

Naval Construction Training Center
Gulfport, MS 39501-5003

February 2004



JOINT

NAVCONSTRACEN

COURSE

CATALOG

NAVAL CONSTRUCTION TRAINING CENTERS
GULFPORT, MISSISSIPPI 39501-5003
PORT HUENEME, CALIFORNIA 93043-4303

DEPARTMENT OF THE NAVY
NAVAL CONSTRUCTION TRAINING CENTER
GULFPORT, MISSISSIPPI 39501-5003
NAVAL CONSTRUCTION TRAINING CENTER
PORT HUENEME, CALIFORNIA 93043-4303

LETTER OF PROMULGATION

1. This catalog lists the formal courses, Class “A” and “C” (Section I), and Class “F” functional courses (Section II), that are available from the Naval Construction Training Centers, Gulfport, Mississippi and Port Hueneme, California and Detachments at Fort Leonard Wood, MO and Sheppard AFB, TX.
2. Submit proposed additions, corrections or comments concerning this catalog to Naval Construction Training Center (S7), Gulfport, Mississippi 39501-5003.
3. Additional copies of this catalog are available from the Commanding Officer, Naval Construction Training Center, Gulfport, Mississippi 39501-5003.
4. This catalog, revised February 2004 cancels and supersedes the Joint NAVCONSTRACEN Course Catalog dated September 2003.

J. D. RICE
CDR, CEC, USN
COMMANDING OFFICER
GULFPORT, MS

J. H. EDWARDS
CDR, CEC, USN
COMMANDING OFFICER
PORT HUENEME, CA

**Naval Construction Training Centers
Gulfport, MS and Port Hueneme, CA**

**and Detachments at
Fort Leonard Wood, MO and Sheppard AFB, TX
are accredited by the**



**Accrediting Commission of the Council on Occupational Education
41 Perimeter Center East, NE Suite 640
Atlanta, Georgia 30346
770-396-3898
800-917-2081
FAX 770-396-3790**

MISSION

To administer those courses and special training programs assigned by the Chief of Naval Education and Training. To train officer and enlisted personnel preparing them for early usefulness in their designated specialties. To supplement on-the-job training by providing advanced or specialized training when such training can be more advantageously given in a formal course.

STATEMENT OF PHILOSOPHY

The Naval Construction Training Centers (NAVCONSTRACENs) are guided by the philosophy that education and training must be relevant to the Naval Construction Force (NCF) requirements in the field. We believe that by meeting the NCF needs we assist in providing that skilled manpower necessary to ensure the nation's military strength and readiness. The Commands are dedicated not only to each individual's development and advancement in his/her chosen field, but also to the continued personal and professional growth of both faculty and students. Coupled with the process of producing trained, skilled personnel capable of performing their mission, we recognize the ultimate dignity and worth of each individual. We believe that there must be a total awareness and understanding in the area of human goals and personal values. Staff personnel and students are provided daily opportunities and given the guidance necessary to properly and effectively pursue success in technical fields and careers. We believe that individuals who have confidence in themselves and who are secure in their competencies can better serve their needs and the needs of the United States Navy, Army and Air Force.

EDUCATIONAL CREDITS

The American Council on Education (ACE) establishes college credit equivalencies for military training and experience. College credit recommendations are based upon the evaluations of formal courses and selected enlisted occupations evaluated by teams of civilian educators who have experience in similar subject areas. Results of the evaluations are published in the Guide to the Evaluation of Educational Experiences in the Armed Forces which is distributed free of charge to all colleges and universities in the U.S. Actual credit awards will depend on the institutions policy.

NAVAL CONSTRUCTION TRAINING CENTER PORT HUENEME, CA 93043-4303

Command History

Originally known as Camp Rousseau, the Advance Base Receiving Barracks (now NAVCONSTRACEN) was established at Port Hueneme in September, 1942. During World War II about 100,000 construction workers were trained for duty with the construction battalions. In 1945, Camp Rousseau became the Training and Distribution Center with the first classes convening in November of that year. There were 19 trade schools with courses running from three to twelve weeks. By BUPERS action in 1947, eight schools were established to conform with the seven new Seabee ratings and the Draftsman rating. In 1948, the Training and Distribution Center was renamed U.S. Naval Schools, Construction (NAVSCON) with "A" and "B" school levels added.

By November 1956, the growth of the schools caused Chief of Naval Operations to designate NAVSCON a major shore activity. Class "C" (Advanced) levels were added in 1958.

The 3787th Air Force Training Squadron was organized in 1967 to facilitate administration of growing numbers of Air Force trainees at NAVSCON. By the time the squadron was disestablished in 1971, over 2,300 Air Force personnel had been trained by NAVSCON.

In 1972, NAVSCON became part of the Naval Technical Training Command and, in July 1974, changed its name to the Naval Construction Training Center (NAVCONSTRACEN).

Disaster Recovery Training was added in 1976; the Underwater Construction Technician School was established in October, 1977, and relocated to Panama City, FL in Jan 1999.

Accreditation was initially granted in January, 1979 by the Western Association of Schools and Colleges. In January, 1984, the first reaccreditation was attained. In July 1991, the NAVCONSTRACEN attained accreditation under the Southern Association of Colleges and Schools.

In January 1996, the Council on Occupational Education assumed the accreditation for the NAVCONSTRACEN.

Interservice Training Review Organization (ITRO) was created to reduce costs in the Department of Defense by consolidating similar training in the Armed Forces. In July 1993, the service began reviewing the Civil Engineer and construction trade skills training for consolidation. A Detailed Analysis Group (DAG) with members from all services found that the initial entry courses had enough in common and could be combined to save money. Full implementation became "A Reality" in October 1995. The ITRO plan selected the Naval Construction Training Center in Gulfport, Mississippi as the training site for Army, Navy, and Air Force students attending Builder and Steelworker apprentice courses. Construction Mechanics for the Air Force and Navy are trained at the Naval Construction Training Center at Port Hueneme, California. Sheppard Air Force Base at Wichita Falls, Texas, is the ITRO training site for Construction Electrician and Utilitiesman apprentice courses for the Navy, Air Force, and Army. Fort Leonard Wood, Missouri is the ITRO training site for the Equipment Operator and Engineering Aids apprentice courses for the Navy, Air Force, Army and Marine Corps. Each service provides instructors and administrative personnel at the training sites.

General Information

Zip Code:	93043-4304
Telephone Area Code:	805
DSN Prefix:	551
Base Operator:	982-4711
NAVCONSTRACEN Quarterdeck:	982-4298
NCBC PSD:	982-4513
NAVCONSTRACEN Scheduling Office:	982-4171

The Naval Construction Training Center is a tenant command of the Naval Construction Battalion Center, Port Hueneme, CA. The base is located in the city of Port Hueneme, approximately fifty-five miles northwest of Los Angeles. The area is served by two major highways: U.S. 101 and State Route No. 1. The nearby cities of Port Hueneme, Oxnard, and Ventura abound with beaches and facilities for recreation and relaxation. Santa Barbara, approximately thirty miles to the northwest, boasts beautiful beaches and many sites of historical interest.

Transportation

Air - The Ventura County Airport is located approximately two miles north of the Naval Construction Battalion Center and is served by United Express.

Bus - The Oxnard-Port Hueneme area is served by Greyhound, The Great American Stageline and South Coast Area Transit bus lines. The terminals are located in downtown Oxnard.

Rail - Oxnard and Ventura have terminals for the Southern Pacific main coastline railway (AMTRAK).

Car Rental - Several car rental agency offices are located throughout the city of Oxnard.

Taxi - Commercial taxi service is available from the bus, railway, and airport terminals to the base.

Weather/Dress

The mean daytime temperature for the area is 65 degrees F. The temperature at night rarely falls below 30 degrees F. There is generally a cool ocean breeze. November through February are usually the only months during which there is rainfall. Military and civilian attire is required as appropriate to the season and activity.

Personnel Procedures

Personnel support functions such as messing, berthing, and recreation facilities are provided for NAVCONSTRACEN by NCBC. Medical, dental, and disbursing services are provided by the Naval Regional Medical Clinic, Dental Facility, and Personnel Support Detachment, respectively. All students reporting aboard to attend "A" or "C1" courses will report to the NAVCONSTRACEN Quarterdeck in building 1184 for initial check-in, assignment of quarters, and to receive direction for further check-in and indoctrination. Students from non-tenant activities reporting for SCBT and CBVET courses report to Bldg 115, NMT Office. .

NAVAL CONSTRUCTION TRAINING CENTER GULFPORT, MS 39501-5003

Command History

Naval Construction Training Center, originally Construction Training Unit (CTU), Gulfport was commissioned 13 July 1967 primarily to train Direct Procurement Petty Officers for the Construction Forces Afloat, during the Vietnam build-up.

