this course. Printed materials for this course total 203 pages.

COURSE TITLE: Construction Equipment: Crawler Tractor Operation

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
AR 730	850.883	730	Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
64	No date

COURSE DESCRIPTION: By completing this course, students gain the knowledge and skills required to perform earthmoving operations. Specifically, this course instructs students in operating a crawler tractor as a prime mover for pulling and pushing loads, as a power unit for winches and hoists, and as a moving mount for dozer blades, side booms, and front end loaders. The instructional units in this course, which utilize traditional methods of conference, demonstration, and practical exercise, involve 64 hours of instruction. The course may be adapted for individualized instruction. An instructor's plan of instruction contains student objectives, an instructional outline, some instructional guidance, information sources, training aids, and equipment needs. A student workbook is also available. Training aids suggested for use include one film and two publications. Printed materials for this course total 120 pages.

COURSE TITLE: Construction Equipment: Front End Loader and Forklift Operations

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
AR 730	859.883	730	Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
64	No date

COURSE DESCRIPTION: Students completing this course gain the technical knowledge and skills of earthmoving and materials handling operations. Specifically, students gain entry-level skills in operating (1) the front end loader in stockpiling, digging, backfilling, loading and lifting operations and (2) the forklift in materials handling operations. Of 64 total hours of instruction, 32 will be spent on the front end loader and 32 on the forklift. While the traditional methods of conference, demonstration, and practical exercise are used during this course, the subject matter is adaptable to individualized, self-paced training. A plan of instruction and a student workbook are available. The instructor's booklet includes a listing of the student's objectives, a complete instructional outline, aids for the teacher, lists of equipment needed, and identification of audio-visual aids. A series of performance tests for each scheduled evaluation is provided. The student workbook identifies the learner objectives, provides instructional materials and contains one self-test per lesson. Training aids consist of two technical publications. Printed materials for this course total 132 pages.

COURSE TITLE: Construction Equipment: Motorized Grader Operation

MILITARY COURSE NO.: AR 730

DOT NO.: 851.883

DOD NO.: 730

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION: 64

MILITARY CURRICULUM APPROVAL DATE: No date

COURSE DESCRIPTION: By completing this course, students gain the technical knowledge and skills for earthmoving assignments. Specific skills taught include operation of the motorized grader for grading, bank sloping, and ditching and for general construction and maintenance of roads and runways. The materials are developed for 64 hours of instruction. While traditional methods of conference, demonstration, and practical exercise are used during this course, the subject matter is adaptable to individualized self-paced training. A teacher's booklet contains a listing of student objectives, an outline of instruction, a listing of teacher aids, an identification of equipment needed, and an identification of training aids. A series of performance tests for each scheduled evaluati is provided. Two student handbooks provide information and guidance on the operation of the motorized road grader (3 lessons/3 self-tests) and the fundamentals of gradework and road nomenclature. One film is suggested for use and two technical publications are available. Printed materials for this course total 117 pages.

COURSE TITLE: Construction Equipment: Quarry Blasting Operations

MILITARY COURSE NO.: AR 730

DOT NO.: 850.883

DOD NO.: 730

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION: 128

MILITARY CURRICULUM APPROVAL DATE: No date

COURSE DESCRIPTION: After completing this course, students have the technical knowledge and skills required to meet entry-level requirements to perform rock drilling and blasting operations in support of quarry operations. This instructional unit involves 128 hours of instruction. Materials call for traditional methods of conference, demonstration, and practical exercise, and are adaptable for individualized self-paced training. The instructor's booklet includes a listing of the student's objectives, a description of the instructional outline, a list of teacher aids, descriptions of equipment needed, and identification of training aids. A series of performance tests is provided. The student's workbook provides information about opening up a rock quarry and using explosives to remove rock from the quarry. Each of the four lessons is concluded with a self-test. No audio-visual aids are suggested for use. Printed materials in this course total 186 pages.

COURSE TITLE: Construction Equipment: Quarry Machine Operator

MILITARY COURSE NO.: AR 730

DOT NO.: 850.883

DOD NO.: 730

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION: 202

MILITARY CURRICULUM APPROVAL DATE: October, 1973

COURSE DESCRIPTION: After completing this course, students are able to operate and maintain quarry rock crushing/screening equipment and to identify kind and quality of aggregate. This unit involves 202 hours of training: History of U.S. Army Engineers (1 hour); Army Maintenance System and Publications (2 hours); Army Maintenance Management System (2 hours); Lubricants and Fuels (1 hour); Geology of Pits and Quarries (2 hours); Test and Evaluation (1 hour); Common Major Item Components (11 hours); Operation of the Crushing, Screening and Washing Plant, 75 tons per hour (63 hours); Operation of the Crushing, Screening and Washing Plant, 225 tons per hour (86 hours); Plant Movement and Set Up (25 hours); Reinforcement Training (4 hours); and Proficiency Test (4 hours). The traditional methods of conference, demonstration, and practical exercise are used during this course. An instructor's guide provides a listing of student objectives, an outline for instruction, aids for the teacher, types of equipment needed, and a listing of teacher aids. A performance test for each scheduled evaluation is provided. The student handbook contains two lessons and identifies the learner's objectives, provides information about rock crushing equipment, and contains one self-test per lesson. One training film is suggested for use. Printed materials for this course total 121 pages.

COURSE TITLE: Construction Equipment: Quarry Plant Operations

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
AR 730	850.883	730	Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
128	No date

COURSE DESCRIPTION: Students completing this course have the technical knowledge and skills required to operate equipment which processes quarry rock or gravel (in either washing or dry conditions) and reduces it to an appropriate type of aggregate. This course is designed for 128 hours of instruction, including 64 hours for Quarry Plant Operations (75 tons per hour) and 64 hours for Quarry Plant Operations (225 tons per hour). While traditional methods of conference, demonstration, and practical exercise are used during this course of instruction, the materials are adaptable for self-paced training. A teacher's plan of instruction includes student objectives, an instructional outline, instructor guidance, information sources, training aids, and equipment needs. Performance tests are provided for each scheduled evaluation. No student workbooks and handbooks are provided. No specific training aids are suggested for use. Printed materials total 112 pages.

COURSE TITLE: Construction Equipment: Special Purpose Equipment Operation

MILITARY COURSE NO.: AR 730

DOT NO.: 859.883

DOD NO.: 730

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION: 64

MILITARY CURRICULUM APPROVAL DATE: No date

COURSE DESCRIPTION: Students completing this course gain the technical knowledge and skills to perform general construction operations. Specifically, 64 hours of instruction emphasize wheel tractor back hoe operations (17 hours), compaction equipment (9 hours), air compressor operations (3 hours), concrete miner operations (3 hours), earth auger operations (6 hours), ditching machine operations (13 hours), and water distribution operations (13 hours). The instructor's booklet contains student objectives, an instructional outline, instructor guidance, information sources, training aids, and equipment needs. Performance tests for each scheduled evaluation are provided. No audiovisual aids are suggested for the course. The student's handbook contains six lessons (with a self-check after each lesson). It is designed to help the student learn to identify and operate the machines. The two booklets described total 227 pages.

COURSE TITLE: Construction Equipment: Wheeled Tractor/Scraper Operation

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
AR 730	850.883	730	Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
64	No date

COURSE DESCRIPTION: After completing this course, students have the technical knowledge and skills required for earth-moving operations. Specifically, students develop entry-level skills in the operations of the wheeled tractor/scraper and the motorized scraper for loading, hauling, and spreading earth. The unit involves 64 hours of instruction. While traditional methods of conference, demonstration and practical exercise are suggested for this course, the subject matter may be adaptable for individualized instruction. The teacher's booklet contains student objectives, an instructional outline, some instructional guidance, information sources, training aids, and equipment needs. No audio-visual aids are recommended. A series of performance tests for each scheduled evaluation is provided. The student's workbook provides information and guidance on the operation of the wheeled tractor and consists of three lessons, with one self-test per lesson. Printed materials for this course total 100 pages.

COURSE TITLE: Construction Mechanic, Class A

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
A-610-0022	620.281	610	Transportation

DEVELOPED BY: U.S. Naval Construction Training Center, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
387	May, 1975

COURSE DESCRIPTION: After completing this course, students will be able to maintain and repair automotive and construction equipment. Instruction of both academic and practical natures are designed for 387 hours. This instruction is divided into four phases including Gasoline Engine Repair and Adjustment (103 hours); Diesel Engines (149 hours); Automotive Chassis and Power Train (83 hours); and Heavy Equipment Chassis and Power Train (52 hours). The curriculum outline, which is provided for teachers, lists training objectives; identifies 30 texts (7 of which are published by the military); references 7 other documents (5 of which are military produced); lists tools/equipment/materials needed; describes suggested training aids; and provides a master time schedule. The training aids suggested include 21 Navy films, 14 commercial films, 2 government-produced films, 22 commercial slides, 37 other slides, 2 transparencies, 16 commercial charts, 11 information sheets, 11 job sheets, 1 work sheet, and 3 problem sheets. In this performance-oriented study, traditional methods of teaching are combined with self-study materials, group materials, and group interactive lectures. Criterion testing is used in this course and a series of performance tests for each scheduled evaluation is provided at the end of each unit. Printed materials in this course total 900 pages.

COURSE TITLE: Construction Mechanic, Engine Overhaul I (Cylinder Head)

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
325.1	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
28	January, 1975

COURSE DESCRIPTION: Students completing this short course will work as a member of a two-person team to restore engine performance to meet manufacturer's specifications through a process of disassembly, trouble diagnosis, repair, and assembly of a specified one-inch head. Classroom and practical study total 28 hours. The instructor's guide offers information about class objectives, references, instructional materials, instructional aids, homework assignments, tools, and materials. One military-published manual, one job sheet, and two information sheets are available in this course of study. A slide series and a set of charts are recommended for use in instruction. This course is primarily group-instruction oriented. Written materials total 58 pages.

COURSE TITLE: Construction Mechanic, Engine Overhaul II (Diesel)

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
325.2B	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
56	November 27, 1974

COURSE DESCRIPTION: Students completing this short course will work as a member of a two-person team to restore diesel engine performance to meet manufacturer's specifications through a reconditioning process of disassembly, trouble diagnosis, repair, and assembly. Fifty-six hours of instruction are required for students to achieve the course objectives. The instructor's guide offers information about class objectives, references, instructional materials, instructional aids, scheduling, tools, and materials. Two military-produced texts and one job sheet are available for the students' use. A slide series and a commercially produced book are suggested for use. Criterion examinations are apparently not applicable. This course is primarily group-instruction oriented. Written materials total 72 pages.

COURSE TITLE: Construction Mechanic, Engine Overhaul II (Gasoline)

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
325.2A	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
56	July, 1975

COURSE DESCRIPTION: Students completing this short course will work in two-person teams to restore a gasoline engine's performance to meet the manufacturer's specifications through a reconditioning process of disasse ly, trouble diagnosis (using precision measuring tools), repair, and assembly. s 56-hour unit includes both classroom (16 hours) and practical (40 hours) studies. This involves study in Orientation and Safety (1 hour); Shop Equipment (6 hours); and Disassembly, Check, Repair and Assembly (49 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. Two commercial texts are recommended for use; one military manual is available. One military-produced film is suggested; one job sheet and two information sheets are provided. The course is group-instruction oriented. Written materials total 75 pages.

COURSE TITLE: Construction Mechanic, Engine Tune-Up

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
332.2	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
81	October 9, 1974

COURSE DESCRIPTION: Students completing this short course will be able to perform a complete engine tune-up using appropriate hand tools, special tools, and testing equipment. Specifically, they will diagnose gasoline engine performance and perform corrective measures to restore the engine to the level specified by the manufacturer. This unit, which involves 81 hours of instruction, includes study in Safety (1 hour); Gasoline Engine Tune-Up (25 hours); Test, Diagnose, and Repair Fuel System Components (20 hours); Test, Diagnose, Repair, and Adjust Ignition System Components (21 hours); Positive Crankcase Ventilation Service and Final Tune-Up (14 hours). The instructor's guide provides a time schedule, student objectives, homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One commercially produced manual and three military-produced manuals are suggested for use in this course. For the student's use, one job sheet and two information sheets are provided. Two films, six transparencies, and one training chart are recommended for use. Criterion tests are not provided. These materials are group-instruction oriented. Materials total 84 pages.

COURSE TITLE: Construction Mechanic, Engine Tune-Up II (Diesel)

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
334.2	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
56	January, 1975

COURSE DESCRIPTION: Students completing this course will be able to restore diesel engine performance to the manufacturer's specifications through troubleshooting and analyzing diesel engine fuel systems in their entirety and making minor and major adjustments to those components that directly affect engine performance. Students will be able to use appropriate hand tools, special tools, and shop equipment to test, adjust, and replace fuel system components that fail to meet manufacturer's specifications. Fifty-six hours of instruction include Introduction and Safety Precautions (1 hour) and Engine Tune-Up (55 hours). The instructor's guide provides a time schedule, student objectives, homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. Six military-produced manuals are recommended for instruction. Two films, two sets of slides, and eight transparencies are also recommended for use. Three job sheets and two sets of class notes are provided. The unit is designed for group-oriented instruction. Written materials in this unit total 96 pages.

COURSE TITLE: Construction Mechanic, Equipment Chassis I (Basic)

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
365.1	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
28	January, 1975

COURSE DESCRIPTION: A student completing this course can service equipment chassis components using appropriate hand tools, special tools, shop equipment, and lubrication charts. Specifically, he performs complete lubrication service, repacks wheel bearings, adjusts service brakes, adjusts parking brakes, and services/repairs tires and tubes. The student spends a total of 28 hours in this unit: Introduction and Safety Precautions (1 hour); Service and Repair of Equipment Chassis Components (19 hours); and Service and Repair of Automotive Tires and Tubes (8 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One commercial text and three military-produced texts are suggested for use. Two reference books are also available for use. Three information sheets and two job sheets are available for students. Three films are suggested for use. This unit is group-instruction oriented. Printed materials total 95 pages.

COURSE TITLE: Construction ... ...ic, Equipment Chassis II

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
365.2	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
64	December, 1975

COURSE DESCRIPTION: Students completing this course can service equipment chassis components of the Truck, Cargo, "M" Series, 5-Ton, and 6 x 6. Specifically, each student will troubleshoot, remove and replace defective components of the brake shoe system, steering components, shock absorbers, and spring assemblies using appropriate hand tools, special tools, and shop equipment. The student will spend 64 hours in classroom (35 hours) and practical (29 hours) instruction. The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. Two military-produced texts and three reference books are available for use. One commercially produced book is recommended. Two information sheets are available for the student's use; 5 films and 44 slides are suggested for consideration. This unit is group-instruction oriented. Printed materials total 121 pages.

COURSE TITLE: Construction Mechanic, Equipment Chassis III

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
365.3	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
64	September, 1975

COURSE DESCRIPTION: Students completing this course will be able to service equipment chassis components of the "M" Series, 5-Ton, and 6 x 6 truck. Specifically, the student will be able to remove, disassemble, overhaul, assemble, install, and adjust the steering system components, the air-hydraulic brake cylinder, and associated braking components; he will be able to reline riveted-type shoes and to test and adjust the service and parking brake. Of 64 hours of instruction, the student will study Introduction and Safety Precautions (1 hour); Suspension/Steering System Service and Wheel Alignment (32 hours); and Brake System Service and Repair (31 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. Also available for the student are three technical manuals; one commercially produced book is recommended for instruction. Two reference books are available for students; one commercial publication is suggested. Two information sheets are provided. Seven films and 16 transparency slides are recommended. This unit is primarily group-instruction oriented. Printed materials total 124 pages.

COURSE TITLE: Construction Mechanic, Gasoline Engine Tune-Up (Basic)

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
332.1	620.281	610	Transportation

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
28	November 27, 1974

COURSE DESCRIPTION: Students completing this short course will work in a two-person team to perform engine tune-up of the 6-230 OHC Gasoline Engine using appropriate hand tools, special tools, and test equipment. This instruction involves 28 hours of study. The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), and lists instructional materials, instructional aids, tools, and materials. One military technical manual and one commercially published text are recommended for use. One job sheet and two information sheets are provided for the student's use. Two films and seven transparencies are suggested for use. These materials are group-instruction oriented. Printed materials total 54 pages.

COURSE TITLE: Cook

MILITARY COURSE NO.: 3ABR62230/3AQR62231

DOT NO.: 315.381

DOD NO.: 800

USOE OCCUPATIONAL CLUSTER: Personal Services

DEVELOPED BY: Lowry Technical Training Center, Lowry Air Force Base, Colorado

HOURS OF INSTRUCTION: 295

MILITARY CURRICULUM APPROVAL DATE: April 1, 1975

COURSE DESCRIPTION: This course trains students in the preparation, cooking, and serving of food according to standard recipes, and operating, cleaning, and maintaining kitchen and dining hall equipment. The course is composed of four blocks of instruction totaling 295 hours. Block titles and their respective hours of instruction are: Block I - Food Service Techniques (70 hours); Block II - Role of the Cook (70 hours); Block III - Dining Hall Operations, Phase I (78 hours); and Block IV - Dining Hall Operations, Phase 2 (77 hours). Materials available for instructor use are a plan of instruction and lesson plans for blocks I and II. Student materials consist of 5 study guides/workbooks, 1 handout, and 2 programmed texts. A measurement test and test critique conclude each block of instruction. Audiovisual aids suggested for use by the instructor consist of 41 films/film loops, 13 transparency sets, and 8 slide sets. Printed materials total 358 pages.

COURSE TITLE: Damage Controlman School, Class A

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
CG 780	600.280	780	Manufacturing

DEVELOPED BY: U.S. Coast Guard Training Center, Governors Island, New York

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
407	No date

COURSE DESCRIPTION: After completing this course, students will perform tasks in the use of portable and stationary power tools; carpentry; building maintenance; small boat repair, sheet metal and masonry; pipe fitting; arc welding; oxy-acetylene welding, cutting, brazing; and firefighting. One-hundred-sixty-one (161) hours of theoretical instruction and 246 hours of practical study are designed. A curriculum outline is provided for the teacher's use and it includes a plan of instruction, listings of space, staff, furniture requirements, and references. The listing of suggested references includes 21 commercial publications and one Naval Rate Training Manual, but no audiovisual aids. Complete lesson plans are provided for each of the 15 weeks of instruction. Five student booklets are available. Three handouts are also available. No evaluation devices are available. The total page count of Coast Guard documents is about 750.