In early 1968, the mission was expanded to include training of personnel assigned to battalions homeported in Gulfport, as well as the majority of the Reserve Naval Construction Force, in those skills necessary for the battalion to execute its construction missions when deployed. This type of training is known as "Special Construction Battalion Training" or SCBT. A small array of six formal courses was begun in late 1968 with the first course offered being the Construction Mechanic "C" Course, Automatic Transmission.

The Direct Procurement Petty Officer program ended on 26 February 1971 after training approximately ten thousand men. A short period of tranquility ensued aboard CTU, until October 1971 when the Reserve "4x10" program and shortly thereafter the "Constructionman Apprentice Base Indoctrination" program began.

In early 1974 it became evident that NAVSCON, Davisville, Rhode Island would be decommissioned and the "Mirror Image" concept for Seabee training was established with CTU Gulfport, MS and NAVSCON Port Hueneme, California as the major training sites. Along with "Mirror Image" came a name change to Naval Construction Training Center, the title once assigned to the first Construction Training Command at Camp Perry, Virginia during World War II.

During the latter half of 1974 and 1975, two major evolutions were completed. The first was the realization of "Mirror Image." By the end of 1975, Naval Construction Training Center, Gulfport offered a total of 32 formal courses. The second major accomplishment of 1975 was accreditation. Naval Construction Training Center Gulfport became the first Technical-Vocational School in the Navy to gain accreditation. The school was accredited by the Southern Association of Colleges and Schools. During **1979** a restructuring of the Construction Rating NECs was instituted by the cancelling of 12 existing NECs and establishing seven new NECs replacing the old "J" school courses.

Interservice Training Review Organization (ITRO) was created to reduce costs in the Department of Defense by consolidating similar training in the Armed Forces. In July 1993, the service began reviewing the Civil Engineer and construction trades skills training for consolidation. A Detailed Analysis Group (DAG) with members from all services, found that the initial entry courses had enough in common and could be combined to save money. Full implementation became "A Reality" in October 1995. The ITRO plan selected the Naval Construction Training Center in Gulfport, Mississippi as the training site for Army, Navy, and Air Force students attending Builder and Steelworking apprentice courses. Construction Mechanics for the Air Force and Navy are training at the Naval Construction Training Center at Port Hueneme, California. Sheppard Air Force Base at Wichita Falls, Texas, is the ITRO training site for Construction Electrician and Utilitiesman apprentice courses for the Navy, Air Force, and Army. Fort Leonard Wood, Missouri is the ITRO training site for the Equipment Operator and Engineering Aids apprentice courses for the Navy, Air Force, Army and Marine Corps. Each service provides instructors and administrative personnel at the training sites.

In carrying out its mission, the goal of the Naval Construction Training Center, Gulfport is to offer the best training possible, under the best conditions, to meet the needs of the Naval, Army, and Air Force

Construction Forces.

General Information

Zip Code:	39501-5003
Telephone Area Code:	228
DSN Prefix:	868
NCBC quarterdeck:	871-2555
NAVCONSTRACEN quarterdeck:	871-2132
NCBC PSD:	871-2763
NAVCONSTRACEN Scheduling Office:	871-2534/2513

The Naval Construction Training Center is a tenant command of the Naval Construction Battalion Center, Gulfport, Mississippi. The base is located approximately two miles to the west of downtown Gulfport. The area is served by three major highways: U.S. 90 and I-10 from the east-west, and U.S. 49 from the north. Numerous points of interest are within easy commuting distance for weekend excursions. New Orleans, LA, is located 1 hour west and Mobile, AL, 1 hour to the east.

Transportation

Air - Gulfport Municipal Airport is located approximately five miles northeast of the base and is served by Northwest, Continental and Atlantic Southeast Airlines (Delta Connection) with service to Atlanta, Memphis and Houston.

Bus - Gulfport is served by Greyhound/Trailway bus lines. The bus terminals for both companies are in downtown Gulfport, approximately two miles from the base. Additionally, "Coastliner" transportation is available to and from New Orleans International Airport.

Rail - Gulfport is served by AMTRAK.

Car Rental - Most auto rental agencies are available - Hertz, Avis, National, Budget, Thrifty, and others. These agencies are all located at the Gulfport Municipal Airport.

Taxi - There is also a local airport limousine service, taxi service, and a limited municipal bus service serving the local areas.

Weather/Dress

The weather varies from month to month, with the winter months usually mild, but a medium jacket is required at times. Summers are hot and quite humid.

Students attending BU and SW "A" school courses are required to wear the steel toed foot ware issued at boot camp. Students attending Advanced and "F" type courses are required to report with steel toed boots, hardhats and hearing protection.

Personnel Procedures

Logistics support for NAVCONSTRACEN, Gulfport is supplied by NCBC in all matters pertaining to berthing, messing, medical, dental, and disbursing. All students reporting aboard to attend "A" or "C1" courses will report to the Building 317 for endorsement of their orders and to receive directions for additional check-in and assignment of quarters. These procedures also apply to students from non-tenant activities reporting for SCBT courses.

**NAVAL CONSTRUCTION TRAINING CENTER, GULFPORT DETACHMENT
FORT LEONARD WOOD, MO 65473-5000**

General Information

Short Title: NAVCONSTRACEN DET FT LEONARD WOOD MO

Address: Officer in Charge
Naval Construction Training Center Detachment
1301 Iowa Ave.
Fort Leonard Wood, MO 65473-5850

Telephone: COMM: (573)596-0488
DSN: 541-0488
COMM FAX: (573)596-1673

Availability of Transportation

- a. If driving, the most direct route is by Interstate 44 that runs from St. Louis to Oklahoma City. About halfway between the cities of Lebanon and Rolla are the St. Robert, Waynesville and Fort Leonard Wood exits and signs marking the route to post.
If traveling by air to St. Louis International Airport, car rental and bus transportation are available, and Trans World Express offers direct flights to post. Information and assistance for military personnel is available at the United Services Organization in the airport.
Greyhound bus has a terminal outside the Main Gate to serve patrons arriving and departing.
- b. On post, taxis are readily available with flat rate \$1.60 per person on base.

UNIFORMS

- a. WINTER: The winter period runs from the first Monday in November until the first Monday in May. The prescribed uniforms during the winter period will be for Officers and Chief Petty Officers, Dress, or Service Khakis, or BDU's; for E-6 and below personnel the uniform will be Winter Working Blues, Dungarees, or BDU's.
- b. SUMMER: The summer period runs from the first Monday in May until the first Monday in November, the prescribed uniforms during the summer period will be for Officers and Chief Petty Officers, Dress or Service Kahkis, or BDU'; for E-6 and below personnel the uniform will be Summer Whites, Dungarees, or BDU's.
- c. When work uniforms are required in the classroom, they may be worn to any establishment on the post during working hours. **WORKING KHAKIS, DUNGAREES, ARE NOT ALLOWED OFF POST AT ANY TIME, EXCEPT WHEN TRAVELING TO AND FROM OFF POST QUARTERS.**
Khakis with ribbons may be worn on and off post. Only the "NAVY" ball cap may be worn with dungarees.

NOTE: Availability of Navy uniform articles is very limited at the Fort Leonard Wood Post Exchange.

- d. A reefer (authorized blue jacket, new style), peacoat, raincoat, or BDU jacket are the only authorized coats to be worn with any of the above uniforms at Fort Leonard Wood.
- e. All Navy personnel report with, and maintain, a complete and serviceable seabag, (as prescribed in Navy Uniform Regulations, NAVPERS 15665D). "C" School Students are required to bring at least five sets of presentable, clean Dungraees, or BDU's.
- f. Uniform articles NOT AUTHORIZED:
 1. Foul-Weather Jackets

2. Flight Jackets
3. Old-Style Blue Working Jackets
4. Command Ball Caps
5. Organizational Clothing

g. All students are required to bring appropriate Navy physical fitness training uniforms.

APPEARANCE: Appearance must meet or exceed Navy Standards.

“A” SCHOOL INFORMATION:

- a. REPORT/CHECK-IN INSTRUCTIONS: Equipment Operator and Engineering Aid “A” School students report to the Navy Quarterdeck, (573)596-0131 ext.6-0230, Bldg 1770 for berthing and check in.
- b. Equipment Operator students must report for training with a valid state drivers license. This prerequisite CAN NOT be waived.

“C” SCHOOL INFORMATION:

- a. QUOTA CONTROL: Disaster Preparedness Operations Specialist-BUPERS-401CD Course Information: (573) 596-0131 ext.3-7523 or DSN: 676-7523. Shipboard Chemical, Biological and Radiological Defense (CBR-D) Operations and Training Specialist-BUPERS-402DI, Course Information (573)596-0131 ext. 3-7522 or DSN: 676-7522. Military Police courses-BUPERS-405DF, Course Information: (573)596-0131 ext.3-7787 or DSN: 676-7787. Protective Services Training-Bupers-405DF, Course Information: (573)596-0131 ext. 6-1970 or DSN: 581-1970.
- b. MESSING AND BERTHING: Fort Leonard Wood operates an Information Center, (573) 596-0590, located to the right of the main gate where military police give directions, unit and activity locations, and phone numbers 24 hours a day. The Billeting Branch, 1-800-677-8356, in the Soldier Service Center, Building 470, is open 24 hours and coordinates billeting assignments. Daily rates: Quarters \$22.00, Messing is located in Bldg 1740 at a cost of \$8.00 a day, totaling \$30.00 per day. Payment of per diem is at 80% rate, however check payments are not received until the service member reaches their ultimate duty station. Fort Leonard Wood, MO is a geographically separated unit (GSU) away from it’s assigned personnel support detachment.

Due to a lack of local PSD and limited disbursing services at PERSUPPDET located in Millington, TN (5 hours driving distance); to prevent financial hardship, strongly recommend members have sufficient funds, \$250.00 is recommended, to defray cost incurred upon reporting. Strongly recommend that advances for per diem/travel be drawn prior to departure from transferring command.

NOTE: “C” School students berthing, messing, administrative and school facilities are NOT in close proximity to one another and it is recommended that POV or car rental authorization is included on orders. Transportation will be the responsibility of the student.

c. "C" SCHOOL REPORT/CHECK-IN INSTRUCTIONS:

- (1) All students report to Soldier Service Center, Bldg 470 for berthing (1-800-677-8356)
- (2) If a student intends to reenlist for benefits of SRB, a physical must be completed prior to arrival to this command. If a physical is not completed prior to arrival, the service member will be required to obliserv for the minimum activity area tour and reenlist at their next command.
- (3) Personnel reporting for Disaster Preparedness Operations Specialist (DPOS) and Shipboard Chemical, Biological and Radiological Defense (CBR-D) Operations and Training Specialist Courses must comply with the following:
 - (a) First day of training report by 0800 to Thurman Hall, General Instruction Facility (GIF) Bldg 3202, room 2124.
 - (b) If corrective lenses are required, student must bring eye glass (optical) inserts for MCU-P2 protective mask or be able to see 20/40 (near or distant) or better in one eye. CBR-D students failing to meet this requirement will not receive the NEC 4805
 - (c) Students reporting for instruction must meet the Physical Readiness Program standards IAW OPNAVINST 6110.1 series. Students failing to meet this requirement will be dropped from the course.
 - (d) Pregnant students are not allowed to attend the CBR-D or DPOS course due to the High-Risk training.
- (4) Personnel reporting for Military Police course must comply with the following:
 - (a) First day of training report by 0730 to Bldg 3202, room 2702.
 - (b) Students reporting for instruction must meet the Physical Readiness Program standards IAW OPNAVINST 6110.1 series. Students failing to meet this requirement will be dropped from the course.

**NAVAL CONSTRUCTION TRAINING CENTER, GULFPORT DETACHMENT
SHEPPARD AFB, TX 76311-2254**

General Information

ADDRESS:

Officer in Charge
366th TRS/NAVY
727 Missile Road
Sheppard AFB, TX 76311-2254

COMMUNICATION:

Working Hours: 0700-1600 Monday-Friday
COMM: (904) 676-7940/7537
FAX: (904) 676-7543
DSN: 736=XXXX
After Hours: COMM: (904) 676-2830

Transportation

Sheppard AFB, is located at Witchita Falls, TX approximately 120 miles northwest of Dallas, TX and approximately 120 mile south of Oklahoma City, OK.

Air - Sheppard AFB is served by Witchita Falls Municipal Airport by Delta and American Airlines. The Municipal Airport facility is located approximately 5 miles from Sheppard AFB with rental car agencies and taxis available.

Bus - Sheppard AFB is served by the Greyhound Busnetwork via Texas, New Mexico, Oklahoma (TNMO) Coaches..

Major Roadways - Sheppard AFB is served by U.S. highways 287/81 from Dallas (south), U.S. Highway 287 from Amarillo (west), and Interstate 44 from Oklahoma City (north).

Personnel Procedures

- a. Advanced or “C” School students who arrive during normal duty hours are directed to report to the Navy Detachment offices at Williams Hall, Bldg 1927, Room 83, located at 727 Missile Road, Sheppard AFB, Wichita Falls, TX 76311-2254. After duty hours report to the OOD on duty at the Navy Seabee Quarterdeck, Bldg 699 located at 707 “J” Avenue. Billeting is in the Sheppard Inn, Bldg 1600, located at 400”J” Avenue, telephone (904) 855-7370.
- b. “A” School students are directed to report to the Navy Seabee Quarterdeck, Bldg 699 at 707”J” Avenue, Shepard AFB, TX 76311-2254.
- c. Additional information about Sheppard AFB is available via the internet, at “webi.Sheppard.af.mil” and in Volume I of the CANTRAC.

Weather/Dress

You should bring all required uniform items with you. Most courses require a service dress uniform for graduation. The temperature varies greatly. JAN-FEB: 23-68⁰F (maybe snow); MAR-MAY: 35-80⁰F (lots of rain); JUN-AUG: 88-115⁰F; SEP-OCT 40-85⁰F (some rain); NOV-DEC; 30-70⁰F (maybe snow). The winter Uniforms are authorized from the first Monday in November to the first Monday in April and the Summer Uniforms are authorized from the first Monday in March to the first Monday in December. All personnel are expected to PT, so official Navy PT gear is required.

SECTION

I

CATALOG FOR CLASS A, C, AND CBVET COURSES

TABLE OF CONTENTS
SECTION ONE

	PAGE
RECORD of CHANGES	I-1-2
PROCEDURES APPLYING TO "A", "C1" AND CBVET SCHOOLS	I-1-3
NAVCONSTRACEN FORMAL SCHOOL SCHEDULES	I-1-4
BUILDER FORMAL COURSES	I-2-1
CONSTRUCTION ELECTRICIAN FORMAL COURSES	I-3-1
CONSTRUCTION MECHANIC FORMAL COURSES	I-4-1
ENGINEERING AID FORMAL COURSES	I-5-1
EQUIPMENT OPERATOR FORMAL COURSES	I-6-1
STEELWORKER FORMAL COURSES	I-7-1
UTILITIESMAN FORMAL COURSES	I-8-1
DISASTER RECOVERY AND SPECIAL COURSES	I-9-1

PROCEDURES APPLYING TO "A", "C1" AND "CBVET" SCHOOLS

1. Quota control for "A", "C1" and CBR-D courses are retained by the Chief of Naval Personnel, BUPERS-291, 401 & 402 respectively. Personnel requesting quotas for formal courses will submit these requests through their chain of command for approval and quota assignment. Quota Control for MPI and PST courses are retained by the MA detailer.
2. Personnel on orders to "A" School and Advanced Courses at NAVCONSTRACEN Port Hueneme should report aboard no later than 2400 on the day preceding the convening date. Personnel on orders to "A" School Courses at NAVCONSTRACEN Gulfport should report no later than one working day before the class convening date. Personnel on orders to Advance Courses at NAVCONSTRACEN Gulfport should report no later than the Friday before the class convening date. When reporting aboard, personnel must have in their possession the prescribed uniforms (to include hard hats and safety boots), and their health, dental, pay, and service records. Students attending these courses are on board to receive training and are not to be recalled by parent commands to stand watches, clean rifles, or attend to minor administrative problems. Any exception to this will be handled by a letter from the parent command to the Commanding Officer of the applicable NAVCONSTRACEN, with necessary justification.
3. CBVET Students check in at Building 1 Quarterdeck. Report to Building 314 for berthing. Muster Monday morning at 0700 with the Seabee Readiness Group.
4. All students will participate in physical readiness activities. All personnel shall wear navy blue/black shorts, brown "T" shirt and athletic shoes with white socks.
5. Personnel reporting for training in an obese/unfit status not meeting the policy goals set forth by OPNAVINST 6110.1, and Enlisted Transfer Manual, Chapter 7, (NAVPERS 15909G) may be refused training and returned to parent command at the discretion of the Commanding Officer.
6. Berthing and messing facilities are generally available for all military personnel. All enlisted personnel without dependents, assigned for duty under instruction, will utilize these facilities. Off-base berthing for civilian personnel is readily available, however reservations will have to be made in advance.
7. Personnel reporting for duty under instruction must have authority stated in their orders for any leave commencing upon completion of their course. Requests for leave that are not authorized in TAD orders, or for periods of leave exceeding the authorized period, will not be approved unless a bona fide emergency exists or approval is received from the student's parent command.
8. Academic disenrollments from formal courses will be effected through the action of an Academic Review Board.