COURSE TITLE: Dental Assistant (Phases I and II)

MILITARY COURSE NO.: 3ALR98330 & 370

DOT NO.: 079.378

DOD NO.: 330

USOE OCCUPATIONAL CLUSTER: Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 738

MILITARY CURRICULUM APPROVAL DATE: I - July 10, 1975 II - October 21, 1975

COURSE DESCRIPTION: This is a two-phase course which qualifies a student to undertake many tasks formerly performed only by a dentist. Training of a dental assistant involves placing, carving, and finishing temporary and permanent restorations; making impressions; constructing and placing temporary crowns; cementing crowns, inlays and bridges; irrigating and medicating root canals; bleaching discolored teeth; placing and removing periodontal dressings; placing and removing sutures; desensitizing teeth; performing postoperative treatment; managing syncope and related conditions; performing resusitative procedures; and other reversible treatment procedures under the supervision of a dentist. Phase I of the course includes a total of 708 hours of technical training and covers the following six blocks of instruction: Block I - Dental Sciences I (64 hours); Block II - Dental Science II (56 hours); Block III - Restorative Dentistry I (54 hours); Block IV - Restorative Dentistry II (120 hours); Block V - Restorative Dentistry III (106 hours); and Block VI - Clinical Application (380 hours). Phase II consists of one block of instruction (Clinical Preceptorship) with a total of 30 hours of technical training. Printed materials available for teacher and/or student use include plans of instruction (POI) and accompanying lesson plans, programmed texts, study guides, handouts, check lists, and combined study guides and workbooks. Ten films, 10 slides, 2 slide-tapes, 8 videotapes, and 17 transparencies are suggested audiovisual materials. A Specialty Training Standard (STS) for evaluation of the students proficiency on the subject is also available for this course. Printed materials consist of 1,025 pages.

COURSE TITLE: Dental Laboratory Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR98230	712.381	331	Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
906	July 9, 1975

COURSE DESCRIPTION: Students in this course receive instruction in dental materials and dental anatomy. Instruction also includes complete denture construction, reline and repair; cast removable partial denture construction; construction of gold crowns, inlays, fixed partial dentures; and preventive maintenance of dental laboratory equipment. The course consists of 906 hours of technical training divided into the following five blocks of instruction: Block I - Dental Laboratory Fundamentals (72 hours); Block II - Complete Dentures, Phase I (174 hours); Block III - Complete Dentures, Phase II (232 hours); Block IV - Removable Partial Denture Fabrication and Special Prosthesis (254 hours); and Block V - Inlay, Crowns and Fixed Partial Dentures (174 hours). Available course materials include study guides, programmed texts, workbooks, handouts, combined study guides and workbooks, progress check lists, and a Specialty Training Standard (STS). Audiovisual materials suggested for use are 12 films, 7 transparencies, 36 slide sets, 1 videotape, 2 slide-tapes, and a tape program. A measurement test and test critique are included for each block of instruction in the course. Printed materials total 700 pages.

COURSE TITLE: Dental Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR98130	079.378	330	Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
340	July 11, 1975

COURSE DESCRIPTION: Training in this course includes basic dental sciences, dental materials, dental instruments and equipment, preventive dentistry, dental records, dental radiography, clinical procedures, and dental assisting techniques. The course is composed of 340 hours of technical training covering three blocks of instruction: Block I - Basic Dental Sciences (32 hours); Block II - Clinical Procedures and Administration (190 hours); and Block III - Radiography and Clinical Procedures (118 hours). A study guide, programmed texts, combined study guides and workbooks, handouts, and a plan of instruction (POI) with lesson plans for subject matter covered in each block are included. Audiovisual aids suggested for use in the course include 9 sets of transparencies, 6 films, 7 super 8 film loops, 9 charts, and 6 slides. Each block of instruction concludes with a test measurement and test critique. Printed materials total 1,125 pages.

COURSE TITLE: Dental Technician School, Class A

MILITARY COURSE NO.: CG 330

DOT NO.: 079.378

DOD NO.: 330

USOE OCCUPATIONAL CLUSTER: Health

DEVELOPED BY: U.S. Coast Guard Training Center, Cape May, New Jersey

HOURS OF INSTRUCTION: 118

MILITARY CURRICULUM APPROVAL DATE: April 25, 1975

COURSE DESCRIPTION: In this course, students are trained as chair-side assistants to dental officers and learn techniques of charting, X-ray, operating room assistance, dental prophylaxis, first aid administration, and property and accounting. Study topics include dental anatomy, oral hygiene, general anatomy and physiology, pharmacology, oral pathology, dental prosthesis, and dental maintenance and repair. This course requires 118 hours of instruction. A curriculum outline is available for the teacher's use and includes listings of equipment needs, furniture requirements, training aids and devices, publications for texts, space requirements, and staffing needs. Lesson outlines are also available for teacher use. These outlines include listings of references and training aids. No films are suggested. This course, which is designed for group instruction, contains about 50 pages.

COURSE TITLE: Diet Therapy Specialist

MILITARY COURSE NO.: 3ABR62231-2

DOT NO.: 077.128

DOD NO.: 800

USOE OCCUPATIONAL CLUSTER: Personal Services

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 202

MILITARY CURRICULUM APPROVAL DATE: April 11, 1975

COURSE DESCRIPTION: This course consists of three blocks of instruction with 202 hours of technical training. Students are trained to calculate, modify, prepare and service regular and therapeutic diets; operate and clean medical food service equipment; use certain methods to serve food to ambulatory and bed patients; procure, store, and issue dietetic foods and supplies; and perform accounting procedures and medical food service administration. The subjects covered in this course are: Block I - Medical Service Administration (48 hours); Block II - Nutrition and Diet Therapy (122 hours); Block III - Menu Production and Service (32 hours). Printed materials for the course include a plan of instruction with lesson plans for specific subject matter within each block of instruction, 2 study guides, 22 combined study guides and workbooks, and a Specialty Training Standard (STS) for evaluating student proficiency. Seven sets of transparencies, 8 films, 1 chart, and 2 cassette sets are audiovisuals suggested for use. A measurement test and test critique are included with each block of instruction. Printed materials consist of 925 pages.

COURSE TITLE: Electric Power Line Specialist

MILITARY COURSE NO.: 3ABR54231

DOT NO.: 821.131

DOD NO.: 721

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 447

MILITARY CURRICULUM APPROVAL DATE: September 11, 1974

COURSE DESCRIPTION: This course is divided into six blocks of instruction totaling 447 hours of technical training. Students learn to install, operate, and perform maintenance on electric power distribution systems; substation maintenance; installing poles, accessories and transformers; maintenance on line and service drops; use of hot line equipment; area, street and airfield lighting systems; overhead and underground lines (replacing, splicing, and terminating); and pole top rescue. Emphasis is placed on using technical and manufacturer publications as applicable to electric power line distribution. The six blocks making up this course include: Block I - Orientation, Equipment, and Pole Climbing (58 hours); Block II - Electric Fundamentals, Circuitry and Pole Top Rescue (58 hours); Block III - Substation Maintenance, Distribution Systems and Transformer Connections (72 hours); Block IV - Construction of Overhead Electrical Distribution Systems (116 hours); Block V - Underground Electrical Distribution System Maintenance (78 hours); Block VI - Airfield Lighting Systems and Components (65 hours). Study guides, workbooks, a plan of instruction with accompanying lesson plans, and programmed texts are used in the course. A schematic diagram, 30 sets of transparencies, and 17 films are suggested for use to supplement the texts. Each block of instruction terminates with a measurement test and test critique. Printed materials consist of 1,725 pages.

COURSE TITLE: Electrical Power Production Specialist

MILITARY COURSE NO.: 3ABR54330

DOT NO.: 820.281

DOD NO.: 662

USOE OCCUPATIONAL CLUSTER: Transportation

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 620

MILITARY CURRICULUM APPROVAL DATE: July 2, 1973

COURSE DESCRIPTION: This 620-hour course, divided into eight blocks, trains students in the fundamentals of diesel electric power generation and operation; trouble analysis; and maintenance of generator set equipment including diesel engines and system components, electrical exciters, generators, and switchgear components. Fundamentals and maintenance of gas turbine engines and aircraft arresting barriers are also covered in the course. The blocks of instruction for the course are: Block I - Publication and Engine Fundamentals (30 hours); Block II - Engine Systems and Associated Equipment (60 hours); Block III - Fundamental Engine Repair (104 hours); Block IV - Power Generation and Circuit Characteristics (80 hours); Block V - Generation Equipment, Controls and Wiring Diagrams (118 hours); Block VI - Operation and Maintenance of Mobile Generator Sets (78 hours); Block VII - Generator Set Operation and Maintenance (80 hours); and Block VIII - Generator Set Operation and Aircraft Arresting Barriers (70 hours). A plan of instruction (POI) and lesson plans for subject matter covered within each block of instruction, handouts, study guides, programmed texts, and workbooks are available for instructor and/or student use. Three types of audiovisual materials are also suggested: 821 slides, 23 charts, and 5 transparencies. A measurement test, test critique, and course critique are included at the end of each block of instruction. Printed materials total 2,625 pages.

COURSE TITLE: Electrician

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR54230-1	824.281	721	Construction

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
276	May 1, 1975

COURSE DESCRIPTION: Training in this five-block, 276-hour course covers safety; security; electrical fundamentals; career structure; using tools and test equipment; installing service entrances; installing and performing maintenance on interior wiring systems in nonmetallic sheated cable and conduit; motors and motor installation; firearms; intrusion alarms, and cathodic protection systems. The subject areas addressed in each block and the hours of technical training required are as follows: Block I - Electrical Fundamentals (58 hours); Block II - Nonmetallic Sheathed Cable (58 hours); Block III - Conduit Wiring (72 hours); Block IV - Motors and Controls (78 hours); and Block V - Controls and Alarm Systems (10 hours). Workbooks, study guides, programmed texts, a plan of instruction (POI) and lesson plans make up the course's instructional materials. Twenty-three sets of transparencies and 14 films are suggested audiovisual materials for the course. Each block of instruction includes a measurement test and test critique. Printed materials total 1,225 pages.

COURSE TITLE: Electrician's Course

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
721-51R20	824.281	721	Construction

DEVELOPED BY: U.S. Army Engineer School, Fort Leonard Wood, Missouri

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
177	September, 1974

COURSE DESCRIPTION: Students completing this course are qualified to perform general electrician duties in the installation, repair, and maintenance of electrical lighting systems (600 volts or less) and electrical accessories. Specifically, the 177 hours of instruction includes: History of the Corps--Course Introduction (2 hours), Generator and Light Sets (12 hours), Principles of Electricity (21 hours), Exterior Wiring (34 hours), Interior Wiring (90 hours), Motors (10 hours), Reinforcement (4 hours), Proficiency Testing (4 hours). A Master Training Schedule includes an outline of instruction and outlines of lessons. Six training manuals, one field manual, three student workbooks, one student handout, one information sheet, one test booklet, and one student activity book support the training schedule. Seven films are suggested for use during the course. The printed page count in the unit is roughly 1,400.

COURSE TITLE: Electrician's Mate, Class A

MILITARY COURSE NO.: CG 721

DOT NO.: 824.281

DOD NO.: 721

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: U.S. Coast Guard Training Center, Governors Island, New York

HOURS OF INSTRUCTION: 431

MILITARY CURRICULUM APPROVAL DATE: No date

COURSE DESCRIPTION: After completing this course, students will understand (1) common electrical terminology, (2) important electrical relationships (involving current, voltage, impedance, inductance, etc.), (3) functions of electrical components, and (4) construction and operating principles of batteries, generators, transformers, and controllers. Students will learn how to (1) examine running machinery for cleanliness, vibration, noise and leakages; (2) repair portable electrical appliances; (3) locate and replace blown fuses; (4) clean and lubricate motors and generators; (5) splice and solder electrical connections; (6) test, charge or replace batteries; and (7) detect and locate grounds, open and short circuits in lighting, power, motor, and controller circuits. The course involves 245.5 hours of theoretical study and 185.5 hours of practical experiences. A curriculum outline is available for the teacher and includes a statement of objectives, weekly outlines for learning and learning objectives, and listings of equipment, audiovisual aids, and references. Fifty films which support student learning are suggested and evaluated. Five commercial service publications are suggested for reference documents. In addition, complete lesson plans for group instruction are available for the teacher; however, no evaluation instruments are provided. This unit of instruction contains about 630 pages.

COURSE TITLE: Electronic Principles

MILITARY COURSE NO.: 3AQR30020-1

DOT NO.: 003.081

DOD NO.: 100

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: Keesler Technical Training Center, Keesler Air Force Base, Mississippi

HOURS OF INSTRUCTION: 563

MILITARY CURRICULUM APPROVAL DATE: November 6, 1975

COURSE DESCRIPTION: This course is a Modular Scheduled and Self- or Group-Paced course. Training for the student includes electronic principles, use of basic test equipment, safety practices, circuit analysis soldering, digital techniques, microwave principles, and troubleshooting of basic circuits. The course is composed of ten blocks and 563 hours of instruction as follows: Block I - DC Circuits (53 hours); Block II - AC Circuits (44 hours); Block III - RCL Circuits (93 hours); Block IV - Solid State Principles (73 hours); Block V - Solid State Power Supplies and Amplifiers (70 hours); Block VI - Solid State Wave Generating and Wave Shaping Circuits (68 hours); Block VII - Digital Techniques (39 hours); Block VIII - Principles and Applications of Electron Tubes (35 hours); Block IX - Transmit and Receive Systems (61 hours); and Block X - Microwave Devices and Soldering (27 hours). Each block is concluded with a measurement test and test critique. Instructor materials for this course include three volumes of plans of instruction/lesson plans. Student materials consist of 16 programmed texts, 20 student texts, 78 guidance packages, 3 workbooks, and 8 handouts. Audiovisual aids suggested for use with this course consist of 143 videotapes. Printed materials total 3,900 pages.

COURSE TITLE: Electronics Technician School, Class A

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
CG 100	828.281	100	Manufacturing

DEVELOPED BY: U.S. Coast Guard Training Center, Governors Island, New York

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
391	July 25, 1975

COURSE DESCRIPTION: After completing this course, students understand the basics of electronics maintenance, troubleshooting and repair. Specifically, the student will spend about 391 hours in theoretical and practical experiences: (A) To develop an understanding of (1) the language of electronics; (2) the relationships of current, voltage, and resistance in DC and AC circuits; (3) the relationships of current, voltage, reactance, capacitance and inductance in DC and AC circuits; (4) the functions of resistors, capacitors, inductors, transformers, vacuum and solid state diodes, etc.; (5) the functions of rectifier, regulator, filament, amplifier, oscillator, AM and FM modulation and de-modulation circuits, etc.; (6) circuit symbols for all electronics components; (7) schematic and wiring diagrams; (8) safety and first aid; and (B) To develop the skill necessary to (1) examine operating electronics equipment for evidences of malfunctions; (2) locate and repair malfunctioning components; (3) rescue a person from electrical shock and entanglement. A curriculum outline reviews student objectives, identifys seven modules of instruction, lists furniture, equipment, space and staffing needs, and identifies course references. A second booklet describes publications with which the student should be familiar. An electronics manual describing procurement procedures for the teacher and student is a third available booklet. Available for students are seven sets of instructional materials, one for each module. Some of these materials are group-instruction oriented; others are adaptable to individualized instruction. The materials include many self-tests. Seven slide sets are suggested for use in the course. The total number of pages in this course is about 2,800.

COURSE TITLE: Engineer Equipment Mechanic/Repairman

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
AR 612	620.281	612	Transportation

DEVELOPED BY: U.S. Army Engineer School, Fort Belvoir, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
327	March 1, 1967

COURSE DESCRIPTION: Students completing this course should be able to perform maintenance on engineer construction, earth moving and support type equipment. Specifically, this course involves 327 hours of instruction, including Fundamental Subjects (18 hours), Gasoline Engines (38 hours), Diesel Engines (41 hours), Air Compressors (24 hours), Crawler Tractors (26 hours), Wheeled Tractor (24 hours), Motorized Graders (37 hours), Crane Shovel (46 hours), Engineer Construction Support Equipment (21 hours), Welding (14 hours), Powered Bridging Equipment (22 hours), Equipment Operation (12 hours), and Proficiency Testing (4 hours). In this course, a teacher's manual and 37 student workbooks are available. The teacher's manual provides a plan of instruction, a presentation of student objectives, description of facilities and equipment, and a listing of information sources. Performance tests are provided for each scheduled evaluation. Two technical bulletins and two supply catalogs are suggested to supplement the materials. Thirty-seven students workbooks, primarily 20-40 pages in length, provide learning exercises and/or self-test exercises. While traditional methods of conference, demonstration, and practical exercise are used, these materials are adaptable for self-paced training. The printed materials presently available total 1200+ pages.

COURSE TITLE: Engineering Aid, Class A1

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
A-412-0010	005.081	412	Construction

DEVELOPED BY: U.S. Naval Construction Training Center, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
347	May, 1975

COURSE DESCRIPTION: After completing this course, students will be trained in the skills required of an Advanced Engineering Aid Striker in mathematics, drafting, surveying, and materials testing. Four phases of instruction require 347 total hours. These four phases are Introduction and Mathematics (33 hours); Basic Drafting and Construction Drawing (124 hours); Surveying (139.5 hours); and Materials Testing/Graduation (50.5 hours). Progress evaluation tests are inserted at critical points to determine student's capabilities to perform objectives. The teacher's curriculum outline identifies training objectives, lists 17 course texts (of which 3 are commercially produced), describes many training aids, and suggests equipment/materials/tools. The training aids, all military produced, include 7 films, 1 slide, 95 transparencies, and 18 charts and graphs. In addition, ten commercially produced slides are recommended. Written materials in this unit total 1,300 pages.

COURSE TITLE: Engineering Aid School, Applied Engineering Mathematics I

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
400.1	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
25	June, 1975

COURSE DESCRIPTION: Students completing this unit will have solved mathematical problems encountered by personnel in the engineering aid rating. In 25 hours the student will study Safety (1 hour); Square Roots (3 hours); Mensuration (7 hours); Units of Measurement (7 hours); and Slide Rule (7 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials. Four training manuals are available as texts. No recommended training aids are described. This unit is primarily group-instruction oriented. Printed materials total 39 pages.

COURSE TITLE: Engineering Aid School, Applied Engineering Math II

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
400.2	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
21	May, 1975

COURSE DESCRIPTION: Students completing this short course will be able to solve mathematical problems requiring the use of logarithms, basic algebra, and trigonometry. Twenty-one hours of study will be involved as the students achieve their training objectives. The instructor's guides offers information about the instruction schedule, texts, references, instructional materials, instructional aids, student objectives, criterion tests (if applicable), homework assignments when applicable, and tools. Three military manuals are available as texts; two others are suggested for reference. No audiovisual aids are recommended for use. The unit is group-instruction oriented. Printed materials total 37 pages.