NAVCONSTRACEN FORMAL SCHOOL SCHEDULES

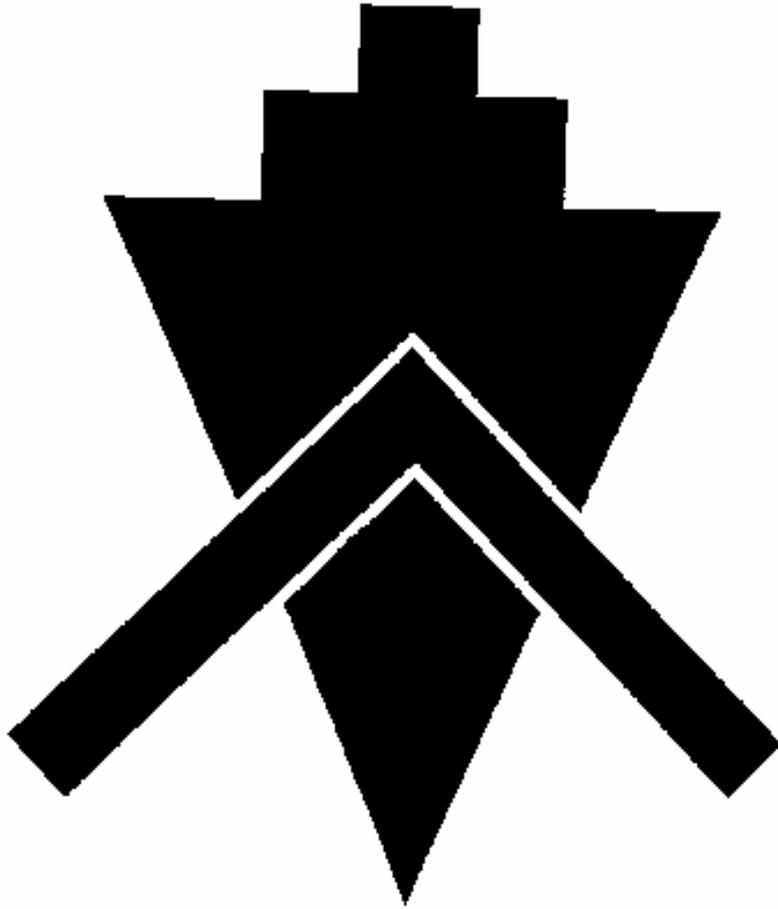
NAVCONSTRACEN, Port Hueneme, CA

Fiscal Year (FY) formal school schedules are published annually and distributed by NAVCONSTRACEN Port Hueneme Notice 1550.
Web Page: www.nt.cnet.navy.mil/nctcph

NAVCONSTRACEN, Gulfport, MS

Fiscal Year (FY) formal school schedules are published annually and distributed by NAVCONSTRACEN Gulfport Notice 1540.

Formal course schedules are also listed in the Catalog of Navy Training Courses NAVEDTRA 10500 Volume II (CANTRAC) including current and next fiscal year data.



BUILDER

BUILDER (BU) FORMAL COURSES

<u>CIN</u>	<u>NEC</u>	<u>TITLE</u>	<u>TAUGHT AT PAGE</u>
A-710-0010	NONE	INTERSERVICE BUILDER APPRENTICE (NAVY)	GP 2-2
A-710-0032	NA	INTERSERVICE BUILDER APPRENTICE (AIR FORCE)	GP 2-3
A-710-0033	NA	INTERSERVICE BUILDER APPRENTICE (ARMY)	GP 2-4
A-710-0011	5907	ADVANCED BUILDER	PH/GP 2-5
A-712-0010	5908	TOOL & EQUIPMENT MAINT. TECH	PH/GP 2-6
A-710-0022	5501	CONSTRUCTION INSPECTOR	PH/GP 2-7
A-710-0036	NONE	CONSTRUCTION BASIC VETERAN BUILDER, PHASE I	GP 2-9
A-710-0037	NONE	CONSTRUCTION BASIC VETERAN BUILDER, PHASE II	GP 2-10

CIN: A-710-0010

TITLE: BUILDER CLASS "A"

TAUGHT AT: NAVCONSTRACEN Gulfport, MS (CDP 6286)

LENGTH: 66 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 in applied mathematics; in the lower-division baccalaureate/associate degree category, 3 in construction materials, 4 in framing and exterior finish, 3 in interior finish, and 1 in technical mathematics. Credit is to be granted in either category, but not in both (5/00).

CONVENING INFORMATION: See CANTRAC-Volume II

PURPOSE: To provide basic technical knowledge and basic practical skills in preparation for immediate usefulness as Builders.

SCOPE: Use of builder tools, equipment and materials in manufacturing woodshop projects; erecting light frame structure, suspended ceiling tile, hot tar roofing, three tab composition shingles, concrete masonry structure, concrete forms, heavy timber bridge and framework for a pre-engineered building; installing, finishing drywall; preparing, installing door jambs with casing, baseboard, and molding; installing composition floor tile and ceramic tile; preparation and application of paint; mixing, transporting, placing and finishing concrete.

PREREQUISITES:

1. Selected CN, CA, CR, SN and FN with ASVAB composite AR+MC+AS=140
2. Vision correctable to 20/20 is required.
3. Have 60 months obligated service.

CLASS SIZE: Maximum:12 Minimum: 12

QUOTA CONTROL: ACDU USN: BUPERS 291 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: Designated BU striker

CIN: A-710-0032

TITLE: INTERSERVICE BUILDER APPRENTICE (AIR FORCE)

TAUGHT AT: NAVCONSTRACEN Gulfport, MS (CDP 621X)

LENGTH: 71 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 in applied mathematics; in the lower-division baccalaureate/associate degree category, 3 in construction materials, 4 in framing and exterior finish, 3 in interior finish, and 1 in technical mathematics. Credit is to be granted in either category, but not in both (5/00).

CONVENING INFORMATION: See CANTRAC-Volume II

PURPOSE: To provide basic technical knowledge and basic practical skills in preparation for immediate usefulness as a Structural Apprentice.

SCOPE: Use of builder tools, equipment and materials in manufacturing woodshop projects; erecting light frame structure, suspended ceiling tile, hot tar roofing, three tab composition shingles, concrete masonry structure, concrete forms, heavy timber bridge and framework for a pre-engineered building; installing, finishing drywall; preparing, installing door jambs with casing, baseboard, and molding; installing composition floor tile and ceramic tile; preparation and application of paint; mixing, transporting, placing and finishing concrete.

PREREQUISITES:

1. Possess minimum ASVAB score MK=51
2. Vision correctable to 20/20
3. Normal color perception
4. Freedom from vertigo
5. No hearing impairment
6. Be able to operate government vehicle
7. Be able to lift 70 Lbs
8. Have 48 months obligated service.

CLASS SIZE: Maximum: 12 Minimum: 12

QUOTA CONTROL: AFPC/AFRES/ANG

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

AIR FORCE SKILL: Structural Apprentice 3 level

CIN: A-710-0033

TITLE: INTERSERVICE BUILDER APPRENTICE (ARMY)

TAUGHT AT: NAVCONSTRACEN Gulfport, MS (CDP 621Y)

LENGTH: 46 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 in applied mathematics; in the lower-division baccalaureate/associate degree category, 3 in construction materials, 4 in framing and exterior finish, and 1 in technical mathematics. Credit is to be granted in either category, but not in both (5/00).

CONVENING INFORMATION: See CANTRAC-Volume II

PURPOSE: To provide basic technical knowledge and basic practical skills in preparation for immediate usefulness as

SCOPE: Use of builder tools, equipment and materials in manufacturing woodshop projects; erecting light frame structure, hot tar roofing, three tab composition shingles, concrete masonry structure, concrete forms, heavy timber bridge and framework for a pre-engineered building; installing, mixing, transporting, placing and finishing concrete.

PREREQUISITES:

1. Possess minimum ASVAB score $GS+AS+MK+EI=90$
2. Vision correctable to 20/20
3. Normal color perception
4. Freedom from vertigo
5. Have 36 months obligated service.

CLASS SIZE: Maximum:12 Minimum: 12

QUOTA CONTROL:

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

ARMY SKILL:

CIN: A-710-0011

TITLE: ADVANCED BUILDER

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP4026)
NAVCONSTRACEN Gulfport, MS (CDP 541X)

LENGTH: 68 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 6 semester hours in building construction practices, 1 in project management, 4 in materials and methods of construction, and 1 in estimating and planning (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide advanced technical knowledge and skills and principles of job management necessary to qualify for assignment as a trade crew leader on a construction project.

SCOPE: Advanced instruction in mixing, placing, finishing, curing and testing concrete. Form construction; masonry construction; foundation construction; framing of floors, walls, stairs and roofs; installation of interior and exterior trims; cabinetmaking, preparation of surfaces and painting; application and maintenance of hot and cold roofing; erection of water front, heavy timber and advance base structures; job planning; estimating and material take off; construction safety; and techniques of foremanship.

PREREQUISITES:

1. Qualified BU, E5-E6.
2. Must be career oriented, meet obliserve requirements, and endorsed/screened by unit commander.
3. Completion of Mathematics Volume I, current edition, is highly recommended.

CLASS SIZE: Maximum: 16 Minimum: 8

QUOTA CONTROL: ACDU USN: BUPERS 401 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5907

CIN: A-712-0010

TITLE: TOOL AND EQUIPMENT MAINTENANCE TECHNICIAN

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 346E)
NAVCONSTRACEN Gulfport, MS (CDP 351P)

LENGTH: 50 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in shop equipment and tool repair and maintenance and 2 in shop safety (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide advanced technical training in the installation, repair and maintenance of construction tools and equipment.

SCOPE: To provide technical training in the installation, repair and maintenance of carpenter shop equipment, blade reconditioning equipment, portable power and hand tools. To provide instruction in procedures for establishing preventive maintenance schedules, set-up and maintenance of manufacturer's and technical file, of recommended maintenance and operating procedures for construction battalion central tool rooms.

PREREQUISITES:

1. BU, SW, CM, EA, EO, UT, CE, E5-E6 .

CLASS SIZE: Maximum:PH 8 Minimum: PH 4
 GP 7 GP 4

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5908

CIN: A-710-0022

TITLE: CONSTRUCTION INSPECTOR

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 365V)
NAVCONSTRACEN Gulfport, MS (CDP 366X)

LENGTH: 54 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in codes and specifications, 3 in methods of construction, 3 in materials of construction, and 3 in mechanical/electrical equipment in buildings (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide Occupational Field 13 Petty Officer, Chief Petty Officer and Navy civilian personnel with the knowledge and skill factors to review and analyze project construction drawings and specifications and prepare a Construction Inspection Plan including a checklist of inspection points during critical phases of construction and installation. Verify that all materials and/or equipment ordered meet specifications and verify their conformance to those specifications upon receipt. Inspect all phases of construction and installation, including civil, architectural and structural, electrical and mechanical, for compliance with drawings, specification and acceptable safe operating, installation and construction practices. Coordinate and observe specified tests on materials, electrical and mechanical systems (including operational tests on installed equipment) and ensures the contractor performs quality control tests on such items as sub-base materials, aggregates and cementitious binders and on related mixes before, during and after installation. Upon receipt of all test results, the inspector analyzes the results for compliance with the specifications, prepare logs, records and reports on all inspections and tests.

SCOPE: Construction Administration - Details duties and responsibilities of the construction inspector throughout the various types of Navy inspection organizations, such as ROICC, public works, naval construction forces. Items dealt with include: Contract management, planning for contract compliance and safety, turnover and acceptance of work, damages, claims, labor standards and standards of conduct.

Sitework - Details duties and responsibilities of the construction inspector as they pertain to site control surveys and preparation of sub-base materials for construction, installation of sub-grade utilities, soils stabilization, flexible and rigid pavements and landscaping.

Structural/Architectural - Details duties and responsibilities of the construction inspector in the acceptance of materials and the inspection of products covering concrete, masonry, structural steel, light ad heavy wood products, roofing, hardware, interior and exterior finishes, and specialty items.

Electrical - Details duties and responsibilities of the construction inspector in the acceptance of materials and the inspection of products concerning primary power distribution, interior electrical services and communications.

Mechanical - Details duties and responsibilities of the construction inspector in the acceptance of materials and the inspection of products concerning plumbing - both portable service and waste collection, refrigeration and HVAC systems.

REREQUISITES:

1. Occupational Field 13 personnel (except CM) E6 and above.

CLASS SIZE:	Gulfport	Maximum: 12	Minimum: 6
	Port Hueneme	Maximum: 15	Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401 Others; See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5501

CIN: A-710-0036

TITLE: CONSTRUCTION BASIC VETERAN BUILDER, PHASE I

TAUGHT AT: NAVCONSTRACEN Gulfport, MS (CDP 3299)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in introductory construction methods and materials after completion of both Phase I and Phase II (3/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training in the use of hand, power and powder actuated tools, basic woodworking operations, concrete and masonry construction, and light frame construction. Upon completion of this course the apprentice Builder is prepared for Phase II of the program.

SCOPE: The course content will include the following, in accordance with approved technical manuals; use of hand, power and powder actuated tools, basic wood working skills using machinery, concrete forming, reinforcement, placement, and finishing, CMU and masonry construction, light wood frame construction including floor, wall, stair and roof framing.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 100 through 108 must be completed and signed prior to attending this training.

CLASS SIZE Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: None

CIN: A-710-0037

TITLE: CONSTRUCTION BASIC VETERAN BUILDER, PHASE II

TAUGHT AT: NAVCONSTRACEN Gulfport, MS (CDP 329A)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in introductory construction methods and materials after completion of both Phase I and Phase II (3/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training in the use of hand, and power tools, exterior finish carpentry, composition roof shingles, pre-engineered buildings, interior finish carpentry, drywall, painting/preservation, doors and windows, suspended ceilings, floor and wall tile. Upon completion of this course the apprentice Builder is prepared for assignment, under supervision, at Construction Battalions or other Naval activities.

SCOPE: The course content will include the following, in accordance with approved technical manuals; use of hand and power tools, exterior finish carpentry, composition roof shingles, pre-engineered buildings, interior finish carpentry, drywall construction, painting operations, painting operations, door and window installation, suspended ceiling installations, wall and floor tile installation, interior trim, built-up roofing.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 109 through 120 must be completed and signed prior to attending this training.

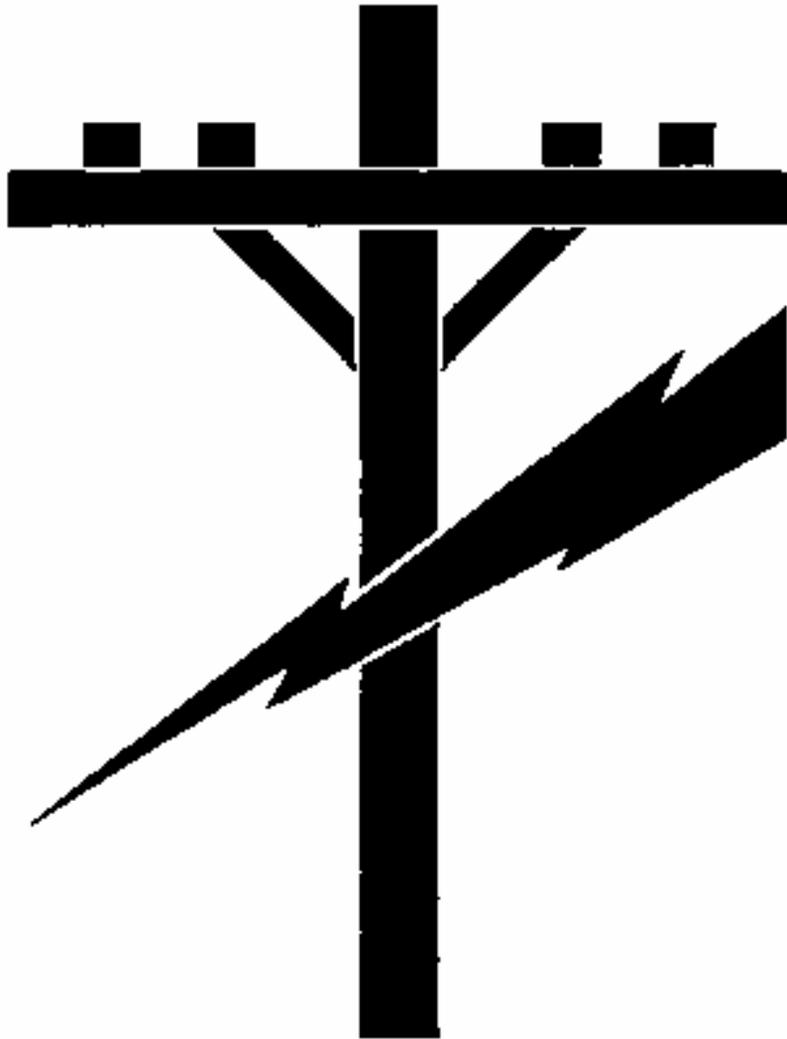
CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: None



CONSTRUCTION
ELECTRICIAN

CONSTRUCTION ELECTRICIAN (CE) FORMAL COURSES

<u>CIN</u>	<u>NEC</u>		<u>TAUGHT AT</u>	<u>PAGE</u>
A-721-0018	NONE	CONSTRUCTION ELECTRICIAN CLASS "A"	DET SHP	3-2
A-721-0019	5635	ADVANCED CONSTRUCTION ELECTRICIAN	PH/GP	3-3
A-721-0023	5644	CONSTRUCTION ELECTRICIAN POWER AND COMMUNICATIONS CABLE SPLICING	GP	3-4
A-721-0026	NONE	CONSTRUCTION BASIC VETERAN, CONSTRUCTION ELECTRICIAN, PHASE I	PH	3-5
A-721-0027	NONE	CONSTRUCTION BASIC VETERAN, CONSTRUCTION ELECTRICIAN, PHASE II	PH	3-6
A-622-0012	5642	DIGITAL SWITCHING SYSTEM TECHNICIAN	DET SHP	3-7

CIN: A-721-0018

TITLE: CONSTRUCTION ELECTRICIAN CLASS "A"

TAUGHT AT: NAVCONSTRACEN, DET SHEPPARD AFB, TX (CDP 619C)

LENGTH: 99 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 1 semester hour DC circuits, 3 in electronic power distribution systems, 3 in residential wiring, 2 in AC circuits, and 2 in electric motor control (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide basic technical knowledge and basic practical skills in preparing for immediate usefulness as a Construction Electrician.