COURSE TITLE: Engineering Aid School, Construction Surveying

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
410.2	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
96	January, 1976

COURSE DESCRIPTION: Students completing this short course will be able to perform engineering surveys related to area and route surveying. The 96 hours of study include such topics as Safety (1 hour); Construction Surveying (3 hours); Horizontal Control (7 hours); Vertical Control (7 hours); Topographic Surveys (10 hours); Road Surveying (9 hours); Road Surveys (6 hours); Horizontal Curves (12 hours); Vertical Curves (7 hours); Grade and Earthwork Computations (7 hours); Engineers Transit Adjustment (5 hours); Level Adjustment (5 hours); Utility Surveying (7 hours); and Building Layout (10 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. Two military manuals are available as texts. Three military manuals are available as references; seven commercial books are recommended for reference use. Other materials which are available include one data sheet, ten information sheets, one job sheet, and four problem sheets. No films are recommended, but two transparencies are suggested. This unit is group-instruction oriented. Printed documents total 249 pages.

COURSE TITLE: Engineering Aid School, Drafting I

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
420.1	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
64	June, 1975

COURSE DESCRIPTION: Students completing this short course will be able to use the tools of a draftsman and perform the techniques and procedures related to basic drafting. The 64 hours of study includes Introduction (1 hour); Lettering (4 hours); Basic Technical Sketching (6 hours); Geometric Construction (8 hours); Orthographic Projection (7 hours); Sections and Dimensions (9 hours); Auxiliary Projection (9 hours); Isometric and Oblique Drawing (9 hours); Reproduction Process (2 hours); and Tracing (9 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One rate training manual is provided for use as a text. A commercially produced text is also recommended. Five military and 12 commercially published books are recommended as references. Seven films, 10 slides, and 18 transparencies are suggested for use. Eight job sheets are also available. This unit is group-instruction oriented. Printed materials total 182 pages.

COURSE TITLE: Engineering Aid School, Material Testing and Quality Control, Soils

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
440.2A	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
68	August, 1975

COURSE DESCRIPTION: Students completing this short course will be able to explore for, identify, classify, and stabilize soils. The 68-hour course includes the topics of Safety (1 hour); Introduction to Soils (2 hours); Soils Exploration (6 hours); Soils Classification (7 hours); Field Identification of Soils (7 hours); Laboratory Classification of Soils (12 hours); Field Evaluation of Soils (11 hours); Laboratory Evaluation of Soils (12 hours); Soils Exploration Report (5 hours); and Soils Stabilization Agents (5 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One military manual is available as a text; four military books and two commercial publications are recommended as references. One film is also suggested for use. Other training aids which are available include five information sheets, three job sheets, one sample problem, one practice problem, and eight worksheets. This unit is group-instruction oriented. Printed materials total 375 pages.

COURSE TITLE: Engineering Aid School, Materials Testing and Quality Control, Bitumens

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
440.2B	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
64	August, 1975

COURSE DESCRIPTION: Students completing this short course will be able to identify and test Bituminous materials and design and control Bituminous paving mixes using the Marshall Method of mix design. The 64 hours of instruction include Introduction to the Class (1 hour); Introduction to Bituminous Materials (2 hours); Field Identification of Bituminous Materials (9 hours); Tests on Bitumens (7 hours); Aggregate Testing and Blending (18 hours); Bituminous Mix Design (18 hours); Bituminous Pavements and Surface Treatments (2 hours); and Plant Control (7 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One military manual is available for use; four military-produced manuals and two commercially printed books are recommended as references. Other training aids which are available include three information sheets, three job sheets, one data sheet, and one sample problem. This course is group-instruction oriented. Printed materials total 161 pages.

COURSE TITLE: Engineering Aid School, Soil and Pavement Analysis (Concrete)

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
440.2C	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
58	September, 1975

COURSE DESCRIPTION: Students completing this short course will be able to design a concrete mix, test mix ingredients, the wet mix, and perform both flexural and comprehensive strength test upon the cured mix. Fifty-eight hours of instruction will be involved in the study of Safety (1 hour); Concrete and Concrete Test Set (4 hours); Aggregate Testing (25 hours); Concrete Mix Design (16 hours); and Concrete Tests (12 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One military book is available as a text. Two commercially published books are suggested as references. One film is suggested for use in the course. Available for students are three worksheets. The course is group-instruction oriented. Written materials total 97 pages.

COURSE TITLE: Engineering Aid School, Soils and Pavement Analysis I

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
440.1	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
57	September, 1975

COURSE DESCRIPTION: Students completing this short course will be able to test soil and concrete construction material by sieve analysis, specific gravity, moisture control, liquid, plastic, shrinkage limits, compaction, field density, aggregate hardness, concrete, slump compression, and flurural strength. The 57 hours of study include units in Safety (1 hour); Sieve Analysis (3 hours); Specific Gravity (5 hours); Shrinkage Factors (7 hours); Liquid and Plastic Limit (4 hours); Moisture Content (3 hours); Compaction (9 hours); Aggregate Hardness Test (14 hours); Concrete Tests (7 hours); and Field Density (4 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. Two military manuals are available as texts. One commercially produced manual is suggested for use. No audiovisual aids are suggested. Other available training aids include one information sheet, eight worksheets, five job sheets, one data sheet and one sample problem. This unit is group-instruction oriented. Printed materials total 145 pages.

COURSE TITLE: Engineering Aid, Surveying

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
410.1	005.081	412	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
64	May, 1975

COURSE DESCRIPTION: Students completing this short course will be able to measure distances by pacing, chaining, and the stadia method; use the surveyor's compass, engineer's transit and level in ordinary survey field work; communicate with other surveyors using accepted surveying terminology and visually by using the Seabee standard hand signals; practice correct surveying safety procedures; repair tapes; test and/or adjust the engineer's level and transit; record and compute field notes; file survey record and data; and properly use survey tables. This study involves 64 hours of instruction, including 46 hours of practical instruction and 18 hours of classroom study. The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One military manual is available for use as a text. Two commercial books are suggested for use in the course. Eleven reference books (including eight suggested commercial publications) are also suggested. Audiovisual aids suggested for students are 11 transparencies but no films. One criterion test, 13 information sheets, 8 job sheets, and 1 problem sheet are available for use. This course is group-instruction oriented. Printed materials total 180 pages.

COURSE TITLE: Entomology Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR56630	041.081	720	Public Services

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
214	May 15, 1975

COURSE DESCRIPTION: Training for this course includes procedures for insect and rodent control, collection and identification of specimens, determination of control measures, identification and use of treatment solutions, and operation and maintenance of insecticide dispersal equipment. The course also includes training in entomology, safety, publications and records. The course is composed of three blocks with 214 hours of instruction. The block titles and hours for each are: Block I - Entomology Fundamentals, Pesticides, and Equipment (66 hours); Block II - Control of Medically Important Pests (78 hours); and Block III - Control of Economically Important Pests (70 hours). Materials for the instructor include a plan of instruction (POI) and lesson plans for each block. Student materials consist of 4 study guides, 3 workbooks, 1 handout, and 1 programmed text. Audiovisual aids suggested for use in this course include 13 films. The printed materials for Entomology Specialist consist of 415 pages.

COURSE TITLE: Environmental Support Specialist

MILITARY COURSE NO.: 3ABR56631

DOT NO.: 168.168

DOD NO.: 720

USOE OCCUPATIONAL CLUSTER: Public Services

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 428

MILITARY CURRICULUM APPROVAL DATE: September 25, 1975

COURSE DESCRIPTION: This course includes training in water and waste processing and water and wastewater analysis; operating principles of water treatment plants; operating procedures for solid waste disposal; and maintenance of water and waste processing system components. The course consists of seven blocks of instruction totaling 428 hours. The block titles and their hours of instruction include: Block I - Introduction to Waste and Waste Processing (30 hours); Block II - Water and Wastewater Analysis (62 hours); Block III - Operating Principles of Water Treatment Plants (80 hours); Block IV - Specialized Water Treatment (68 hours); Block V - Waste Treatment and Disposal (80 hours); Block VI - Maintenance of Water and Waste Processing System Components (78 hours); and Block VII - Collection, Transportation, and Disposal of Solid Waste (30 hours). Each block is concluded with a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans for each block. Student materials consist of 9 study guides, 22 workbooks, and 8 programmed texts. Audiovisual materials suggested for use in this course include 20 films, 3 slide sets, and one schematic diagram. Printed materials for this course total 1,225 pages.

COURSE TITLE: Equipment Operators, Class A

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
A-730-0010	859.883	730	Construction

DEVELOPED BY: Naval Construction Training Center, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
506	April, 1965

COURSE DESCRIPTION: After completing this course, students will have the technical knowledge and skills required to supervise construction, earthmoving, road building, rock crushing, asphalt mixing and paving operations. This course is designed for 506 hours of instruction, including units of study in Leadership (30 hours); Foremanship (12 hours); Mathematics (6 hours); Gradework Fundamentals and Construction Plans (43 hours); Crawler Attachments (66 hours); Scraper Operation (56 hours); Cranes and Attachments (120 hours); Motor Graders (37 hours); and Flexible Paving (136 hours). The teacher's curriculum booklet identifies student objectives, outlines instruction sequence, describes publications and training aids, and indicates equipment needs. Twenty-nine texts (9 commercially produced), 39 references/publications (18 commercially produced), 29 films (13 commercially produced), 107 transparencies, and 49 instructor-prepared aids are suggested for use in the course. While the military-produced audiovisual aids are available, the commercial goods must be obtained from the producer. Some of the materials are designed for individualized instruction; others are group oriented. No scheduled progress examinations are provided. Printed matter in this course totals 900 pages.

COURSE TITLE: Equipment Operators School, Power Earth Auger

MILITARY COURSE NO.:	DOT NO.:	SOC NO.:	USOE OCCUPATIONAL CLUSTER:
532.1	850.883	730	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
28	June, 1975

COURSE DESCRIPTION: Students completing this short course will be able to use the power earth auger to dig a hole a minimum of 12 inches in diameter, with a minimum depth of 7 feet, 4 inches. The task will be performed within a one-hour time frame, observing all safety precautions. This 28 hours of instruction involve study in Safety (1 hour); Power Earth Auger Pre-Operational Service (5 hours); and Power Earth Auger Operations (22 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. Two military-produced manuals are available as texts. Three other military-produced books are recommended as references. No training aids are provided or suggested. The course is group-instruction oriented. Printed materials total 41 pages.

COURSE TITLE: Equipment Operators School, Rock Drill Operation

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
536.1	850.883	730	Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
28	June, 1975

COURSE DESCRIPTION: Students completing this short course will be able to perform operators' maintenance and use proper operating techniques on the 600 CFM Air Compressor, and the crawler-mounted rock drill. The student will be able to drill vertical and inclined holes in consolidated formation. The 28 hours of instruction include study of Safety (1 hour); Operation and Maintenance of 600 CFM Air Compressor (2 hours); Operation and Maintenance of Crawler-Mounted Rock Drill (24 hours); and Drilling Operations (1 hour). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One technical manual is available as a text for this course; one commercial publication is recommended. Seven manuals, two bulletins and two commercially published books are recommended as references. Two transparencies are also recommended for use. The course is group-instruction oriented. Written materials total 61 pages.

COURSE TITLE: Equipment Operators School, Soil Stabilizer Operation

MILITARY COURSE NO.: 526.1

DOT NO.: 850.883

DOD NO.: 730

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION: 28

MILITARY CURRICULUM APPROVAL DATE: June, 1975

COURSE DESCRIPTION: Students completing this short course will be able to operate and maintain the soil stabilizer with system accessories, applying all safety precautions; prepare and maintain the soil stabilizer with system accessories; and obtain a specified moisture content within ± 3%. This course requires 28 hours of instruction: Safety (1 hour); Soil Stabilizer Pre-Operations Procedures (5 hours); and Soil Stabilizer Operations Procedures (22 hours). The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One military manual is available as a text; one commercially produced book is a recommended text. Suggested references include three military books. Two handouts are available for the use of the students. The course is group-instruction oriented. Written materials total 51 pages.

COURSE TITLE: Fire Protection Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR57130-1	373.168	780	Public Services

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
316	July 7, 1975

COURSE DESCRIPTION: This course provides training in firefighting and fire protection techniques for use with aircraft, structural and material fires, and in other emergencies. Specific topics covered include principles and theory of combustion; natural cover fires; extinguishing agents; the use and servicing of portable extinguishers; protective clothing; breathing apparatus; rescue and emergency first aid; firefighting equipment and accessories; preservation of evidence; principles and procedures for structural and material firefighting operations; alarm room procedures; and principles and procedures for aerospace vehicle firefighting operations. The course consists of five blocks of instruction totaling 316 hours. Block titles and their number of hours are: Block I - Fire Protection Objectives and Responsibilities (50 hours); Block II - Breathing Apparatus, Rescue Carries and Emergency First Aid (36 hours); Block III - Structural Firefighting Equipment and Accessories (34 hours); Block IV - Structural Firefighting Tactics (83 hours); and Block V - Aerospace Vehicle Firefighting (Crash Firefighter) (113 hours). A measurement test and test critique conclude each block of instruction. Instructor materials for this course include a plan of instruction (POI) and lesson plans. Student materials consist of 3 programmed texts, 4 workbooks, and 4 study guides. Audiovisual aids suggested for use in this course consist of approximately 29 films and 14 slide sets. The total number of printed pages for this course is 1,010.

COURSE TITLE: Food Service NCO Leadership Course

MILITARY COURSE NO.: MC 800

DOT NO.: 313.131

DOD NO.: 800

USOE OCCUPATIONAL CLUSTER: Personal Services

DEVELOPED BY: Marine Corps Service Support Schools, Marine Corps Base, Camp Lejeune, North Carolina

HOURS OF INSTRUCTION: 321

MILITARY CURRICULUM APPROVAL DATE: November 30, 1972

COURSE DESCRIPTION: In this course, students develop the leadership and technical skills of head food service personnel (Chief Cook, Chief Baker, etc.). Prior to enrolling in this course, the student should have completed the Basic Food Service course, MC 800. This course involves 321 hours of instruction, including studies in Service Support NCO Leadership (20 hours); Leadership and Technical Skills Essential to the Effective Management of a Cook's Watch (60 hours); Leadership and Technical Responsibilities for the Preparation of Bakery Products (77 hours); Leadership and Technical Responsibilities for the Preparation of Meals (97 hours); and Leadership and Technical Skills Essential to the Effective Management of a Field Messing Facility (67 hours). The teacher's program of instruction describes the scope of study in each of the areas listed above and enumerates applicable performance objectives. The available instructional materials include 6 general references, 6 sequential texts, and 2 student workbooks. While some of the above are adaptable to individualized instruction, others are basically reference materials. In addition to these booklets, 12 technical manuals, 2 field manuals, and 18 booklets are suggested for use as additional reference. No audiovisual aids or examinations are recommended for use. Pages in this course total about 1,050.

COURSE TITLE: Food Service Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
800-94B20	310.138	800	Personal Services

DEVELOPED BY: U.S. Army Quartermaster School, Fort Lee, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
280	December, 1975

COURSE DESCRIPTION: After completing this course, students have the knowledge (1) to prepare and serve food, (2) to operate dining facility equipment, and (3) to maintain such equipment. Specifically, students will be studying 280 hours on an Introduction to Cooking (3 hours), Small Quantity Cooking (41 hours), Cake and Pastry Baking (39 hours), Field Kitchen (65 hours), Garrison Dining Facility Operations (126 hours), and Moral Leadership and Responsibility (6 hours). Available in this course are an instructor's plan of instruction, 16 lesson plans/performance guides, 1 reference book, 8 student manuals, 3 student workbooks, and 1 handout. The instructor's booklet includes a listing of student's objectives, an enumeration of lesson outlines, a listing of training aids-equipment, and a collection of certified recipes. Performance tests are provided for each scheduled examination. Recommended is teacher emphasis on demonstration and practice as teaching methods. Some of the materials may be adapted to self-paced instruction. Nine films are suggested as useful audiovisuals in this course. The printed material in this unit total approximately 2,500 pages.

COURSE TITLE: Food Service Staff NCO Leadership Course

MILITARY COURSE NO.: MC 800

DOT NO.: 313.131

DOD NO.: 800

USOE OCCUPATIONAL CLUSTER: Personal Services

DEVELOPED BY: Marine Corps Service Support Schools, Marine Corps Base, Camp Lejeune, North Carolina

HOURS OF INSTRUCTION: 206

MILITARY CURRICULUM APPROVAL DATE: April 29, 1973

COURSE DESCRIPTION: In this course, students develop the leadership and technical skills for managers in a dining facility. Prior to enrolling, the student must have completed the Food Service NCO Leadership Course, MC 800. This course involves 206 hours of instruction, including studies of Service Support SNCO Leadership (21 hours); Leadership and Technical Skills Essential to the Effective Management of a Dining Facility (61 hours); Leadership and Technical Skills Essential to the Effective Management of a Consolidated Food Service Program (49 hours); Leadership and Technical Skills Essential to the Effective Management of a Commissioned Officers' Mess (27 hours); and Leadership and Training Skills Essential to the Effective Management of a Field Messing Facility (48 hours). The teacher's program of instruction describes the scope of study in each of the areas listed above and enumerates applicable performance objectives. The available instructional materials include 7 general references, 3 student workbooks, and 8 sequential texts. While some of the above are adaptable to individualized instruction, others are basically reference materials. In addition, 7 technical manuals, 3 field manuals, and 14 other booklets are suggested for further reference. No audiovisual aids or examinations are recommended for use in this course. Pages in this course total about 1,260.

COURSE TITLE: Fuel and Electrical Systems Repair

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
610-63G20	620.281	610	Transportation

DEVELOPED BY: U.S. Army Ordnance Center and School, Aberdeen Proving Ground, Maryland

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
398	March 1, 1971

COURSE DESCRIPTION: Students completing this course have the working knowledge needed to inspect and diagnose malfunctions in and to perform adjustments and repairs on fuel and electrical system components using diagnostic test equipment and procedures. In 398 hours, students will study Allied Subjects (16 hours); Introduction to Automotive Vehicles and Engines (10 hours); Fuel Systems, Wheeled and Tracked Vehicles (156 hours); Applied Electricity (28 hours); Starting Systems, Wheeled and Tracked Vehicles (20 hours); Ignition System, Battery and Magneto (37 hours); Charging Systems, Wheeled and Tracked Vehicles (112 hours); and Accessory Equipment (19 hours). Materials available include a student guide (booklet) on Fundamentals of Electricity, an instructor guide (booklet) on the same subject, and 58 instructional units. These instructional units reference several publications, including 7 pamphlets, 64 training manuals, 6 Army regulations, 4 student texts, and 5 technical bulletins. These materials, which are primarily designed for group instruction, do not include performance or written examinations. This training unit includes 730 pages.