SCOPE: Trains Navy personnel in electrical safety, pole climbing, electrical fundamentals, mathematical fundamentals, national electric code, blueprint reading, electrical grounding theory and application, substation maintenance, construction and maintenance of overhead and underground distribution systems, installation and maintenance of interior electrical systems including special purpose systems, transformers, electrical services, distribution panels, protective devices, conduit and branch circuits, motors and motor controls, generator operations.

PREREQUISITES:

1. Selected CR, CA, CN, SN and FN with ASVAB Composite AR+MK+EI+GS=200.
2. Vision correctable to 20/20 with normal color perception is required.
3. Construction Electricians are required by occupational standards to be physically able to climb wooden poles with linemans gaffs, lift with both legs, run for conditioning of legs, climb ladders, be free of the fear of height and able to work from these heights while belted off.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: ACDU USN: BUPERS 291 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Officer in Charge, Detachment Sheppard AFB, TX

NAVY SKILL: Designated CE striker

CIN: A-721-0019

TITLE: ADVANCED CONSTRUCTION ELECTRICIAN

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4023)
NAVCONSTRACEN Gulfport, MS (CDP 466Y)

LENGTH: 89 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 1 semester hour in DC circuits, 2 in AC circuits, 3 in basic electronics, 3 in electrical hour in DC circuits, 2 in AC circuits, 3 in basic electronics, 3 in electrical motor controls, and 3 in electrical construction estimating (7/02).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide the advanced technical skills and principles of job management necessary to qualify for assignment as a trade crew leader on a construction project.

SCOPE: Advanced instruction in principles of electrical theory: street and airfield lighting systems; electrical transmission systems; repair of electrical motors and generators; operation and maintenance of electrical power plants: solid state fundamentals: interoffice communication systems; telephone systems; installation and design of interior wiring and lighting systems; fire alarm system installation; motor controller installation; major/minor appliance repair: CBCM computer system. Students must be physically capable of climbing wooden poles with linemans gaffs, lift with both legs, run for conditioning of legs, climb ladders, be free of the fear of height and able to stand on stepped poles for long periods of time in accordance with occupational standards.

NOTE: This course is designated a high risk course by CNETINST 1500.20 series.

PREREQUISITES:

1. Qualified CE2 and above.
2. Must be career oriented, meet obliterate requirements, and endorsed/screened by unit commander.
3. Completion of NEETS MODS 1,2,3,5, and 7, NAVEDTRA 172-07-00-82 and Mathematics Volume I, current edition.
4. CE Advanced School students must attend either CE "A" or CE CB VET courses and receive initial climbing qualification.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL:ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme,CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5635

CIN: A-721-0023

TITLE: CONSTRUCTION ELECTRICIAN - POWER AND COMMUNICATIONS CABLE SPLICING

TAUGHT AT: NAVCONSTRACEN Gulfport, MS (CDP 4069)

LENGTH: 61 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 6 semester hours electrical power and communications cable maintenance (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide advanced technical knowledge and skills required for splicing power and communications cable.

SCOPE: Advanced instructions on the techniques and procedures for joining power cable employing straight and branched splices; termination and dead ends, testing and fault finding of cable system. Splice underground and aerial communications cable including cable terminations. Construct bridge and straight splices in lead and plastic sheathed communication cable. Locate faults using appropriate equipment, techniques and safety precautions. Splice and terminate fiber optic cable with mechanical and fusion splices. Use OTDR and power meter for testing and fault finding.

PERQUISITES:

1. CE3 through CE1.
2. Prior completion of A-721-0019 and attainment of NEC 5635 are highly desirable but not mandatory.

CLASS SIZE: Maximum:12 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5644

CIN: A-721-0026

TITLE: CONSTRUCTION BASIC VETERAN CONSTRUCTION ELECTRICIAN, PHASE I

TAUGHT AT: NAVCONSTRACEN PORT HUENEME, CA (CDP 329K)

LENGTH: 12 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training for power pole climbing and installation of power distribution systems. Upon successful completion of this training the apprentice electrician will have completed his practical application phases of the CB Vet program for Qualification Standards 200 through 204.

SCOPE: The course content will include the following, in accordance with approved technical manuals; certify as a pole climber, operate a line construction maintenance vehicle, installation of power distribution system components.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 200 through 204 must be completed and signed prior to attending this training.

CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA

NAVY SKILL: None

CIN: A-721-0027

TITLE: CONSTRUCTION BASIC VETERAN CONSTRUCTION ELECTRICIAN, PHASE II

TAUGHT AT: NAVCONSTRACEN PORT HUENEME, CA (CDP 329S)

LENGTH: 12 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training for maintaining power distribution systems, airfield lighting, installation of interior wiring systems, motors and controllers and operation of mobile generators. Upon successful completion of this training the apprentice electrician will have completed his practical application phases of the CB Vet program for Qualification Standards 205 through 209.

SCOPE: The course content will include the following, in accordance with approved technical manuals; maintain power distribution systems, maintain airfield lighting, install interior distribution systems and components, install and maintain motors and controllers, operate a MEP generator.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 205 through 209 must be completed and signed along with all practical application qualification standards in sections 201 (pole climbing) and 203 (intro to distribution systems) prior to attending this training.

CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA

NAVY SKILL: None

CIN: A-622-0006

TITLE: DIGITAL SWITCHING SYSTEM TECHNICIAN

TAUGHT AT: NAVCONSTRACEN, DET SHEPPARD AFB, TX (CDP 626H)

LENGTH: 108 days

RECOMMENDED CREDIT: NEC 5642

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: Umbrella Course for NEC 5642

SCOPE: Consist of two separate courses: A-622-0006, TELEPHONE SYSTEMS, USAF #J3ABR2E633 002. A-622-0005, FIBER OPTIC MAINTENANCE, USAF # J3AZR2E652 007

PREREQUISITES:

Paygrade E5 – E7

Rate: CE, IC, ET

CLASS SIZE: Navy allotted one seat per class, 15 convening's yearly, see CANTRAC Volume II for schedule.

QUOTA CONTROL: ACDU USN: BUPERS 291 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO: Officer in Charge, Detachment Sheppard AFB, TX

NAVY SKILL: NEC 5642



CONSTRUCTION
MECHANIC

CONSTRUCTION MECHANIC (CM) FORMAL COURSES

<u>CIN</u>	<u>NEC</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-610-0022	NONE	CONSTRUCTION MECHANIC CLASS "A"	PH	4-2
A-610-0023	NA	CONSTRUCTION MECHANIC CLASS "A"	PH	4-3
A-610-0011	5805	ADVANCED CONSTRUCTION MECHANIC	PH/GP	4-4
A-610-0024	NONE	CONSTRUCTION BASIC VETERAN CONSTRUCTION MECHANIC, PHASE I	PH	4-5
A-610-0025	NONE	CONSTRUCTION BASIC VETERAN CONSTRUCTION MECHANIC, PHASE II	PH	4-6

CIN: A-610-0022

TITLE: CONSTRUCTION MECHANIC CLASS "A" (NAVY)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 6149)

LENGTH: 89 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems and 3 in hydraulic brake service (3/91).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide basic technical knowledge and skills in preparation for immediate usefulness in maintenance, construction equipment.

SCOPE: Instruction in the proper use and care of tools; theory, troubleshooting and tune-up of gasoline, diesel engines; automotive power trains and construction equipment power trains theory and analysis of electrical systems.

PREREQUISITES:

1. ASVAB Composite AR+MC+AS=158.
2. Candidates should be volunteers for Occupational Field 13.
3. Vision correctable to 20/20 is required.

CLASS SIZE: Maximum: 24 Minimum: 12

QUOTA CONTROL: ACDU USN: BUPERS 291: OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA

NAVY SKILL: Designated CM Striker

CIN: A-610-0023

TITLE: CONSTRUCTION MECHANIC CLASS "A" (AIR FORCE)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP622X)

LENGTH: 68 days

RECOMMENDED CREDIT: : In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in automotive electrical systems and 3 in hydraulic brake service (3/91).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide basic technical knowledge and skills in preparation for immediate usefulness in maintenance, construction equipment.

SCOPE: Instruction in the proper use and care of tools; theory, troubleshooting and tune-up of gasoline, diesel engines; automotive power trains and construction equipment power trains theory and analysis of electrical systems.

PREREQUISITES:

1. Aptitude: 2T3X1=44, 2T3X2A=38, 2T3X2B=38, 2T3X4=44
2. Physical Profile: 333233

CLASS SIZE Maximum:24 Minimum: 12

QUOTA CONTROL: HQ USAF/DPRS

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA

CIN: A-610-0011

TITLE: ADVANCED CONSTRUCTION MECHANIC

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4025)
NAVCONSTRACEN Gulfport, MS (CDP 460A)

LENGTH: 89 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in engine performance (tune-up), 3 in engine overhaul, 3 in automotive electrical systems, 3 in suspension and steering systems, 3 in automatic transmission reconditioning, 3 in manual transmission and drive axle, and 3 in diesel fuel injection systems (3/91).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide advanced technical skills and principles of job management necessary to qualify for assignment as a shop foreman.

SCOPE: Instruction in Troubleshooting, tune-up and maintenance of gasoline, diesel engines: automotive and construction equipment power train, chassis and component assemblies. This includes valve and cylinder reconditioning testing and analysis of electrical and fuel injection systems while employing appropriate test equipment. Instruction in the principles and techniques of foremanship.

PREREQUISITES:

1. Qualified CM2 and above.
2. Must be career oriented, meet obliserve requirements, and endorsed/screened by unit commander.
3. Compliance with TRANSMAN Chapter 7 is mandatory.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 291 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5805

CIN: A-610-0024

TITLE: CONSTRUCTION BASIC VETERAN CONSTRUCTION MECHANIC, PHASE I

TAUGHT AT: NAVCONSTRACEN PORT HUENEME, CA (CDP 328S)

LENGTH: 12 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide apprentice level training in maintenance and isolating malfunctions on military and commercial vehicles to Naval Reserve personnel on internal combustion engines and related components (gas & diesel) steering and suspension, power train, hydraulics and brake systems.

SCOPE: Develop skills in maintenance and troubleshooting of military and commercial vehicles.

PREREQUISITES:

1. ASVAB 5/6/7 WK+MC+SI=150, 8/9/10/11/12/13/14/J1
VE+MC+AS=150, GCT+MEC=100
2. Be volunteers
3. Vision correctable to 20/20
4. 60 months obligated service

CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Huene me, CA

NAVY SKILL: None

CIN: A-610-0025

TITLE: CONSTRUCTION BASIC VETERAN CONSTRUCTION MECHANIC, PHASE II

TAUGHT AT: NAVCONSTRACEN PORT HUENEME, CA (CDP 3296)

LENGTH: 12 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide apprentice level training in maintenance and isolating malfunctions on military and commercial vehicles to Naval Reserve personnel on internal combustion engines and related components (gas), steering and suspension, and power trains.

SCOPE: Develop skills in maintenance and troubleshooting of military and commercial vehicles.

PREREQUISITES:

1. ASVAB 5/6/7 WK+MC+SI=150, 8/9/10/11/12/13/14/J1
VE+MC+AS=150, GCT+MEC=100
2. Be volunteers
3. Vision correctable to 20/20
4. 60 months obligated service

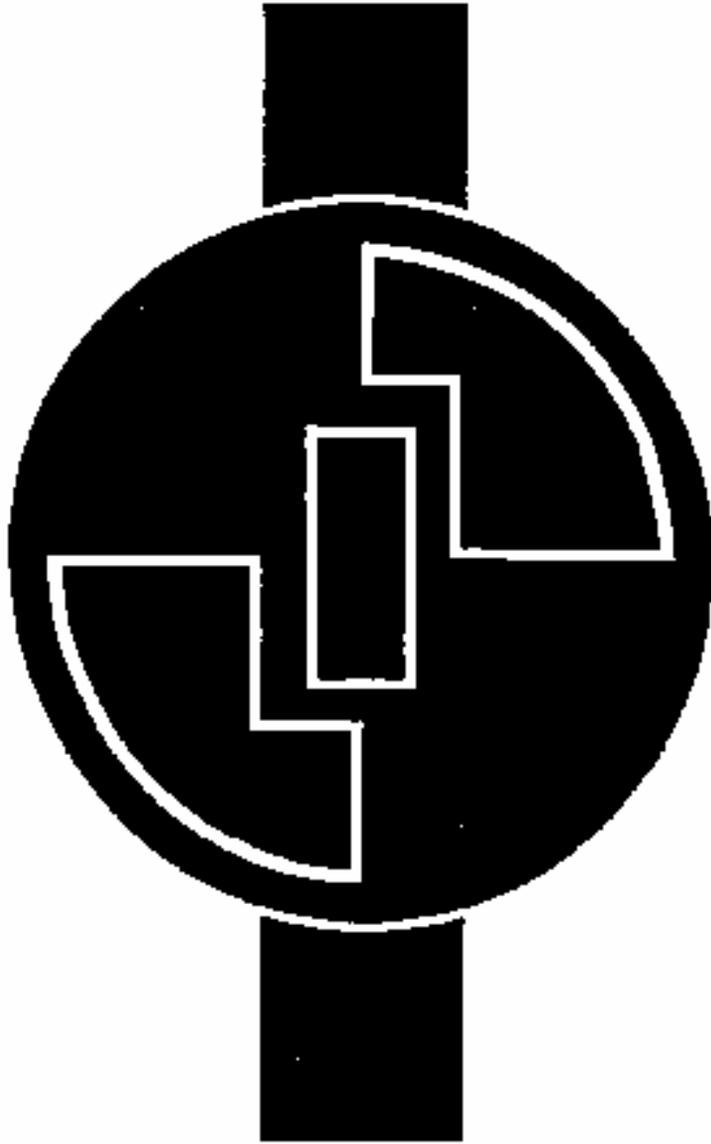
CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA

NAVY SKILL: None



ENGINEERING
AID

ENGINEERING AID (EA) FORMAL COURSES

<u>CIN</u>	<u>NEC</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-412-0010	NONE	ENGINEERING AID CLASS "A"	FTLW	5-2
A-412-0015	5503	ADVANCE ENGINEER AID	PH/GP	5-3
A-412-0012	5915	CONSTRUCTION PLANNING & ESTIMATING SPECIALIST	PH/GP	5-4

CIN: A-412-0010

TITLE: ENGINEERING AID CLASS A

TAUGHT AT: NAVCONSTRACEN, DET FORT LEONARD WOOD, MO (CDP 619A)

LENGTH: 107 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 2 semester hours in soils testing, 1 in concrete testing, 3 in computer-aided drafting, and 3 in surveying. Army and Marine students earn an additional 3 semester hours in advanced surveying (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide basic knowledge and skills in preparation for immediate usefulness as Engineering Aid Striker.

SCOPE: Construction surveying using conventional equipment, and the automated survey instruments for military construction to include: project mapping operations, construction support surveys, road operations, road construction, and building/utility layout surveys. Conventional and Computer Aided Drafting (CAD) to include: applied engineering graphics, architectural, and structural. Use soils, of concrete test sets for obtaining information on materials used for site evaluation, design, construction, and quality control of military construction.

PREREQUISITES:

1. Selected CN, CA, CR, SN, and FN with ASVAB Composite AR+2MK+GS=210.
2. Candidates must have credit in a course in Trigonometry and should be volunteers for Occupational Field 13.
3. Vision correctable desirable.

CLASS SIZE: Maximum: 2

QUOTA CONTROL: ACDU USN: BUPERS 291 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Officer in Charge: Detachment Fort Leonard Wood, MO

NAVY SKILL: Designated EA striker

CIN: A-412-0015

TITLE: ADVANCED ENGINEERING AID

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 350X)
NAVCONSTRACEN Gulfport, MS (CDP 350N)

LENGTH: 89 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 1 semester hour in technical mathematics, 3 in applied structural design (wood, steel, concrete), 1 in applied mechanical-electrical building equipment design, 2 in planning and estimating, 2 in construction surveying, and 3 in applied soil mechanics (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide the advanced technical skills and principles of job management necessary to qualify for assignment as a trade crew leader on a construction project.

SCOPE: Advanced and supervisory instruction in the four major areas of EA rating. CONSTRUCTION DESIGN/DRAFTING: Familiarization of engineering terms and design computation such as: load and load capacity determination of a structural member, reinforced concrete design, sanitary and plumbing design, HVAC duct sizing and heat loss/gain computations, illumination and electrical design. SURVEYING: Fundamentals of triangulation and field astronomy, building and route layout and surveying, drainage and airfield design, topographic surveying and mapping. PLANNING, ESTIMATING AND SCHEDULING: Material, labor and equipment estimating with emphasis on construction scheduling, production control, resource management, and progress reporting. QUALITY CONTROL: Site determination for construction through soils exploration, field and laboratory testing of soils, aggregates, concrete and asphalt and design of concrete and asphalt mixes based on ASTM standards. Field inspection of construction projects.