COURSE TITLE: General Purpose Automatic Transmission Maintenance

MILITARY COURSE NO.: 3AZR47252-3

DOT NO.: 620.281

DOD NO.: 610

USOE OCCUPATIONAL CLUSTER: Transportation

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION: 105

MILITARY CURRICULUM APPROVAL DATE:

COURSE DESCRIPTION: By way of lectures and practical exercises, this course trains students in the repair of general purpose vehicle automatic transmissions, including basic hydraulic principles; planetary gear systems; transmission test instruments; troubleshooting, repair, and testing of specific transmissions; and general maintenance procedures. The course includes three blocks of instruction totaling 105 hours. Block titles and their number of hours are: Block I - Basic Principles, Torque Converters, and C4 Cruise-O-Matic Transmission (53 hours); Block II - Chrysler Torque Flite Transmission (30 hours); and Block III - General Motors Hydramatic Transmission (22 hours). Instructor materials for the course include a plan of instruction (POI) and lesson plans for each block. Student materials consist of three study guides/workbooks. No audiovisual aids were suggested for use in this course. The printed materials total 215 pages.

COURSE TITLE: General Purpose Vehicle Automotive Air Conditioners, I & O

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3AZR47252-5	620.281	610	Transportation

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
20	July 11, 1973

COURSE DESCRIPTION: This course trains students in skills and knowledges necessary to perform as repairmen on air conditioning systems of general purpose vehicles. The scope of training includes principles, inspection, troubleshooting, repair, and reconditioning of components, as well as evacuating and charging of air conditioning systems. Training also includes the use of special testing and servicing equipment for air conditioning systems. Safety is emphasized in all subject areas. The course consists of one block with 20 hours of instruction. Subjects within the block are (1) Orientation, (2) Basic Principles of Refrigeration and Air Conditioning, (3) Construction and Operational Characteristics of Air Conditioning Components, and (4) Inspection, Troubleshooting, Repair and Reconditioning of Components, Evacuating and Charging of Air Conditioning Systems. The course concludes with a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans. Student materials consist of one study guide and one workbook. No audiovisual aids are suggested for use in this course. Printed materials total 194 pages.

COURSE TITLE: General Purpose Vehicle Mechanic

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER
3ABR47232	620.281	610	Transportation

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
554	November 6, 1975

COURSE DESCRIPTION: This course includes training in inspecting, servicing, testing, adjusting, troubleshooting, and repairing automotive general purpose vehicles; gasoline engine tune-up and repair; manual and automatic transmission replacement and adjustment; lubrication system servicing and repair; cooling system servicing; power train repair; front-end and steering system adjustment and repair; brake system adjustment and repair; warning and lighting system repair; hydraulic control repair; air conditioning system servicing; corrosion control and preparation of vehicles for climatic conditions and shipment. Related training in safety, maintenance management, and use of Air Force and commercial publications is also provided. This course consists of seven blocks totaling 554 hours of instruction. The block titles and their individual hours of instruction are: Block I - Publications (30 hours); Block II - Engines (60 hours); Block III - Auto Electrical Units (76 hours); Block IV - Tune-Up and Troubleshooting (80 hours); Block V - Power Trains (78 hours); Block VI - Brakes and Suspension (80 hours); and Block VII - Compression Ignition Engines and Automotive Air Conditioning (50 hours). Instructor materials include a plan of instruction (POI) and lesson plans for each block. Student materials consist of 15 study guides/workbooks/worksheets, 4 handouts, and 34 programmed texts. Audiovisual materials suggested for use in this course include 53 transparencies, 10 films, and 205 slides. The printed materials for this course total 2,433 pages.

COURSE TITLE: Ground Radio Communications Equipment Repairman

MILITARY COURSE NO.: 3ABR30434

DOT NO.: 823.281

DOD NO.: 101

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: Keesler Technical Training Center, Keesler Air Force Base, Mississippi

HOURS OF INSTRUCTION: 542

MILITARY CURRICULUM APPROVAL DATE: July 15, 1974

COURSE DESCRIPTION: This course includes training in operation, installation, inspection, testing, alignment, adjustment, calibration, troubleshooting, organizational maintenance and repair of ground radio communications equipment including transmitters, receivers, transceivers (UHF/VHF/AM, HF/SSB), recorders, consoles, and associated test equipment, special circuits, digital communication system, ground C-E maintenance management, and maintenance data collection forms. The course consists of seven blocks and 542 hours of instruction. Block titles and their respective hours are: Block XI - Introduction to Ground Radio (46 hours); Block XII - HF/SSB Transceivers (80 hours); Block XIII - UHF Communications (70 hours); Block XIV - Communications Console System (64 hours); Block XV - VHF Communications (72 hours); Block XVI - VHF/UHF Air/Ground 50 kHz Equipment (102 hours); and Block XVII - Maintenance Applications (108 hours). An introductory course, Electronics Principles (3AZR30020-1), make up the first 10 blocks of this instructional program. Each block is concluded by a measurement test and test critique. Materials available for the instructor include a course chart, a plan of instruction, and lesson plans for each block of instruction. Student materials consist of 32 student handouts/study guides/workbooks, 7 sets of circuits and diagrams, and 2 programmed texts. Audiovisual aids suggested for use in this course include programmed tapes titled "Exciter." The printed materials total 2,960 pages.

COURSE TITLE: Heat Treatment and Electroplating of Metals

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3AZR53151	610.782	700	Manufacturing

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
186	June 4, 1975

COURSE DESCRIPTION: Training for this course includes identification, classification, and uses of metals; use of related technical publications; operations and procedures for heat treating and hardness testing of metals; correction of heat treating troubles; and metallographic study of grain structures. Electroplating of metals and maintenance of electroplating and heat treating equipment are additional areas of training. Safety is an integral part of training throughout the course. The course is composed of three blocks with 186 hours of instruction. Block subjects and the hours for each are: Block I - Electroplating and Maintenance of Heat Treating Equipment (38 hours); Block II - Heat Treatment of Ferrous Metals (96 hours); and Block III - Heat Treatment of Non-ferrous Metals (52 hours). Instructor materials for this course include a plan of instruction (POI) and lesson plans for each block. Student materials consist of four study guides and one handout. Seven films are suggested as audiovisual aids for use with this course. The course consists of 460 pages of printed materials.

COURSE TITLE: Heating Systems Specialist

MILITARY COURSE NO.: 3ABR54730

DOT NO.: 163.168

DOD NO.: 720

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 340

MILITARY CURRICULUM APPROVAL DATE: November 12, 1974

COURSE DESCRIPTION: This five-block, 340-hour course is designed to train students in the identification, location, function, installation, operational checking, servicing, repair and maintenance of heating equipment plants and systems. The course also includes boiler water testing and treatment. Block titles and hours of instruction for each are: Block I - Fundamentals and Pipefitting (60 hours); Block II - Electrical Fundamentals and Heating Control System (60 hours); Block III - Fuel Burning Equipment, Warm-Air, and Hot-Water Heating Systems (72 hours); Block IV - Central Boiler Plants and Systems (78 hours); and Block V - Water Treatment and Boiler Maintenance. Each block is concluded by a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans for each block of instruction. Student materials consist of 6 study guides, 5 workbooks, and 2 programmed texts. Audiovisual aids suggested for use in this course include 24 transparency sets and 19 films/videotapes. Printed materials total 1,135 pages.

COURSE TITLE: Instructional System Materials Development

MILITARY COURSE NO.: 3AZR75100

DOT NO.: 097.228

DOD NO.: 570

USOE OCCUPATIONAL CLUSTER: Public Services

DEVELOPED BY: Air Force Military Training Center, Lackland Air Force Base, Texas

HOURS OF INSTRUCTION: 158

MILITARY CURRICULUM APPROVAL DATE: October 15, 1975

COURSE DESCRIPTION: This course is designed for self-paced instruction in the development of instructional system materials. Training includes theory of system instruction; analysis of training requirements; development of learning objectives; test construction; content; media and sequence; development of instructional system materials; and validation, editing and implementation of instructional system materials. The course consists of 158 hours and 3 blocks of instruction. Block titles and their respective hours are: Block I - Determination of System Requirements (52 hours); Block II - Programming Methods and Techniques (66 hours); and Block III - Workshop Application (40 hours). Instructor materials for this course include a plan of instruction and lesson plans for each block. Student materials include one criterion checklist, three student handouts, and one study guide/workbook. Audiovisual materials suggested for use with this course include eleven audiovisuals (kind not identified). Printed materials total 693 pages.

COURSE TITLE: Introduction to Metal Bonded Repair

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3AZR53153-3	812.884	700	Manufacturing

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
30	July 2, 1975

COURSE DESCRIPTION: This one-block, 30-hour course trains students in the knowledges and skills necessary to perform as managers and repairmen in adhesive bonding shops. Scope of training includes an introduction to metal bonded structures, principles of repair processes, and inspection and evaluation. Safety is emphasized during the course. Printed materials for instructor use include a plan of instruction (POI) and lesson plans. Student materials consist of a study guide. Suggested audiovisuals for use by the instructor consist of 168 transparencies and 224 slides. The total number of printed pages for this course is 85.

COURSE TITLE: Law Enforcement Specialist

MILITARY COURSE NO.:	DOT NO.:	DOE NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR81230	375.268	830	Public Services

DEVELOPED BY: HQ U.S. Air Force School of Applied Aerospace Sciences (ATC), Lackland Air Force Base, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
164	July 21, 1975

COURSE DESCRIPTION: This four-block, 164 hour course includes training in law enforcement procedures, psychological and physical management of individuals, operations and communications, police investigations, and the use of weapons. Block titles and their respective hours are: Block I - Orientation and Weapons Qualification (34 hours); Block II - Law Enforcement Psychological Management of Individuals (30 hours); Block III - Law Enforcement Procedures and Physical Management (36 hours); and Block IV - Law Enforcement Operations, Communications and Police Investigations (64 hours). Instructor materials include a plan of instruction, and lesson plans for each block of instruction. Student materials include 4 student handouts and 13 programmed texts. Audiovisuals suggested for use in this course include 6 films. Each block of instruction is concluded with a measurement test and test critique. Printed materials total 550 pages.

COURSE TITLE: Machinery Technician -- Class A

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
CG 702	637.281	702	Manufacturing

DEVELOPED BY: U.S. Coast Guard Reserve Training Center, Yorktown, Virginia

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
626	October 29, 1974

COURSE DESCRIPTION: During this course, students receive classroom instruction in Theory, Basic Principles and Functions of Machinery, followed by practical laboratory application of the learned skills. Topics in this unit include handtools; basic hydraulics; basic engines; fuel systems; engine overhaul; clutches, gears, shafting; troubleshooting; casualty control; basic electricity; basic refrigeration; steam cycles; and welding machines. This course has 626 hours of instruction, including both theoretical and applied experiences. The curriculum outline contains weekly instructional objectives and outlines, listings of furniture, training aids, references, space needs, and staff requirements. Forty films are suggested for use in the course. Ten reference publications, commercially or governmentally produced, are suggested for use. Student handbooks provide weekly sets of materials, including readings and self-tests. These materials are primarily designed for group instruction. No evaluation instruments for the course are provided. The printed materials for this course number about 970 pages.

COURSE TITLE: Machinist Course

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
702-44E20	600.280	702	Manufacturing

DEVELOPED BY: U.S. Army Ordnance Center and School, Aberdeen Proving Ground, Maryland

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
434	September 11, 1974

COURSE DESCRIPTION: Students completing this course will have the knowledge and skills (1) to fabricate metal parts and (2) to repair and/or modify machine parts, metal castings, and forgings for armament, automotive, and other equipment and tools. The units of study total 434 hours of instruction including Shop Fundamentals (66 hours); Vertical Metals Cutting Band Saw (40 hours); Lathe Operations (185 hours); Heat Treatment (5 hours); Lathe Attachments (58 hours); and Milling Operations (80 hours). The Program of Instruction provides statements of objectives for students and lists desirable reference materials. These references include 26 technical manuals, 2 field manuals, 4 pamphlets, and 2 common handbooks. Audiovisuals suggested for use include 133 television tapes and 65 sound-on-slide programs for the Basic Machinist course. Many of these materials are easily adapted to an individualized instruction setting. While a series of performance tests is not provided, self-tests are provided with the programmed instruction booklets. Printed materials in this course total 2,530 pages.

COURSE TITLE: Manpower Management Specialist

MILITARY COURSE NO.: 3ALR73331-1

DOT NO.: 012.288

DOD NO.: 500

USOE OCCUPATIONAL CLUSTER: Business & Office

DEVELOPED BY: Keesler Technical Training Center, Keesler Air Force Base, Mississippi

HOURS OF INSTRUCTION: 432

MILITARY CURRICULUM APPROVAL DATE: November 1, 1975

COURSE DESCRIPTION: This 8-block, 432 hour course trains students in manpower management techniques and procedures including: developing and maintaining manpower standards; using industrial engineering techniques, such as work measures, queuing analysis, simulation techniques; workload essentiality analysis; production control; data control techniques; ratios, correlation and regression analysis; and computer programming. Individual block titles and their respective hours are: Block I - Manpower Management Fundamentals (38 hours); Block II - Organization Management (80 hours); Block III - Preliminary Phase Procedures (38 hours); Block IV - Statistics (48 hours); Block V - Work Measurement (96 hours); Block VI - Computation Phase and Standards Application (72 hours); Block VII - Manpower Data Systems (MDS) (30 hours); and Block VIII - Control of Manpower Resources (30 hours). Each block is concluded by a measurement and test critique. Instructor materials include a plan of instruction and lesson plans for each block of instruction. Student materials consist of 8 study guides/workbooks, 9 handouts, and 2 programmed texts. Audiovisual aids suggested for use in this course include 14 transparency sets, 12 films, and 5 television tapes. Printed materials total 850 pages.

COURSE TITLE: Masonry Specialist

MILITARY COURSE NO.: 3ABR55233

DOT NO.: 859.884

DOD NO.: 710

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 294

MILITARY CURRICULUM APPROVAL DATE: August 15, 1974

COURSE DESCRIPTION: Training for this course includes an introduction to masonry and provides instruction on mason's hand, portable power, and shop tools; construction and maintenance of masonry structures using clay brick, concrete block, stone and tile; preparing concrete, mortar and plaster mixes; placing reinforcing steel; and placing and finishing concrete. The course consists of four blocks with 294 hours of instruction. Block titles and the hours of instruction for each are: Block I - Introduction to Masonry (58 hours); Block II - Rigid Concrete Structures (80 hours); Block III - Laying Concrete Block, Stone, and Brick (86 hours); and Block IV - Plaster, Stucco, and Tile (70 hours). Each block is concluded with a measurement test and test critique. Printed materials for use by the instructor include a plan of instruction (POI) and lesson plans for each block. Student materials consist of four study guides, four workbooks, and four programmed texts. Twenty transparency sets are suggested for use by the instructor. The total number of pages for printed materials is 820.

COURSE TITLE: Medical Laboratory Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR90430	079.368	311	Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
653	July 28, 1975

COURSE DESCRIPTION: This course includes training in basic theory and skills for the collection, preparation and analysis of biological fluids and other substances by standard procedures used in medical laboratories to aid the physician in the diagnosis, treatment, and prevention of disease. Emphasized is routine methodology employed in the field of urinalysis, hematology, blood banking, serology, and parasitology. Measurement tests and test critiques are administered at the conclusion of each subject in the blocks of instruction studied. The course consists of three blocks and 653 hours of instruction. Block titles and their respective hours are: Block I - Clinical Chemistry and Urinalysis (222 hours); Block II - Clinical Microbiology (228 hours); and Block III - Hematology, Serology and Blood Banking (203 hours). Instructor materials for this course include a plan of instruction and lesson plans for each block of instruction. Student materials consist of 69 study guides/workbooks; 6 handouts; 1 programmed text; 4 worksheets; and 7 check lists. Audiovisual aids suggested for use in this course include 30 transparency sets, 19 slide sets/programs, 15 films, and 12 videotapes. The total number of printed pages for this course is 1,870.

COURSE TITLE: Medical Service Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USCE OCCUPATIONAL CLUSTER:
3ABR90230	079.368	300	Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
202	July 11, 1975

COURSE DESCRIPTION: This course includes training in the basic theory and skills for providing nursing care and treatment of patients in medical wards, dispensaries, and clinics. Emphasized are nursing technologies, interpersonal relationships, communication and identification of human needs. The course consists of six blocks with 202 hours of instruction. Block titles and their respective hours are: Block I - Nursing Fundamentals I (32 hours); Block II - Nursing Fundamentals II (30 hours); Block III - Specialized Nursing Care I (34 hours); Block IV - Participation in USAF Hospital Patient Care (28 hours); Block V - Specialized Nursing Care II (42 hours); and Block VI - Specialized Nursing Care III (36 hours). Each block is concluded with a measurement test and test critique. Instructor materials consist of a plan of instruction (POI) and lesson plans for each block. Student materials include 37 study guides/workbooks, 7 programmed texts, and 4 handouts. Audiovisual aids suggested for use include 19 films, 2 slide sets, and 19 transparency sets. Printed materials total 1,600 pages in size.

COURSE TITLE: Medical Service Technician

MILITARY COURSE NO.: 3AZR90270-1

DOT NO.: 079.368

DOD NO.: 300

USOE OCCUPATIONAL CLUSTER: Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 510

MILITARY CURRICULUM APPROVAL DATE: July 23, 1975

COURSE DESCRIPTION: Students in this course receive didactic training to give nursing care under the supervision of a registered professional nurse or physician. Topics of instruction include nursing care; family, personal and community health; psychiatric, maternal, and infant care; outpatients; practical nursing management techniques; community health services and intensive care. The course consists of nine blocks and 510 hours of instruction. Block titles and their respective hours are: Block I - Foundations of Nursing (35 hours); Block II - Personal, Family and Community Health (37 hours); Block III - Nursing Care Planning (43 hours); Block IV - Scientific Principles of Nursing (33 hours); Block V - Pharmacology (37 hours); Block VI - Mental Health (41 hours); Block VII - Maternal and Child Health (76 hours); Block VIII - Medical-Surgical Nursing (160 hours); and Block IX - Nursing Management (48 hours). Each block is concluded with a measurement test and test critique. Instructor materials available include a plan of instruction (POI) and lesson plans for each block. Student materials consist of 12 study guides/workbooks. Audiovisual materials suggested for use by the instructor are 40 transparency sets, 2 slide sets, 33 films/filmstrips, and 3 video cassettes/tapes. Printed matter for this course consists of 1,880 pages. A related course is Medical Service Specialist, 3ABR90230.

COURSE TITLE: Metal Body Repair Course

MILITARY COURSE NO.: 704-44B20

DOT NO.: 807.381

DOD NO.: 704

USOE OCCUPATIONAL CLUSTER: Transportation

DEVELOPED BY: U.S. Army Ordnance Center and School, Aberdeen Proving Ground, Maryland

HOURS OF INSTRUCTION: 276

MILITARY CURRICULUM APPROVAL DATE: January 24, 1975

COURSE DESCRIPTION: This course is used by the Army, Air Force, and Marines. After completing the course, students will have knowledge of maintenance associated with metal body repair; vehicle painting; installing automotive body components, repairing radiators and fuel tanks; acetylene welding of metals and cutting safety glass windows and installing glass in window panes. The entire course is designed to require 276 hours of instruction in the following units: Oxyacetylene Welding and Rough Body Work (94 hours); Radiator Repair and Supporting Skills (48 hours); Vehicle Body Repair and Supporting Skills (72 hours); and Glassworking, Fuel Tank Repair and Painting (62 hours). The teacher's program of instruction identifies student objectives and enumerates needed references. Also available for the teacher are 109 coordinated lesson plans/study guides for teacher and student. Two field manuals, six technical manuals, and nine other manuals are available for student use; four manuals are not available. Twenty-one television tapes are also recommended for use. These materials may be adapted for individualized instruction. Scheduled performance tests are available for this course. Printed documents total 775 pages.

COURSE TITLE: Metals Processing Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR53131	812.884	701	Manufacturing

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
550	September 23, 1975

COURSE DESCRIPTION: Training for this course includes fabrication of welded structures and metal weld repairs required in maintenance of Air Force weapons and general ground support equipment. The training includes principles, techniques, and processes of welding, cutting, soldering, brazing, and hard surfacing of various types of metals used in fabrication and repair of equipment; blueprint reading; heat treating, hardness testing, identification, and prevention of corrosion; use of hand and measureing tools; and operation and maintenance of welding, heat treating, and test equipment and power machinery such as grinders, drill presses, power saws, and metal cutting shears. Safety is emphasized throughout the course. The course consists of seven blocks with 550 hours of instruction. Block titles and their respective hours are: Block I - Introduction to Oxyacetylene Welding (60 hours); Block II - Oxyacetylene Welding, Cutting, Soldering, Brazing, and Hard Surfacing (64 hours); Block III - Introduction to Metallic Arc Welding (80 hours); Block IV - Special Metallic Arc and Resistance Welding Applications (78 hours); Block V - Inert Gas Shielded Welding of High Performance Aircraft Metals (120 hours); Block VI - Pipe, Tubing, and Aircraft Exhaust and Jet Engine Hot Section Repair (78 hours); and Block VII - Heat Treating, Hardness Testing, Cleaning, and Electroplating (70 hours). Each block is concluded with a measurement test and test critique. Materials for instructor use include a plan of instruction (POI) and lesson plans for each block of instruction. Seven study guides, two handouts, and one programmed text make up the student's materials. Audiovisual aids suggested for use in this course are 188 slides, 80 of which are commercial; 8 films; 2 videotapes; and 9 transparency sets. Printed matter totals 950 pages.

COURSE TITLE: **The Metric System**

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
901.1	020.088	440	Business & Office

DEVELOPED BY: **Naval Construction Training Center, Gulfport, Mississippi**

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
21	September, 1974

COURSE DESCRIPTION: **Students completing this short course will be able to use metric measuring instruments to determine the metric length, area, volume, mass, and capacity of rectangular, cylindrical, and square objects; to convert from one metric unit of measurement to an equivalent metric unit; and to convert, with the aid of a conversion table, English units of measurement to metric units and metric units to English units. Twenty-one hours of instruction include pretesting, study, and post-testing. The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. No texts are available; one commercially produced manual is recommended for reference. A filmstrip is suggested for use. One instructional sheet and seven criterion tests are provided. This course is group oriented. Printed materials total 112 pages.**

COURSE TITLE: Molder, Class A

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
A-790-0010	609.131	790	Manufacturing

DEVELOPED BY: U.S. Naval Development and Training Center, San Diego, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
414	June, 1975

COURSE DESCRIPTION: After completing this course, students will gain the necessary skills and knowledge to be a molder. To achieve this objective, students would be given maximum practical experience on the equipment, including furnace operation, mold construction, core construction, and alloying of metals. In 414 hours of instruction, the student will study Administration, Blueprints, Coremaking, Furnace and Related Equipment, Bearings, Non-Ferrous Metals and Alloys, Cast Iron, Molding Sands, Bench Molding, and Floor Molding. The plan of instruction provides the teacher with an outline of instruction, an equipment list, and text references. (The outline of instruction includes a master schedule, an enumeration of objectives and a listing of references.) In addition, 118 lesson plans are provided for the teacher's use. For student use, 7 texts, 8 reference manuals, 43 study guides, 34 information sheets, and 5 specification books are available. These materials may be adapted to individualized instruction. Six commercial publications are also recommended for use. Fourteen films and seven transparencies are suggested for this course. Some performance and weekly examinations are provided. Written materials total approximately 650 pages.

COURSE TITLE: Molder School, Class J

MILITARY COURSE NO.: A-790-0011

DOT NO.: 609.131

DOD NO.: 790

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: U.S. Naval Development and Training Center, San Diego, California

HOURS OF INSTRUCTION: 290

MILITARY CURRICULUM APPROVAL DATE: No date

COURSE DESCRIPTION: After completing this course, the student is prepared in the skills of a foundry worker. Students who take this course must have successfully completed Molder 3 level and above training. (Students completing Patternmaker 2 and above may also take this course if they have completed the Molder 3 and 2 correspondence courses.) The 290 hours of instruction involve study in Basic Metallurgy (18 hours); Core and Mold Construction (30 hours); Foundry Melting Equipment (12 hours); Gating and Risering (18 hours); Non-Ferrous Metals and Alloys (119 hours); Ferrous Metals and Alloys (89 hours); and Foundry Management (4 hours). A teacher's curriculum outline presents terminal and enabling objectives for the student. It also lists equipment needs, training aids, and reference materials. The teacher is also provided 31 lesson plans and a master schedule. Thirteen publications are used as texts (6 are military produced), 31 reference publications are recommended (13 military produced), and 9 military films are suggested. Forty-one information sheets and 50 study guides are also available. These materials may be adapted to individualized instruction. Written materials total 430 pages.

COURSE TITLE: Operating Room Specialist

MILITARY COURSE NO.: 3ABR90232

DOT NO.: 079.378

DOD NO.: 301

USOE OCCUPATIONAL CLUSTER: Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 300

MILITARY CURRICULUM APPROVAL DATE: June 12, 1975

COURSE DESCRIPTION: This course trains students to perform operating room duties including the application of aseptic techniques; cleaning and preparation of packs and supplies; sterilization; care and use of instruments and equipment; operative procedures; and care of the patient immediately before, during, and after surgery. The course consists of four blocks and 300 hours of instruction. Block titles and their respective number of hours are Block I - Fundamentals of Operating Room Technology (64 hours); Block II - Scrub and Circulating Duties and Surgical Instruments (82 hours); Block III - Nursing Care and Major Operative Procedures (84 hours); and Block IV - Hospital Experience and Surgical Specialties (70 hours). Each block is concluded by a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans for each block of instruction. Student materials consist of 15 study guides/workbooks, 3 programmed texts, and 1 handout. Audiovisual aids suggested for use by the instructor include 17 films, 10 videotape cassettes/slide sets, and 37 transparency sets. Printed materials total 1,055 pages.

COURSE TITLE: Optometry Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR91235	079.108	300	Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
332	June 25, 1975

COURSE DESCRIPTION: This course trains students in the subjects of basic ocular anatomy and physiology, basic optics, use and maintenance of optometric testing equipment, visual therapy, medical ethics, medical technology and techniques, asepsis, ocular first aid and emergency treatment. The course consists of five blocks and 332 hours of instruction. Block titles and their respective hours of instruction are: Block I - Introduction and Basic Optics (44 hours); Block II - The Visual System (122 hours); Block III - Assisting the Optometrist (31 hours); Block IV - Spectacle Ordering and Dispensing Procedures (88 hours); and Block V - Management and Practicum (47 hours). Each block is concluded with a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans for each block of instruction. Student materials consist of 7 study guides/workbooks, 6 checklists, 2 handouts, and 2 worksheets. Audiovisual aids suggested for use by the instructor include 4 films and 18 slide sets/videotapes. Printed materials total 635 pages.

COURSE TITLE: Patternmaker "A"

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
A-790-0012	600.280	790	Manufacturing

DEVELOPED BY: U.S. Naval Development and Training Center, San Diego, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
577	No date

COURSE DESCRIPTION: After completing this course, students will be trained as patternmakers. The course length is 577 contact hours, including instruction in Orientation to Patternmaking (120 hours); Parted Pattern Techniques (87.5 hours); Flanged Fittings, Straight and Curved (116 hours); Intermediate Pattern Construction Techniques (145 hours); and Advanced Pattern Construction Techniques (108 hours). The teacher's curriculum outline includes statements of terminal and enabling objectives, as well as listings of training aids, equipment requirements, and support documents. In addition, the teacher has 100 lesson plans and 44 information sheets available. Eight military films are suggested for use. Provided for the student are 34 study guides. Many of these materials may be adaptable to individualized instruction. Written materials total 900 pages.

COURSE TITLE: Pharmacy Specialist

MILITARY COURSE NO.: 3ABR90530

DOT NO.: 074.181

DOD NO.: 312

USOE OCCUPATIONAL CLUSTER: Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 460

MILITARY CURRICULUM APPROVAL DATE: July 18, 1975

COURSE DESCRIPTION: This course trains students in the basic technical phases of pharmacy and the minimum essential knowledge and skills necessary for compounding and dispensing of drugs, the economical operation of a pharmacy, and the proper use of drugs, chemicals, and biological products. The course consists of three blocks and 460 hours of instruction. Block titles and their respective hours of instruction are: Block I - Fundamentals of Pharmacy (122 hours); Block II - Pharmacology (182 hours); and Block III - Pharmaceutical Preparations and Their Manufacture (156 hours). Each block is concluded by a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans for each block of instruction. Student materials consist of 11 study guides/workbooks, 24 handouts, 3 programmed texts, and 3 checklists/logs. Audiovisual aids suggested for use by the instructor include 4 slide sets, 8 transparency sets, and 9 films. Printed materials total 1,070 pages.

COURSE TITLE: Physical Therapy Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR91330	079.378	303	Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
314	July 22, 1975

COURSE DESCRIPTION: This course trains the student in the theory and practical application of physical therapy procedures and modalities needed to assist the physical therapist in administering physical therapy care. Major areas of study are: (1) psychology of the diseased and injured; (2) physiology; (3) anatomy; (4) medical conditions in physical therapy; (5) administration, communication, and ethics; and (6) physical therapy procedures and modalities. The course consists of 314 hours of instruction in two blocks. Block titles and their respective number of hours are: Block I - Basic Sciences (135 hours) and Block II - Procedures and Modalities (179 hours). Each block is concluded with a measurement test and test critique. Instructor materials for this course include a plan of instruction (POI) and lesson plans for each block of instruction. Student materials consist of 10 study guides/workbooks. Audiovisual aids suggested for use with this course are 29 films, 3 transparency sets, and 4 mini-texts. Printed materials for this course total 488 pages.

COURSE TITLE: Physician Assistant (Phase I)

MILITARY COURSE NO.: 3ALR91730

DOT NO.: 070.108

DOD NO.: 300

USOE OCCUPATIONAL CLUSTER: Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 1,693

MILITARY CURRICULUM APPROVAL DATE: October 15, 1975

COURSE DESCRIPTION: This course prepares students to assist the physician in examining; evaluating, diagnosing and treating diseases and injuries; performing physical examination, taking patient histories, and ordering appropriate laboratory studies; performing a broad spectrum of designated diagnostic and therapeutic procedures; interpreting medical findings and referring to supervising physician; using effective written and oral communication with patients and medical personnel. The course consists of 25 blocks and 1,693 hours of instruction. Block titles and their respective hours are: Block I - Course Introduction (38 hours); Block II - Introduction to PA Career Field (9 hours); Block III - Medical Terminology (22 hours); Block IV - History and Ethics of Medicine (11 hours); Block V - Epidemiology and Public Health (45 hours); Block VI - Anatomy and Physiology I (167 hours); Block VII - Psychology (46 hours); Block VIII - Basic Clinical Laboratory (88 hours); Block IX - Microbiology (79 hours); Block X - General Chemistry (86 hours); Block XI - Physical Examination (42 hours); Block XII - Clinical Bioghemistry (145 hours); Block XIII - Anatomy and Physiology II (157 hours); Block XIV - Clinical Medicine I (152 hours); Block XV - Clinical Psychiatry (42 hours); Block XVI - Patient Evaluation I (93 hours); Block XVII - Introduction to EKG (26 hours); Block XVIII - Physician Assistant in the Air Force (8 hours); Block XIX - Introduction to Radiology (37 hours); Block XX - Pharmacology (110 hours); Block XXI - Clinical Medicine II (213 hours); Block XXII - Surgical Principles and Procedures (49 hours); Block XXIII - Patient Evaluation II (79 hours); Block XXIV - Cardiopulmonary and Applied Clinical Medicine (30 hours); and Block XXV - Pediatrics (44 hours). Each block is concluded by a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans for each block of instruction. Student materials consist of 86 handouts, 49 study guides/workbooks, 3 manuals, and 16 programmed texts. Audio-visual aids suggested for use with this course include 107 films, 22 videotapes/ cassettes, and 3 x-ray sets. Printed materials for this course total 3,265 pages.

COURSE TITLE: Plumbing Specialist

MILITARY COURSE NO.: 3ABR55235

DOT NO.: 862.287

DOD NO.: 720

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 322

MILITARY CURRICULUM APPROVAL DATE: July 2, 1975

COURSE DESCRIPTION: Training for this course includes instruction for plumbing system operating principles and configurations; construction, maintenance and repair of main and building water supply; vent and waste systems; installation and maintenance of fixtures, faucets and plumbing system valves; and utilization and maintenance of tools, equipment, and supplies. The course consists of five blocks of instruction totaling 322 hours. The block subjects and their hours of instruction are: Block I - Introduction to Plumbing (54 hours); Block II - Building Waste Systems (72 hours); Block III - Exterior and Interior Water (62 hours) Block IV - Fixtures and Appurtenances (80 hours); and Block V - Utility Equipment (54 hours). Each block is concluded by a measurement test and test critique. Materials for the instructor include a plan of instruction (POI) and lesson plans for each block. Student materials consist of five study guides, five workbooks, and two programmed texts. Audiovisual aids suggested for use include 8 films and 34 slide sets. Printed materials consist of 1,006 pages.

COURSE TITLE: Power Steering and Power Brakes, General Purpose Vehicle

MILITARY COURSE NO.: 3AZR47350-4

DOT NO.: 620.281

DOD NO.: 610

USOE OCCUPATIONAL CLUSTER: Transportation

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION: 30

MILITARY CURRICULUM APPROVAL DATE: September 4, 1974

COURSE DESCRIPTION: This course trains students in the skills and knowledges necessary to perform as repairmen on power steering and power brake systems of general purpose vehicles. The scope of training includes principles, inspection, repair, operational tests, troubleshooting, and adjustments of power steering and power brake systems. Safety is applied and emphasized in all subject areas. The course consists of one block with 30 hours of technical training and concludes with a measurement test and test critique. Subjects in this course include (1) Orientation, (2) Hydraulic Principles and Principles of Operation of Drum and Disc Type Brakes, (3) Servicing Hydraulic Brake Systems, (4) Principles of Operation of Vacuum Booster Brake System, Troubleshooting and Servicing Boosters, (5) Principles of Operation and Servicing Power Steering Components, and (6) Troubleshooting and Maintenance of Power Steering Components. Instructor materials include a plan of instruction (POI) and lesson plans. Student materials consist of one study guide. Audiovisual materials suggested for use by the instructor include 34 commercial slides. Printed materials consist of 119 pages.

COURSE TITLE: Psychiatric Ward Specialist

MILITARY COURSE NO.: 3ABR91431-2

DOT NO.: 079.378

DOD NO.: 302

USOE OCCUPATIONAL CLUSTER: Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 196

MILITARY CURRICULUM APPROVAL DATE: July 25, 1975

COURSE DESCRIPTION: This 196-hour, three-block course is designed to train students to perform as assistants to professional personnel in the care and treatment of patients in mental health units and includes basic concepts of human behavior, the aspects of atypical adjustive reactions and the importance of behavior observations, and the need for nursing intervention. Clinical experience follows didactic training. The individual units and their hours of instruction are Block I - Basic Concepts of Mental Health and Mental Illness (24 hours); Block II - Care and Treatment of the Mentally Ill (37 hours); and Block III - Practical Application of Principles of Mental Health Nursing (135 hours). Each block is concluded with a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans for each block of instruction. Student materials include 28 study guides/workbooks, 1 handout, and 5 programmed texts. Audiovisual aids suggested for use in the course are 12 films, 7 sound on slide programs, 5 videotapes, and 1 audio tape. Printed matter for this course is 567 pages. A related course is Medical Service Specialist, 3ABR90230.

COURSE TITLE: Radiology Specialist

MILITARY COURSE NO.: 3ABR90330

DOT NO.: 079.368

DOD NO.: 313

USOE OCCUPATIONAL CLUSTER: Health

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 510

MILITARY CURRICULUM APPROVAL DATE: May 7, 1975

COURSE DESCRIPTION: This course is designed to train students in radiographic physics, anatomy, physiology, radiographic techniques, film processing, special techniques, maintenance of film files and radiographic positioning which includes practical application using energized X-Ray Equipment and whole body radiographic phantoms. It also includes an introduction to special procedures and associated equipment. Radiation protection is taught and enforced throughout the course. The course consists of 510 hours of instruction in nine blocks, the last block being self-paced. The block subjects and the number of instruction hours are: Block I - Radiographic Fundamentals I (32 hours); Block II - Osteology and Radiographic Considerations of the Upper Extremity (36 hours); Block III - Radiographic Fundamentals II (38 hours); Block IV - Radiographic Technique (40 hours); Block V - Osteology and Radiographic Considerations of the Lower Extremity and Pelvic Girdle (40 hours); Block VI - Osteology and Radiographic Consideration of the Thorex and Vertebr[illegible]olumn (38 hours); Block VII - Osteology and Radiographic Considerations of the Skull and Facial Bones (40 hours); Block VIII - Anatomy and Physiology (41 hours); and Block IX - Special Techniques, Equipment and Procedures (205 hours). Each block is concluded by a measurement test and test critique. Instructor materials include a plan of instruction (POI), lesson plans, and instructor guides. Student materials consist of 53 study guides/ workbooks/programmed texts and 3 handouts. Audiovisual aids suggested for use in this course are 14 films, 68 slide se[illegible]s, and 21 tape cassettes. Printed materials for this course consist of 4,[illegible] pages.

COURSE TITLE: Refrigeration and Air Conditioning Equipment

MILITARY COURSE NO.: 3AZR54550-2

DOT NO.: 637.281

DOD NO.: 720

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 193

MILITARY CURRICULUM APPROVAL DATE: April 15, 1975

COURSE DESCRIPTION: Training in this course includes refrigeration theory, refrigeration and air conditioning systems operating principles, psychrometrics, water treatment, electrical circuitry and test equipment, and the operation, maintenance, and troubleshooting of refrigeration and air conditioning systems and controls. The course is divided into 3 blocks with a total of 193 hours of instruction. Block titles and hours for each are Block I - Refrigeration and Air Conditioning Systems (78 hours); Block II - Major Components, Domestic and Commercial Refrigeration Systems (46 hours); and Block III - Air Conditioning Systems (69 hours). Materials for instructor use include a plan of instruction (POI) and lesson plans. Student materials consist of three study guides and three workbooks. Audiovisual materials suggested for use in this course are 9 films, 11 prenarrated slide sets, and 8 transparency sets. Printed materials for this course consist of 609 pages.

COURSE TITLE: Refrigeration and Air Conditioning Specialist

MILITARY COURSE NO.: 3ABR54530

DOT NO.: 637.281

DOD NO.: 720

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 620

MILITARY CURRICULUM APPROVAL DATE: September 25, 1974

COURSE DESCRIPTION: This nine-block, 620-hour course has been developed to train students in the identification, location, function, installation, operational checking, servicing, repair and maintenance of refrigeration and air conditioning systems. The course also includes water analysis and conditioning. Blocks and the hours of instruction for each are: Block I - Fundamentals (30 hours); Block II - Electricity (60 hours); Block III - Basic Refrigeration (64 hours); Block IV - Refrigeration Controls and Accessories (80 hours); Block V - Domestic and Commercial Refrigeration (78 hours); Block VI - Special Refrigeration Systems, Cooling Towers, Water Pumps, Water Conditioning, and Absorption Air Conditioning System (80 hours); Block VII - Air Conditioning Controls (78 hours); Block VIII - Air Conditioning (120 hours); and Block IX - Evaporative Cooling Systems, Communication Security, Publications, Civil Engineering Maintenance Management (30 hours). Each block concludes with a measurement test and test critique. Instructor materials include a plan of instruction (POI) and lesson plans for each block. Student materials consist of 15 study guides, 15 workbooks, 2 handouts, and 5 programmed texts. Audiovisual aids suggested for use in the course include 15 films, 29 transparency sets and 29 chart sets. This course has 1,700 pages of printed matter. A related course is Refrigeration and Air Conditioning Equipment, 3AZR54550.

COURSE TITLE: Site Development Specialist

MILITARY COURSE NO.: 3ABR55330

DOT NO.: 859.131

DOD NO.: 412

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION: 620

MILITARY CURRICULUM APPROVAL DATE: January 6, 1975

COURSE DESCRIPTION: Training in this course includes mathematics applied to surveying, fundamentals of surveying, construction surveys, construction layout and earthwork, soils engineering, pavements and concrete construction, basic drafting, construction drafting and fundamentals of estimating. This course covers 620 hours of instruction in ten blocks, listed as follows: Block I - Site Development Specialist Responsibilities and Mathematics (60 hours); Block II - Fundamentals of Surveying (60 hours); Block III - Construction Surveys (74 hours); Block IV - Construction Layout and Earthwork (80 hours); Block V - Soils Engineering (78 hours); Block VI - Pavements and Concrete Construction (80 hours); Block VII - Basic Drafting (78 hours); Block VIII - Construction Drafting (80 hours); Block IX - Drafting (30 hours); and Block X Concept - Drafting (30 hours of instruction completed during Blocks III through VIII concentrate on convention and symbols, freehand lettering, basic civil engineering organization and functions, master planning, basic blueprint reading, and communication security). A plan of instruction and lesson plans for each block are available instructor's materials. Student materials include 15 study guides, 21 workbooks, 4 student texts, 3 programmed texts, and 2 work sheets (computation sheet and topographical mapping). Audiovisual materials suggested for use include one slide series, 10 films, and 6 charts. Each block of instruction concludes with a measurement test and test critique. Printed materials used in this course consist of 1,604 pages.

COURSE TITLE: Social Problems of Police Administration

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3AZR81271	375.168	830	Public Services

DEVELOPED BY: HQ U.S. Air Force School of Applied Aerospace Sciences (ATC), Lackland Air Force Base, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
38	October 22, 1975

COURSE DESCRIPTION: This course provides training in the psychological aspects of a confrontation, disturbance and disorder. Subjects of study include social science concepts and theory, crowds and mobs, discrimination, prejudice, minority groups, after-action reports and student reports. The course consists of one block of 38 hours of instruction. Materials available for the instructor include a plan of instruction and lesson plans. Student materials include one student guide/workbook, two handouts, and one supplementary text. Audiovisual materials suggested for use with this course include six films and four sets of transparencies. Printed materials total 200 pages.

COURSE TITLE: Steelworker, Gas Welding and Cutting

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
615.2	680.281	711	Manufacturing

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
56	No date

COURSE DESCRIPTION: After completing this short course, students are trained in reading simple blueprints from shopwork (14 hours); identify welding consumables; define and know purposes for annealing, hardening, and tempering (5 hours); use correct technique in preparation of welding pipe in vertical fixed position and horizontal fixed position (15 hours); perform general brazing and soldering (11 hours); and do silver brazing (11 hours). This course involves a total of 56 hours of study. The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. Three military manuals are available for use as texts; one other book is suggested for use also. Five military manuals are suggested for use as references. Four films and four example models are recommended for use in the course. Two information sheets are available for the student. This course is primarily group oriented. Printed materials total 152 pages.

COURSE TITLE: Steelworker School, Arc Welding, Pipe

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
612.1	600.280	711	Manufacturing

DEVELOPED BY: Special Construction Battalion Training, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
84	March, 1975

COURSE DESCRIPTION: Students completing this short course will be able to weld 5-inch mild steel schedule 80 pipe, with backing rings, in the vertical and horizontal fixed positions while using Mil E 7018 5/32" diameter electrodes. Eighty-four hours of instruction will be involved in this study. The instructor's guide provides a time schedule, student objectives, criterion tests (if applicable), homework assignments (when applicable), and lists instructional materials, instructional aids, tools, and materials. One military manual is available for use as a text; three other books are recommended as references in the course. Three handouts are provided in the instructor's guide. The course is group-instruction oriented. Written materials total 36 pages.

COURSE TITLE: Steelworker School, Class A

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
A-711-0015	600.280	711	Manufacturing

DEVELOPED BY: U.S. Naval Construction Training Center, Port Hueneme, California

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
254	May, 1975

COURSE DESCRIPTION: Students completing this course learn basic skills in mathematics, blueprint reading, sheetmetal layout and fabrication, placing and tying reinforcing steel, and Oxy-Mapp cutting, welding, brazing and arc welding of steel. The 254 hours of instruction will include study in Sheetmetal (97.5 hours); Concrete Reinforcing Steels (19.5 hours); Erection (3.5 hours); Gas Cutting, Welding and Brazing (64 hours); and Electric Arc Welding (69.5 hours). Two teacher's curriculum outlines (1) provide an instructional outline which enumerates student objectives, (2) describe texts and references, (3) identify tools, equipment and materials, and (4) suggest training aids and devices. Two texts, 24 reference books (10 of which are commercially produced), 12 military films, 3 commercial films, and 9 transparencies are recommended for teacher use. Twenty information sheets, 14 practical test sheets, 2 lab sheets, a programmed instruction booklet, and 19 models are also recommended to help the student. Some of these materials may be adaptable to individualized instruction. Scheduled progress examinations are not provided. Written materials total 265 pages.

COURSE TITLE: Still Photographic Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER
3ABR23132	143.062	400	Communications & Media

DEVELOPED BY: Lowry Air Force Base, Colorado

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
734	November 7, 1975

COURSE DESCRIPTION: This course trains students in theory and application of chemistry, optics, sensitized material, light quality, and exposure techniques for still photography. Training includes operation of manual and continuous processing; printing and finishing of black and white, and color sensitized materials; camera operation for laboratory reproduction; photojournalism, portraits, movie clips, and documentation; laboratory administration; and quality control procedures, sensitometric and densitometric computations, environment and recovery procedures. Normal color vision is required. The course contains 15 blocks of instruction totaling 734 hours. Block titles and their respective hours are: Block I - Fundamentals of Photography I (70 hours); Block II - Fundamentals of Photography II (80 hours); Block III - Fundamentals of Photography III (65 hours); Block IV - Quality Control and Machine Processors (56 hours); Block V - General Photographic Assignments (60 hours); Block VI - Informal and Formal Portraits (64 hours); Block VII - Photographic Copy and Reproduction (64 hours); Block VIII - Small and Medium Format Camera System (48 hours); Block IX - Color Photography (76 hours); Block X - Color Printing Techniques (72 hours); Block XI - Journalistic Techniques and Photo Layouts (76 hours); Block XII - Motion Picture Processing and Editing (40 hours); Block XIII - Mobile Laboratories (96 hours); Block XIV - Tactical Air and Ground Photography (64 hours); and Block XV - Audio Visual Presentations (40 hours). Materials available for the instructor include a course chart. Student materials consist of 11 study guides and workbooks. No audiovisual aids are suggested for use with this course. Total printed materials consist of 857 pages.

COURSE TITLE: Still Photojournalism

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3AZR23152	143.062	400	Communications & Media

DEVELOPED BY: Lowry Technical Training Center, Lowry Air Force Base, Colorado

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
160	July 1, 1974

COURSE DESCRIPTION: This course provides training in the photojournalistic process with emphasis on the photojournalistic sequence, information acquisition techniques, elements of style in writing, communications and human relations, and legal and ethical aspects. Training in camera and processing systems with instruction on the use of various types of cameras to do specific photojournalist jobs with exercises on each type of camera to develop the photojournalist expertise; job-oriented workshop emphasizing the picture story layout, personality feature, group, spot news, publicity, editorial, sport-in-action photography, and final layout process is provided. The course consists of three blocks with 160 hours of instruction. Block titles and their respective hours are: Block I - The Journalistic Process (40 hours); Block II - Camera and Processing Systems (48 hours); and Block III - Job-Oriented Workshop (72 hours). Each block is concluded by a critique of the student's work. Materials available for the instructor to use include a plan of instruction and a course chart. Materials for student use consist of four study guides/workbooks. Audiovisual aids suggested for use with this course include one film and one television tape. Total pages of printed materials are 193.

COURSE TITLE: Traffic Management and Accident Investigation

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3AZR81271-1	372.868	830	Public Services

DEVELOPED BY: HQ U.S. Air Force School of Applied Aerospace Sciences (ATC), Lackland Air Force Base, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
141	March 18, 1976

COURSE DESCRIPTION: This course provides training in the development of installation vehicle codes and traffic flow plans, analysis of traffic trends and accident causes, planning/conducting traffic accident investigations and application of procedures in preparing and maintaining traffic reports and records. The course consists of one block with 141 hours of instruction. Block subjects include: (1) Orientation (2 hours); (2) Traffic Law Enforcement (58 hours); (3) Traffic Accident Investigation (63 hours); and (4) Traffic Control (18 hours). The course is concluded with a measurement test and test critique. Materials available for instructor use include a plan of instruction and lesson plans. Student materials consist of one student text, 3 student handouts, and one study guide/workbook. Audiovisuals suggested for use in this course include 5 cassette/slide sets, 5 transparency sets, and 13 films. Printed materials total 200 pages.

COURSE TITLE: Utilitiesman, Class A1

MILITARY COURSE NO.: A-720-0012

DOT NO.: 899.131

DOD NO.: 720

USOE OCCUPATIONAL CLUSTER: Construction

DEVELOPED BY: U.S. Naval Construction Training Center, Port Hueneme, California

HOURS OF INSTRUCTION: 324

MILITARY CURRICULUM APPROVAL DATE: May, 1975

COURSE DESCRIPTION: After completing this course, students have the technical skills and knowledge to be apprentice Utilitiesmen. The 324 hours of instruction include study in Plumbing (173 hours); Pumps (21 hours); Boilers (60 hours); and Refrigeration (70 hours). The curriculum outline for the teacher outlines training objectives and describes texts, references, equipment, training aids, and a master schedule. Available for the students are 2 texts and 47 references. These references include 17 manuals (technical, rating, and others) and 7 fact sheets. Thirty-five commercial publications, 16 military films, 2 commercial films, several commercially prepared slides, and 39 military-produced audiovisual aids are suggested for use. In addition to these, 33 instructor guides and 43 information/job sheets are provided. This course utilizes both group-oriented and self-study text materials. Evaluation for the course is criterion referenced; a series of performance tests for each scheduled evaluation is provided at the end of each unit. Written materials in this course total 1,050 pages.

COURSE TITLE: Vehicle Diagnostic Test Equipment

MILITARY COURSE NO.: 3AZR47252-1

DOT NO.: 620.281

DOD NO.: 610

USOE OCCUPATIONAL CLUSTER: Transportation

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION: 227

MILITARY CURRICULUM APPROVAL DATE: November 3, 1975

COURSE DESCRIPTION: This course trains students in the use of automotive test equipment in order to inspect, service, test, adjust and troubleshoot all types of automotive vehicles. Instruction is also included for both portable and stationary front-end alignment equipment. The course is composed of three blocks of instruction totaling 227 hours. Units and hours of instruction for each are: Block I - Vehicle Starting and Charging Systems and Use of Test Equipment (80 hours); Block II - Engine Systems, Emission Control Systems, and Use of Test Equipment (94 hours); and Block III - Steering Systems, Wheel Alignment, and Use of Test Equipment (53 hours). Instructor materials include a plan of instruction (POI) for the entire course and lesson plans for each block of instruction. Student materials include 5 handouts, 3 worksheets, 4 study guides, and 4 workbooks. Audiovisual materials suggested for use in the course are 5 films, 2 videotapes, 2 sets of transparencies, and 2 slide sets. Each block of instruction concludes with a measurement test and test critique. This course has 417 pages of printed materials.

COURSE TITLE: Veterinary Specialist

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
3ABR90830	073.108	321	Public Services

DEVELOPED BY: Sheppard Air Force Base Technical Training Center, Texas

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
410	July 11, 1975

COURSE DESCRIPTION: This course is composed of eleven blocks of instruction with a total of 410 hours of technical training. The course includes training in food inspection, laboratory procedures, subprofessional duties concerning veterinary sciences, administrative forms and procedures, sanitary surveillance of food processing, storage, and service facilities, control and epidemiology of zoonotic diseases, and veterinary aspects of disaster medicine. Block titles and the number of hours for each are: Block I - Veterinary Administration (34 hours); Block II - Technical Inspection Procedures (32 hours); Block III - Microbiology (26 hours); Block IV - Medical Aspects of Food Handling (42 hours); Block V - Food Laboratory (30 hours); Block VI - Meat and Meat Products (66 hours); Block VII - Poultry and Egg Inspection (43 hours); Block VIII - Dairy and Dairy Products (34 hours); Block IX - Miscellaneous Foods (30 hours); Block X - Food Technology and Military Operational Rations (28 hours); and Block XI - Animal Service and Zoonoses Control Activities (44 hours). Each unit includes a measurement test and test critique. Instructor materials available are lesson plans for each block of instruction and a plan of instruction (POI). Suggested audiovisual aids for instructor use are 43 films, 9 transparency sets, 10 slide sets, and 2 audiovisual sound/slide programs. Student materials include 12 student texts, 5 handouts, 15 workbooks/study guides, and 2 programmed texts. All student materials are related to the block topics previously mentioned. This course has 1,210 pages of printed materials.

COURSE TITLE: Welding Course

MILITARY COURSE NO.: 701-44C20

DOT NO.: 812.884

DOD NO.: 701

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: U.S. Army Ordnance Center and School, Aberdeen Proving Ground, Maryland

HOURS OF INSTRUCTION: 336

MILITARY CURRICULUM APPROVAL DATE: January 28, 1975

COURSE DESCRIPTION: After completing this course, students will have knowledge and skills necessary to weld ferrous and nonferrous metals and to perform soldering, brazing, and cutting operations in the repair, modification or maintaining of military vehicles, equipment or structures. The course involves 336 hours of study, including 149 hours of oxyacetylene welding, 158 hours of electric arc welding, and 29 hours of metal inert gas welding. The teacher's program of instruction includes an outline of instruction, which enumerates student objectives and appropriate references. In addition, 59 lesson plans and 21 performance tests are provided for the teacher's use. Student materials which are available include 5 technical manuals, 3 field manuals, 26 reading assignments, a: 78 study guides. One commercial publication, 53 tv tapes, and 6 other audiovisual aids are suggested for use in the course. These materials may be adapted to individual instruction. Written materials total approximately 870 pages.

COURSE TITLE: Welding High and Low Pressure Lines

MILITARY COURSE NO.: 3AZR53151-2

DOT NO.: 812.884

DOD NO.: 701

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION: 70

MILITARY CURRICULUM APPROVAL DATE: June 4, 1975

COURSE DESCRIPTION: This one-block, 70-hour course includes training in safety requirements for work with high and low pressure pipelines; pipe welding requirements and specifications; special pipeline repair welding applications; layout and fit-up of various types of pipe joints; preparation of various types of pipe joints; metallic arc welding of carbon steel pipe; and inert gas shielded arc welding of stainless steel and aluminum pipe. Instructor materials include a plan of instruction (POI) and lesson plans for each subject covered in the course. Student material includes a study guide. No audiovisual materials are suggested for instructor use. This course contains 141 pages of printed matter.

COURSE TITLE: Welding of High Performance Aircraft and Missile Systems

MILITARY COURSE NO.: 3AZR53151-1

DOT NO.: 812.884

DOD NO.: 701

USOE OCCUPATIONAL CLUSTER: Manufacturing

DEVELOPED BY: Chanute Technical Training Center, Illinois

HOURS OF INSTRUCTION: 138

MILITARY CURRICULUM APPROVAL DATE: June 4, 1975

COURSE DESCRIPTION: This one-block self-paced course includes 138 hours of technical training. The course trains students in the methods and processes of welding and testing welded joints of various metal groups on high performance aircraft and missile systems. Safety is an integral part of training throughout the course. A measurement test, test critique, and course critique are given at the end of the course. Instructor materials are a plan of instruction (POI) and lesson plans. Student materials include 1 combined study guide and workbook, a bibliography, and 1 handout. No audiovisual aids are suggested for use in the course. Printed matter totals 243 pages.

COURSE TITLE: Wheeled Vehicle Mechanic Course

MILITARY COURSE NO.:	DOT NO.:	DOD NO.:	USOE OCCUPATIONAL CLUSTER:
AR 610	620.281	610	Transportation

DEVELOPED BY: 4th Advanced Individual Training Brigade (ENGR), Fort Leonard Wood, Missouri

HOURS OF INSTRUCTION:	MILITARY CURRICULUM APPROVAL DATE:
236	No date

COURSE DESCRIPTION: After completing this course, students will be able to perform organizational maintenance and to assist in the repair of automotive vehicles and associated equipment. This course of study includes such topics as nomenclature and functioning of automotive wheel vehicle components; operating principles of internal combustion engines, automotive power trains, and chassis components; fundamentals of fuel and electrical systems; engine troubleshooting and tune up procedures; use of organizational tools and test equipment; and application of regulations and technical manuals. This course involves 236 hours of instruction. Available for the instructor is the plan of instruction, which includes lesson outlines and scheduled proficiency tests. Detailed lesson plans are also provided for each 50-minute period. These lesson plans list audiovisual aids, references, staff needs, and equipment. Seven student workbooks, of which two are programmed instruction, are also available. These materials may be adaptable to individualized instruction. This course contains about 750 pages of materials.

BUSINESS & OFFICE

COMMUNICATIONS & MEDIA

CONSTRUCTION

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Construction Equipment: Crawler Tractor Operation	AR 730	Army, Fort Belvoir, VA	34
Construction Equipment: Front End Loader and Forklift Operations	AR 730	Army, Fort Belvoir, VA	35
Construction Equipment: Motorized Grader Operation	AR 730	Army, Fort Belvoir, VA	36
Construction Equipment: Quarry Blasting Operations	AR 730	Army, Fort Belvoir, VA	37
Construction Equipment: Quarry Machine Operator	AR 730	Army, Fort Belvoir, VA	38
Construction Equipment: Quarry Plant Operations	AR 730	Army, Fort Belvoir, VA	39
Construction Equipment: Special Purpose Equipment Operation	AR 730	Army, Fort Belvoir, VA	40
Construction Equipment: Wheeled Tractor/ Scraper Operation	AR 730	Army, Fort Belvoir, VA	41

HEALTH

Title	Number	Service	Page No.
Cardiopulmonary Laboratory Specialist	3ALR91630	Sheppard Air Force Base, TX	26
Dental Assistant (Phases I and II)	3ALR98330/ 3ALR98370	Sheppard Air Force Base, TX	54
Dental Laboratory Specialist	3ABR98230	Sheppard Air Force Base, TX	55
Dental Specialist	3ABR98130	Sheppard Air Force Base, TX	56
Dental Technician School, Class A	CG 330	Coast Guard, Cape May, NJ	57
Medical Laboratory Specialist	3ABR90430	Sheppard Air Force Base, TX	101
Medical Service Specialist	3ABR90230	Sheppard Air Force Base, TX	102
Medical Service Technician	3AZR90270-1	Sheppard Air Force Base, TX	103
Operating Room Specialist	3ABR90232	Sheppard Air Force Base, TX	109
Optometry Specialist	3ABR91235	Sheppard Air Force Base, TX	110
Pharmacy Specialist	3ABR90530	Sheppard Air Force Base, TX	112
Physical Therapy Specialist	3ABR91330	Sheppard Air Force Base, TX	113
Physician Assistant (Phase I)	3ALR91730	Sheppard Air Force Base, TX	114
Psychiatric Ward Specialist	3ABR91431-2	Sheppard Air Force Base, TX	117
Radiology Specialist	3ABR90330	Sheppard Air Force Base, TX	118

MANUFACTURING

Title	Number	Service	Page No.
Aviation Electronics Technician Course, Class A	CG 602	Coast Guard, Elizabeth City, NC	6
Aviation Machinist's Mate, Class A	CG 600	Coast Guard, Elizabeth City, NC	7
Avionic Communications Specialist	3ABR32830	Keesler Air Force Base, MS	8
Avionic Navigation Systems Specialist	3ABR32831	Keesler Air Force Base, MS	9
Damage Controlman School, Class A	CG 780	Coast Guard, Governors Island, NY	53

Title	Number	Service	Page No.
Electronic Principles	3AQR30020-1	Keesler Air Force Base, MS	64
Electronics Technician School, Class A	CG 100	Coast Guard, Governors Island, NY	65
Ground Radio Communications Equipment Repairman	3ABR30434	Keesler Air Force Base, MS	91
Heat Treatment and Electroplating of Metals	3AZR53151	Chanute Air Force Base, IL	92
Introduction to Metal Bonded Repair	3AZR53153-3	Chanute Air Force Base, IL	95
Machinery Technician -- Class A	CG 702	Coast Guard, Yorktown, VA	97
Machinist Course	702-44E20	Army, Aberdeen Proving Ground, MD	98
Metals Processing Specialist	3ABR53131	Chanute Air Force Base, IL	105
Molder, Class A	A-790-0010	Navy, San Diego, CA	107
Molder School, Class J	A-790-0011	Navy, San Diego, CA	108
Patternmaker "A"	A-790-0012	Navy, San Diego, CA	111
Refrigeration and Air Conditioning Equipment	3AZR54550-2	Sheppard Air Force Base, TX	119
Refrigeration and Air Conditioning Specialist	3ABR54530	Sheppard Air Force Base, TX	120
Steelworker, Gas Welding and Cutting	615.2	Navy, Port Hueneme, CA	123
Steelworker School, Arc Welding, Pipe	612.1	Navy, Port Hueneme, CA	124
Steelworker School, Class A	A-711-0015	Navy, Port Hueneme, CA	125
Welding Course	701-44C20	Army, Aberdeen Proving Ground, MD	132
Welding High and Low Pressure Lines	3AZR53151-2	Chanute Air Force Base, IL	133
Welding of High Performance Aircraft and Missile Systems	3AZR53151-1	Chanute Air Force Base, IL	134

PERSONAL SERVICES

Title	Number	Service	Page No.
Bakery NCO Leadership Course	MC 800	Marine Corps, Camp Lejeune, NC	10
Basic Baker Course	MC 800	Marine Corps, Camp Lejeune, NC	13
Basic Food Service Course	MC 800	Marine Corps, Camp Lejeune, NC	15
Cook	3ABR62230/ 3AQR62231	Lowry Air Force Base, CO	52
Diet Therapy Specialist	3ABR62231-2	Sheppard Air Force Base, TX	58

Title	Number	Service	Page No.
Food Service NCO Leadership Course	MC 800	Marine Corps, Camp Lejeune, NC	84
Food Service Specialist	800-94B20	Army, Fort Lee, VA	85
Food Service Staff NCO Leadership Course	MC 800	Marine Corps, Camp Lejeune, NC	86

PUBLIC SERVICE

Title	Number	Service	Page No.
Construction Electrician School, Shore Based Power Plant Operations	212.1	Navy, Port Hueneme, CA	30
Entomology Specialist	3ABR56630	Sheppard Air Force Base, TX	77
Environmental Support Specialist	3ABR56631	Sheppard Air Force Base, TX	78
Fire Protection Specialist	3ABR57130-1	Chanute Air Force Base, IL	83
Instructional System Materials Development	3AZR75100	Lackland Air Force Base, TX	94
Law Enforcement Specialist	3ABR81230	Lackland Air Force Base, TX	96
Social Problems of Police Administration	3AZR81271	Lackland Air Force Base, TX	122
Traffic Management and Accident Investigation	3AZR81271-1	Lackland Air Force Base, TX	128
Veterinary Specialist	3ABR90830	Sheppard Air Force Base, TX	131

TRANSPORTATION

Title	Number	Service	Page No.
Advanced Automotive Mechanic/Maintenance NCO Leadership Course	MC 610	Marine Corps, Camp Lejeune, NC	3
Automotive AC Electrical Systems	3AZR47252-2	Chanute Air Force Base, IL	4
Automotive Repair Course	610-63H20	Army, Aberdeen Proving Ground, MD	5
Base Vehicle Equipment Mechanic	3ABR47230	Chanute Air Force Base, IL	11
lc Automotive Mechanic Course	MC 610	Marine Corps, Camp Lejeune, NC	12

Title	Number	Service	Page No.
Construction Mechanic, Class A	A-610-0022	Navy, Port Hueneme, CA	42
Construction Mechanic, Engine Overhaul I (Cylinder Head)	325.1	Navy, Port Hueneme, CA	43
Construction Mechanic, Engine Overhaul II (Diesel)	325.2B	Navy, Port Hueneme, CA	44
Construction Mechanic, Engine Overhaul II (Gasoline)	325.2A	Navy, Port Hueneme, CA	45
Construction Mechanic, Engine Tune-Up	332.2	Navy, Port Hueneme, CA	46
Construction Mechanic, Engine Tune-Up II (Diesel)	334.2	Navy, Port Hueneme, CA	47
Construction Mechanic, Equipment Chassis I (Basic)	365.1	Navy, Port Hueneme, CA	48
Construction Mechanic, Equipment Chassis II	365.2	Navy, Port Hueneme, CA	49
Construction Mechanic, Equipment Chassis III	365.3	Navy, Port Hueneme, CA	50
Construction Mechanic, Gasoline Engine Tune-Up (Basic)	332.1	Navy, Port Hueneme, CA	51
Electrical Power Production Specialist	3ABR54330	Sheppard Air Force Base, TX	60
Engineer Equipment Mechanic/Repairman	AR 612	Army, Fort Belvoir, VA	66
Fuel and Electrical Systems Repair	610-63G20	Army, Aberdeen Proving Ground, MD	87
General Purpose Automatic Transmission Maintenance	3AZR47252-3	Chanute Air Force Base, IL	88
General Purpose Vehicle Automotive Air Conditioners, I & O	3AZR47252-5	Chanute Air Force Base, IL	89
General Purpose Vehicle Mechanic	3ABR47232	Chanute Air Force Base, IL	90
Metal Body Repair Course	704-44B20	Army, Aberdeen Proving Ground, MD	104
Power Steering and Power Brakes, General Purpose Vehicle	3AZR47350-4	Chanute Air Force Base, IL	116
Vehicle Diagnostic Test Equipment	3AZR47252-1	Chanute Air Force Base, IL	130
Wheeled Vehicle Mechanic Course	AR 610	Army, Fort Leonard Wood, MO	135

AIR FORCE

COAST GUARD

Title	Number	Cluster	Page No.
Aviation Electronics Technician Course, Class A	CG 602	Manufacturing	6
Aviation Machinist's Mate, Class A	CG 600	Manufacturing	7
Damage Controlman School, Class A	CG 780	Manufacturing	53
Dental Technician School, Class A	CG 330	Health	57
Electrician's Mate, Class A	CG 721	Construction	63
Electronics Technician School, Class A	CG 100	Manufacturing	65
Machinery Technician -- Class A	CG 702	Manufacturing	97

MARINE CORPS

Title	Number	Cluster	Page No.
Advanced Automotive Mechanic/Maintenance NCO Leadership Course	MC 610	Transportation	3
Bakery NCO Leadership Course	MC 800	Personal Services	10
Basic Automotive Mechanic Course	MC 610	Transportation	12
Basic Baker Course	MC 800	Personal Services	13
Basic Food Service Course	MC 800	Personal Services	15
Food Service NCO Leadership Course	MC 800	Personal Services	84
Food Service Staff NCO Leadership Course	MC 800	Personal Services	86

LISTING OF NON-RESIDENT CORRESPONDENCE COURSES, ALPHABETIZED BY TITLE

Title	Number	Service	
Aerographer's Mate 3 & 2	NAVEDTRA 91664-3B	Navy	Pu
Aerospace Ground Equipment Mechanic	CDC 42355	Air Force	Tr
Aerospace Ground Equipment Technician	CDC 42375	Air Force	Ma
Aerospace Photographic Systems Repairman	CDC 40451	Air Force	Ma
Air Cargo Specialist	CDC 60551	Air Force	Tr
Air Conditioning Mechanic	11.15	Marine Corps	Ma
Air Controlman 3 & 2	NAVEDTRA 10367-F	Navy	Pu
Air Traffic Control Operator	CDC 27250	Air Force	Pu
Air Traffic Control Radar Repairman	CDC 30351	Air Force	Ma
Air Traffic Control Radar Technician	CDC 30371	Air Force	Ma
Air Transportation Supervisor	CDC 60571	Air Force	Tra
Aircraft Control and Warning Radar Repairman	CDC 30352	Air Force	Ma
Aircraft Control and Warning Radar Technician	CDC 30372	Air Force	Ma
Aircraft Electrical Systems Specialist	CDC 42350	Air Force	Ma
Aircraft Electrical Systems Technician	CDC 42370	Air Force	Ma
Aircraft Environmental Systems Mechanic	CDC 42351	Air Force	Ma
Aircraft Environmental Systems Technician	CDC 42371	Air Force	Ma
Aircraft Fuel Systems Mechanic	CDC 42353	Air Force	Tra
Aircraft Fuel Systems Technician	CDC 42373	Air Force	Tra
Aircraft Loadmaster	CDC 11450	Air Force	Tra
Aircraft Maintenance Specialist, Jet Aircraft, One and Two Engines	CDC 43151C	Air Force	Tra
Aircraft Maintenance Specialist, Jet Aircraft, Over Two Engines	CDC 43151E	Air Force	Tra
Aircraft Maintenance Specialist, Reciprocating Engine Aircraft	CDC 43151A	Air Force	Tra
Aircraft Maintenance Specialist (Turboprop Aircraft)	CDC 43151F	Air Force	Tra
Aircraft Maintenance Technician, Jet Aircraft, One and Two Engines	CDC 43171C	Air Force	Tra

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Title	Number	Service	Cluster
Aircraft Maintenance Technician, Jet Aircraft, Over Two Engines	CDC 43171E	Air Force	Transportation
Aircraft Maintenance Technician, Reciprocating Engine Aircraft	CDC 43171A	Air Force	Transportation
Aircraft Maintenance Technician (Turboprop Aircraft)	CDC 43171F	Air Force	Transportation
Aircraft Pneudraulic Repair Technician	CDC 42172	Air Force	Transportation
Aircraft Pneudraulic Repairman	CDC 42152	Air Force	Transportation
Aircraft Propeller Repairman	CDC 42650	Air Force	Transportation
Aircraft Propeller Technician	CDC 42171	Air Force	Transportation
Aircrew Egress Systems Mechanic	CDC 42352	Air Force	Transportation
Airframe Repair Specialist	CDC 53153	Air Force	Manufacturing
Allied Trades	ORD 426	Army	Manufacturing
Antenna Construction and Propagation of Radio Waves	25.15b	Marine Corps	Communications & Media
Apprentice Administrative Specialist	CDC 70230	Air Force	Business & Office
Apprentice Athletic Specialist	CDC 74130	Air Force	Hospitality & Recreation
Apprentice Baker	CDC 62130	Air Force	Personal Services
Apprentice Cable Splicing Specialist	CDC 36134	Air Force	Manufacturing
Apprentice Carpenter	CDC 55230	Air Force	Construction
Apprentice Construction Equipment Operator	CDC 55131	Air Force	Construction
Apprentice Cook	CDC 62230	Air Force	Personal Services
Apprentice Dental Specialist	CDC 98130	Air Force	Health
Apprentice Duplicating Specialist	CDC 71332	Air Force	Communications & Media
Apprentice Electrician	CDC 54230	Air Force	Construction
Apprentice Fabric and Rubber Products Specialist	CDC 58230	Air Force	Manufacturing
Apprentice Fire Protection Specialist	CDC 57130	Air Force	Public Service
Apprentice General Purpose Vehicle Mechanic	CDC 47330	Air Force	Transportation
Apprentice Heating Systems Specialist	CDC 54730	Air Force	Public Service

Title	Number	Service	Cluster
Apprentice Machinist	CDC 53130	Air Force	Construction
Apprentice Mason	CDC 55233	Air Force	Construction
Apprentice Medical Administrative Specialist	CDC 90630	Air Force	Business & Office
Apprentice Medical Service Specialist	CDC 90230	Air Force	Health
Apprentice Outside Wire and Antenna Maintenance Repairman	CDC 36130	Air Force	Communications & Media
Apprentice Pavements Maintenance Specialist	CDC 55130	Air Force	Construction
Apprentice Plumber	CDC 55235	Air Force	Construction
Apprentice Protective Coater	CDC 55234	Air Force	Construction
Apprentice Recreation Specialist	CDC 74131	Air Force	Fine Arts & Humanities
Apprentice Still Photographic Specialist	CDC 23132	Air Force	Communications & Media
Apprentice Supply Services Specialist	CDC 61130	Air Force	Business & Office
Apprentice Telecommunications Operations Specialist	CDC 29130	Air Force	Communications & Media
Apprentice Vehicle Operator/Dispatcher	CDC 60330	Air Force	Transportation
Aspects of Dining Facility Management	QM 463-1	Army	Public Service
Athletic Specialist	CDC 74150	Air Force	Hospitality & Recreation
Automatic Data Processing	ORD 905	Army	Business & Office
Automatic Flight Control Systems Specialist	CDC 32550	Air Force	Manufacturing
Automatic Flight Control Systems Technician	CDC 32570	Air Force	Manufacturing
Automatic Tracking Radar Repairman	CDC 30353	Air Force	Manufacturing
Automatic Tracking Radar Technician	CDC 30373	Air Force	Manufacturing
Automotive Electricity	ORD 404	Army	Transportation
Automotive Engine Maintenance and Repair	35.8	Marine Corps	Transportation
Automotive Power Trains	35.9e	Marine Corps	Transportation
Aviation Electrician's Mate 3 & 2	NAVEDTRA 91610-1G	Navy	Manufacturing
Aviation Electronics Technician 1 & C	NAVEDTRA 91615-G	Navy	Manufacturing
Aviation Machinist's Mate J 3 & 2	NAVEDTRA 91582-B	Navy	Manufacturing
Aviation Structural Mechanic E 3 & 2	NAVEDTRA 91622-2A	Navy	Manufacturing
Aviation Structural Mechanic H 3 & 2	NAVEDTRA 91365-1B	Navy	Manufacturing
Aviation Structural Mechanic S 3 & 2	NAVEDTRA 91364-D	Navy	Manufacturing
Aviation Support Equipment Technician E 3 & 2	NAVEDTRA 91410-B	Navy	Manufacturing

Title	Number	Service	Cluster
Avionic Inertial and Radar Navigation Systems Specialist	CDC 32854	Air Force	Manufacturing
Avionic Navigation Systems Specialist	CDC 32851	Air Force	Manufacturing
Avionic Navigation Systems Technician	CDC 32871	Air Force	Manufacturing
Avionics Instrument Systems Specialist	CDC 32551	Air Force	Manufacturing
Avionics Instrument Systems Technician	CDC 32571	Air Force	Manufacturing
Baker	CDC 62150	Air Force	Personal Services
Base Maintenance Equipment Repairman	CDC 47250	Air Force	Transportation
Basic Electronics	ORD 99	Army	Manufacturing
Basic Engineer Equipment Mechanic	13.29c	Marine Corps	Transportation
Basic Machines	NAVPERS 91230-F	Navy	Manufacturing
Basic Nutrition	33.16	Marine Corps	Personal Services
Basic Principles of Marine Diesel Engines	TRANS 475	Army	Transportation
Basic Warehousing	30.1H	Marine Corps	Marketing & Distribution
Boiler Technician 3 & 2	NAVEDTRA 91512-4A	Navy	Manufacturing
Boilermaker 1 & C	NAVEDTRA 91515-2	Navy	Manufacturing
Bread Baking	QM 486	Army	Personal Services
Bread Baking	33.10e	Marine Corps	Personal Services
Builder 1 & C	NAVEDTRA 91586-4	Navy	Construction
Builder 3 & 2	NAVEDTRA 91584-2E	Navy	Construction
Cable Splicing Specialist	CDC 36154	Air Force	Manufacturing
Cable Splicing Supervisor	CDC 36174	Air Force	Communications & Media
Carpentry I (Tools and Equipment)	ENGR 531-0	Army	Construction
Carpentry II (Frame Construction)	ENGR 532-0	Army	Construction
Carpentry Specialist	CDC 55250	Air Force	Construction
Chemical Warfare Defense	57.6	Marine Corps	Public Service
Civil Disturbances	MP 7-14	Army	Public Service
Civil Disturbances I	MP 6-14 I	Army	Public Service
Civil Distrubances II	MP 6-14 II	Army	Public Service
Clothing Sales Store and Self-Service Supply Center	QM 173-1	Army	Marketing & Distribution
Club Food Services (Formerly: Open Mess Food Service)	QM 500	Army	Public Service

Title	Number	Service	Cluster
Club Restaurant Operations, Part I	QM 371-1	Army	Personal Services
Club Restaurant Operations, Part II	QM 372	Army	Personal Services
Commissary Store Management	QM 387	Army	Business & Office
Communication Fundamentals	SIG 320	Army	Communications & Media
Communications Technician A 3 & 2	NAVTRA 91558-D	Navy	Business & Office
Communications Technician M 3 & 2	NAVEDTRA 91557-C	Navy	Business & Office
Communications Technician O 3 & 2	NAVEDTRA 10235-C	Navy	Business & Office
Computer Operator	CDC 51150	Air Force	Business & Office
Computer Systems Analysis and Design Technician	CDC 51172	Air Force	Business & Office
Construction Electrician 1 & C	NAVTRA 91571-1H	Navy	Construction
Construction Electrician 3 & 2	NAVEDTRA 91569-2E	Navy	Construction
Construction Equipment Operation I (Operator Maintenance)	ENGR 574-1	Army	Construction
Construction Equipment Operation II (Crawler Tractor)	ENGR 575-1	Army	Construction
Construction Equipment Operation III (Crane Shovel)	ENGR 576-1	Army	Construction
Construction Equipment Operation IV (Grader)	ENGR 577-1	Army	Construction
Construction Equipment Operator	CDC 55151	Air Force	Construction
Construction Mechanic 1 & C	NAVEDTRA 10645-E	Navy	Transportation
Construction Mechanic 3 & 2	NAVEDTRA 91579-2B	Navy	Transportation
Construction Print Reading	ENGR 113-1	Army	Construction
Construction Print Reading	13.44	Marine Corps	Construction
Construction Surveying	ENGR 594	Army	Construction
Constructionman	NAVEDTRA 91562-2B	Navy	Construction
Continuous Photoprocessing Specialist	CDC 23350	Air Force	Communications & Media
Corrections	58.1h	Marine Corps	Public Service
Corrections Specialist	CDC 81251	Air Force	Public Service

Title	Number	Service	Cluster
Corrosion Control Specialist	CDC 53154	Air Force	Construction
Criminal Investigation Methods I	MP 4-11 I	Army	Public Service
Criminal Investigation Methods II	MP 4-11 II	Army	Public Service
Criminal Investigation Methods III	MP 4-11 III	Army	Public Service
Cryogenic Fluids Production Specialist	[illegible]C 54450	Air Force	Manufacturing
Data Processing Technician 3 & 2	NAVEDTRA 91274-2	Navy	Business & Office
Dental Laboratory Specialist	CDC 98250	Air Force	Health
Dental Specialist	CDC 98150	Air Force	Health
Dental Technician 1 & C	NAVTRA 91690	Navy	Health
Dental Technician 3 & 2	NAVEDTRA 91681-2A	Navy	Health
Dental Technician, Prosthetic 1 & C	NAVTRA 91687-1D	Navy	Health
Dental Technician, Prosthetic 3 & 2	NAVPERS 91686-1C	Navy	Health
Dental Technician, Repair	NAVTRA 91689-2A	Navy	Health
Dentalman	NAVPERS 91393	Navy	Health
Developments in Food Preservation and Preparation	QM 353	Army	Personal Service
Diet Therapy Specialist	CDC 62251	Air Force	Personal Service
Diet Therapy Supervisor	CDC 62271	Air Force	Personal Service
Drainage	ENGR 359-3	Army	Public Service
Ecology and Oil Spills	QM 492	Army	Public Service
Effective Writing and Speaking	QM 440-1	Army	Communications & Media
Electrical Distribution	ENGR 112-1	Army	Communications & Media
Electrical Fundamentals-AC	SIG 303	Army	Manufacturing
Electrical Fundamentals-DC	SIG 301	Army	Manufacturing
Electrical Networks	SIG 304	Army	Manufacturing
Electrical Power Line Specialist	CDC 54251	Air Force	Communications & Media
Electrical Power Line Technician	CDC 54271	Air Force	Communications & Media
Electrical Power Production Specialist	CDC 54350	Air Force	Manufacturing
Electrical Power Production Technician	CDC 54370	Air Force	Manufacturing
Electrical Specialist	CDC 54211	Air Force	Construction
Electrical Systems and Components	ORD 727	Army	Manufacturing

Title	Number	Service	Cluster
ectrician's Mate 1 & C	NAVEDTRA 91526-1E	Navy	Construction
ectrician's Mate 3 & 2	NAVEDTRA 91524-3	Navy	Construction
ectricity	ENGR 422-1	Army	Manufacturing
ectricity I (Fundamentals)	ENGR 552-1	Army	Manufacturing
ectricity II (Installation and Maintenance of Interior Systems)	ENGR 553-1	Army	Manufacturing
ctron-Tube Applications	SIG 312	Army	Manufacturing
ctron Tubes	SIG 311	Army	Manufacturing
ctronic Computer Systems Specialist	CDC 30554	Air Force	Manufacturing
ctronic Computer Systems Technician	CDC 30574	Air Force	Manufacturing
ctronic Switching Systems Repairman	CDC 36252	Air Force	Communications & Media
ctronics Technician 3 & 2, Part 1 (Communications)	NAVTRA 91236	Navy	Communications & Media
ctronics Technician 3 & 2, Part 2 (Radar)	NAVEDTRA 91237	Navy	Manufacturing
ctronics Test Methods and Practices	NAVPERS 91229	Navy	Manufacturing
ine Principles	ORD 607	Army	Transportation
ineer Environmental Support Specialist	CDC 56651	Air Force	Public Service
ineer Equipment II	ENGR 376-3	Army	Transportation
ineer Equipment Mechanic	13.41b	Marine Corps	Transportation
ineer Equipment Operator	13.31g	Marine Corps	Construction
ineering Aid 1 & C	NAVEDTRA 91566-4	Navy	Construction
ineering Aid 3 & 2	NAVTRA 91564-3B	Navy	Construction
ineering Drawing II	ENGR 131-9	Army	Construction
ineman 3 & 2	NAVTRA 91519-2B	Navy	Transportation
omology	ENGR 561	Army	Public Service
omology Specialist	CDC 56650	Air Force	Public Service
ironmental Health Specialist	CDC 90750	Air Force	Public Service
ironmental Support Technician	CDC 56671	Air Force	Public Service
ipment Operator 3 & 2	NAVTRA 91574-4	Navy	Construction
ric and Rubber Products Specialist	CDC 58250	Air Force	Manufacturing
its and Diseases in Pastry and Bread Products	QM 488	Army	Personal Service
e Control Technician G 3 & 2	NAVTRA 91341-1	Navy	Manufacturing

Title	Number	Service	Cluster
Control Technician (M) 3 & 2	NAVEDTRA 91342-1	Navy	Manufacturing
Protection Specialist	CDC 57150	Air Force	Public Service
Protection Supervisor	CDC 57170	Air Force	Public Service
t Engineer Specialist (Turboprop Aircraft)	CDC 113; A	Air Force	Transportation
t Engineer Technician (Turboprop Aircraft)	CDC 11370A	Air Force	Transportation
t Facilities Equipment Repairman	CDC 30451	Air Force	Manufacturing
Mechanics	ENGR 423-1	Army	Transportation
Inspection and Storage, Recipe Conversion, l the Cook's Worksheet	33.14b	Marine Corps	Personal Services
Preparation	QM 454	Army	Personal Services
Preparation Management	QM 323	Army	Personal Services
Service Facilities	QM 381-1	Army	Personal Services
Service Fundamentals	33.4h	Marine Corps	Personal Services
Service Management	33.15a	Marine Corps	Personal Services
Service Sanitation (Formerly Mess itation)	QM 394	Army	Personal Services
ervice Specialist	CDC 62250	Air Force	Personal Services
ervice Supervisor	CDC 62270	Air Force	Personal Services
Structures	ENGR 69-1	Army	Construction
t Traffic Specialist	CDC 60251	Air Force	Transportation
on of Directing, The	QM 587	Army	Business & Office
entals of Diesel Engines	13.1d	Marine Corps	Transportation
entals of Digital Logic	28.6d	Marine Corps	Business & Office
entals of Electricity	ORD 98	Army	Manufacturing
entals of Electricity	11.16a	Marine Corps	Manufacturing
entals of Management	QM 191-2	Army	Business & Office
entals of Map Reading	03.43c	Marine Corps	Public Service
l Purpose Vehicle Mechanic	CDC 47252	Air Force	Transportation
ic Surveyor	CDC 22250	Air Force	Construction
ies 71 Diesel Engines	13.11g	Marine Corps	Transportation
cs Specialist	CDC 23151	Air Force	Fine Arts & Humanities
Radio Communications Equipment airman	CDC 30454	Air Force	Manufacturing

Title	Number	Service	Cluster
tools	QM 418	Army	Manufacturing
ony I	55.2	Marine Corps	Fine Arts & Humanities
ony II	55.3a	Marine Corps	Fine Arts & Humanities
ing and Ventilating I (Introduction to eating)	ENGR 564-1	Army	Construction
ing and Ventilating II (Fundamentals of eating)	ENGR 565-1	Army	Construction
ing and Ventilating III (Warm-Air and Hot-ater Heating)	ENGR 566	Army	Construction
ing and Ventilating IV (Steam Heating)	ENGR 567	Army	Construction
ing Systems Specialist	CDC 54750	Air Force	Construction
ing Systems Technician	CDC 54770	Air Force	Manufacturing
y and Special Equipment	ORD 731	Army	Manufacturing
y Equipment	ORD 532	Army	Manufacturing
copter Mechanic (Fully Articulated Rotor)	CDC 43150C	Air Force	Transportation
copter Mechanic (Semirigid Rotor)	CDC 43150D	Air Force	Transportation
copter Technician (Fully Articulated otor)	CDC 43170C	Air Force	Transportation
copter Technician (Semiarticulated Rotor)	CDC 43170B	Air Force	Transportation
copter Technician (Semirigid Rotor)	CDC 43170D	Air Force	Transportation
tal Corpsman 1 & C	NAVPERS 91671-2	Navy	Health
talman	NAVEDTRA 91667-1E	Navy	Health
trator Draftsman 1 & C	NAVEDTRA 91489-2	Navy	Construction
trator Draftsman 3 & 2	NAVTRA 91488-2	Navy	Construction
mation Specialist	CDC 79150	Air Force	Personal Services
llation, Operation, and Operator's intenance of Diesel-Engine-Driven nerator Sets	11.19	Marine Corps	Transportation
umentman 3 & 2	NAVEDTRA 91383-1	Navy	Communications & Media
ior Wiring	ENGR 111	Army	Construction
duction to Automatic Data Processing	SIG 36	Army	Business & Office

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Title	Number	Service	Cluster
oduction to Club Management	QM 497	Army	Business & Office
oduction to Cooling	QM 453	Army	Personal Services
oduction to Data Processing Systems Hardware	40.7c	Marine Corps	Business & Office
oduction to Data Processing Systems Software	40.8a	Marine Corps	Business & Office
oduction to Electronics	SIG 309	Army	Manufacturing
oduction to Wire Communications	SIG 3	Army	Communications & Media
stigative Photography	MP 4-12 I	Army	Public Service
Engine Mechanic	CDC 42652	Air Force	Transportation
Engine Technician	CDC 43270	Air Force	Transportation
alist 1 & C	NAVEDTRA 91453-1B	Navy	Communications & Media
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Basic Electrician	MC 721	Marine Corps, Camp Lejeune, NC	Construction
Basic Electronics Course (BEC)	MC 721	Marine Corps, Camp Lejeune, NC	Manufacturing
Basic Engineer Equipment Mechanic	MC 612	Marine Corps, Camp Lejeune, NC	Transportation
Basic Metal Worker	MC 700	Marine Corps, Camp Lejeune, NC	Manufacturing
Basic Plumbing and Water Supply Man	MC 720	Marine Corps, Camp Lejeune, NC	Construction
Basic Refrigeration Mechanic	MC 720	Marine Corps, Camp Lejeune, NC	Manufacturing
Builder/Concrete, Class C	A-730-0020	Navy, Gulfport, MS	Construction
Builder/Masonry, Class C	A-710-0017	Navy, Gulfport, MS	Construction
Builder/Millworker, Class C	A-712-0011	Navy, Port Hueneme, CA	Construction
Carpenter	712-51B20	Army, Ft. Belvoir, VA	Construction
Construction Drafting	413-81B20	Army, Ft. Belvoir, VA	Construction
Construction Electricians, Class B	A-721-0019/0022	Navy, Port Hueneme, CA	Construction
Construction Mechanics, Class B	A-610-0011	Navy, Port Hueneme, CA	Transportation
Construction Surveying	412-82B20	Army, Ft. Belvoir, VA	Construction
Constructionman, Class "P"	NV 030	Navy, Port Hueneme, CA	Construction
Electrical Equipment Repairman	MC 721	Marine Corps, Camp Lejeune, NC	Construction
Electrician's Mate School, Class A	A-662-0015/0016	Navy, San Diego, CA	Construction
Engineer Equipment Chief	MC 612	Marine Corps, Camp Lejeune, NC	Transportation
Engineer Equipment Repair	612-62B30	Army, Ft. Belvoir, VA	Transportation
Fire Investigations	3AZR57170-8	Chanute Air Force Base, IL	Public Services
Heat Treatment of Metals, Class C	A-702-0021	Navy, San Diego, CA	Manufacturing
Heavy Construction Technician, Builder School, Class C	A-710-0018	Navy, Davisville, RI	Construction
Hospital Corpsman School, Class A	CG 300	Coast Guard, New London, CT	Health
Hull Maintenance Technician School, Class A	A-780-0035	Navy, San Diego, CA	Transportation
Interior Communications Electrician, Class A	A-623-0012	Navy, San Diego, CA	Communications and Media
Introduction to Welding	A-700-0011	Navy, San Diego, CA	Manufacturing
Journeyman Electrician	MC 721	Marine Corps, Camp Lejeune, NC	Construction
Journeyman Engineer Equipment Mechanic	MC 612	Marine Corps, Camp Lejeune, NC	Transportation
Journeyman Metal Worker	MC 700	Marine Corps, Camp Lejeune, NC	Manufacturing

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Journeyman Refrigeration Mechanic	MC 720	Marine Corps, Camp Lejeune, NC	Manufacturing
Law Enforcement Course	830-95B20/831-95C20	Army, Ft. Gordon, GA	Public Services
Learning Supervisor Course	A-012-0010	Navy, San Diego, CA	Public Services
Machinery Repairman, Class A	A-702-0019	Navy, San Diego, CA	Manufacturing
Machinery Repairman, Class C	A-702-0022/A-702-0023	Navy, San Diego, CA	Manufacturing
Maintenance Welding Techniques, Class C	NV 701	Navy, Port Hueneme, CA	Manufacturing
Military Police Investigation	830-F8	Army, Ft. Gordon, GA	Public Services
Military Policeman	830-95B10	Army, Washington, DC	Public Services
Otolaryngology Surgical Specialist	3ALR91231	Keesler Air Force Base, MS	Health
Pipe Welding, Class C	A-701-0027	Navy, San Diego, CA	Manufacturing
Planning and Estimating Construction Group Ratings	A-412-0013	Navy, Port Hueneme, CA	Construction
Plate Welding, Class C	A-701-0025	Navy, San Diego, CA	Manufacturing
Radio Fundamentals Course (RadFC)	MC 201	Marine Corps, Camp Lejeune, NC	Manufacturing
Refrigeration Equipment Repair Course	720-51L20	Army, Ft. Belvoir, VA	Manufacturing
Soils Analysis Course	491-51G20	Army, Ft. Belvoir, VA	Construction
Steelworker, Class B	NV 703	Navy, Davisville, RI	Manufacturing
Steelworker/Sheetmetal, Class C	A-703-0010	Navy, Gulfport, MS	Manufacturing
Technician Theory Course (TTC)	MC 104	Marine Corps, Twentynine Palms, CA	Public Services
Utilities Chief	MC 720	Marine Corps, Camp Lejeune, NC	Construction
Utilities School, Class B	A-720-0022	Navy, San Diego, CA	Construction
Utilitiesman School, Class C	A-720-0022	Navy, Port Hueneme, CA	Construction
Water Well Drilling and Development, Class C	NV 720	Navy, Port Hueneme, CA	Construction