PREREQUISITES:

1. "A" school graduate or pass pre test.
2. Qualified EA2 and above.
3. Must be career oriented, meet obliserve requirements, and endorsed/screened by unit commander.
4. Completion of Mathematics Volume I, current edition, is highly recommended.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5503

CIN: A-412-0012

TITLE: CONSTRUCTION PLANNING AND ESTIMATING SPECIALIST

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 3140)
NAVCONSTRACEN Gulfport, MS (CDP 350Z)

LENGTH: 68 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 4 semester hours in construction estimating and 1 in project planning/scheduling; in the upper-division baccalaureate category, 1 semester hour in computer assisted estimating and scheduling (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide specific technical knowledge and skills required of planners and estimators within the Naval Construction Force.

SCOPE: To provide selected personnel with the knowledge and skills necessary to plan, estimate, schedule, and report on construction projects at existing Naval bases, advanced bases and selected off-base sites during peacetime and contingency operations in accordance with the Seabee Planner's and Estimator's Handbook, NAVFAC P-405 and CBCM.

PREREQUISITES:

1. BU, CE, EO, SW and UT ratings in pay grades E-5 through E-7.
2. Completion of Mathematics Vol.1, current edition is highly recommended.

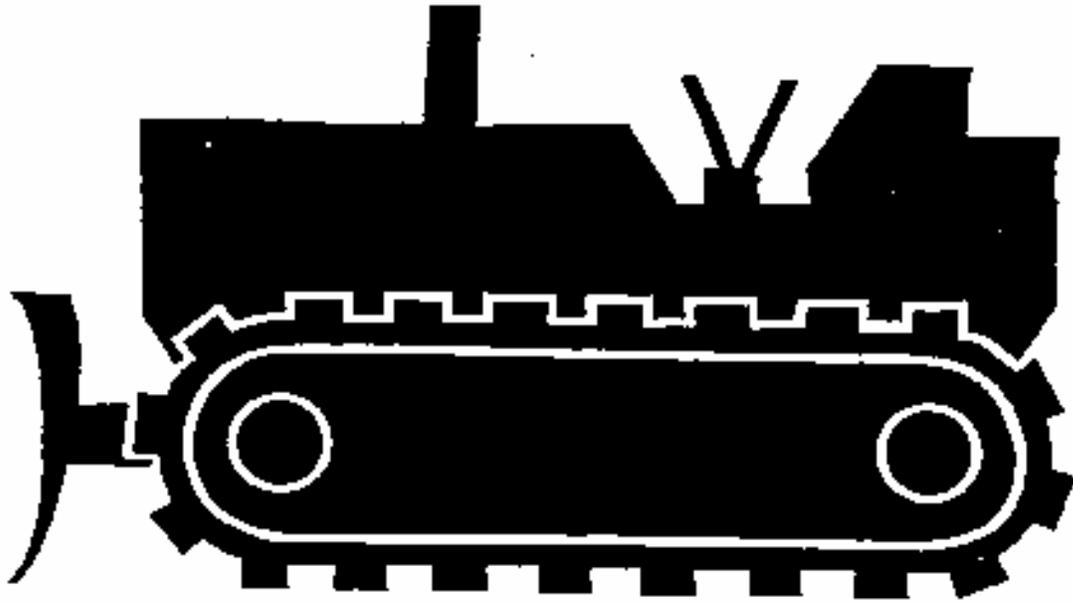
CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5915



EQUIPMENT
OPERATOR

EQUIPMENT OPERATOR (EO) FORMAL COURSES

<u>CIN</u>	<u>NEC</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-730-0010	NONE	EQUIPMENT OPERATOR CLASS "A"	FTLW	6-2
A-730-0011	5710	ADVANCED EQUIPMENT OPERATOR	PH/GP	6-3
A-730-0014	5707	WATER WELL DRILLING & DEVELOPMENT TECHNICIAN	NCTU CL	6-4
A-730-0015	5707	WATER WELL DRILLING TECHNICIAN RECERTIFICATION	NCTU CL	6-5
A-730-0019	5708	BLASTING AND QUARRY OPERATIONS SPECIALIST	NCTU CL	6-6
A-730-0021	5708	BLASTER RECERTIFICATION	NCTU CL	6-7
A-730-0003	NONE	CONSTRUCTION BASIC VETERAN EQUIPMENT OPERATOR, PHASE I	GP	6-8
A-730-0004	NONE	CONSTRUCTION BASIC VETERAN EQUIPMENT OPERATOR, PHASE II	GP	6-9

CIN: A-730-0010

TITLE: EQUIPMENT OPERATOR CLASS "A"

TAUGHT AT: NAVCONSTRACEN, DET FORT LEONARD WOOD, MO. (CDP 619D)

LENGTH: 89 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 1 semester hour in construction sitework, 8 in heavy construction equipment operation, and 3 in construction equipment maintenance (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide basic technical knowledge and basic practical skills in preparation for immediate usefulness as Equipment Operators.

SCOPE: Operate and perform operator's maintenance on the following: automotive vehicles through 15 ton, tractor trailer, dump trucks through 15 ton, front-end loaders, graders, crawler tractor, scrapers, backhoes, air compressors, rollers, rough terrain forklifts, and identify basic grade work nomenclature.

PREREQUISITES:

1. Selected CR, CA, CN, SN, and FN with ASVAB Composite AR+MC+AS=140
2. Vision correctable to 20/20 is required. Must be able to distinguish red, green and yellow colors, regardless of position, and have normal stereoscopic vision.
3. Possess a valid State Drivers License.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 291; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Officer in Charge: Navy Detachment Fort Leonard Wood, MO

NAVY SKILL: Designated EO striker

CIN: A-730-0011

TITLE: ADVANCED EQUIPMENT OPERATOR

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4024)
NAVCONSTRACEN Gulfport, MS (CDP 466X)

LENGTH: 89 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 6 semester hours in supervision, planning, and estimating in highway construction (6/91).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide the advanced technical skills and principles of job management necessary to qualify for assignment as a trade crew leader on a construction project.

SCOPE: Principles and techniques of mathematics related to earthwork and equipment production effectiveness, advanced principles of earthwork; advanced principles of paving; techniques of increasing production rate; operation, adjustment, and servicing of asphalt distributors; pavers; cranes with attachments: road rollers; and principles and techniques of foremanship.

NOTE: This course is designated a high risk course by CNETINST 1500.20 series.

PREREQUISITES:

1. Qualified E0, E5- E6.
2. Must be career oriented, meet obliserve requirements, and endorsed/screened by unit commander.

CLASS SIZE: Maximum: 12 Minimum: 8

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 5710

CIN: A-730-0014

TITLE: WATER WELL DRILLING AND DEVELOPMENT TECHNICIAN

TAUGHT AT: NCTU China Lake (CDP747R)

LENGTH: 26 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 3 semester hours in water well drilling (9/02).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide technical knowledge of operation and maintenance skills essential to effective water well drilling operations.

SCOPE: Site selection and development of water supplies; operation and maintenance of rotary and percussion drilling machines and equipment; testing of wells purity, yield and draw down.

PREREQUISITES:

MUST BE A VOLUNTEER, Pay grades when assigned to well teams, E5-E7 and rate CM, EO, SW, UT

CLASS SIZE: Maximum: 15 Minimum: 9

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

OIC, Naval Construction Training Unit, NAWS, China Lake

NAVY SKILL: NEC 5707

CIN: A-730-0015

TITLE: WATER WELL DRILLING TECHNICIAN RECERTIFICATION

TAUGHT AT: NCTU, China Lake (CDP 747S)

LENGTH: 5 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To recertify senior Navy enlisted who currently hold NEC 5707. This course will refresh skills in determining ground water locations, operating and maintaining well drilling equipment, well construction, well completion, and pump systems. This course will reinforce the students ability to perform in supervisory (Tower Leader) and crewmember (Driller, Derrick Hand, and Worker/Oiler/Mud/Maintenance (WORMM)) task associated with well drilling operations in both peacetime and contingency operations.

SCOPE: This course includes the following in accordance with approved technical publications:

- Operational Risk Management
- Ground Water Location
- Drilling Equipment Operation
- Well Drilling Methods
- Water Well Design
- Well Development
- Pump Installation

PREREQUISITES:

Paygrades E-5 through E-8 in the EO,UT, SW and CM ratings assigned to a well drilling team. Paygrade E5-E8 and NEC 5707.

CLASS SIZE: Maximum: 15 Minimum: 9

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

OIC, Naval Construction Training Unit, NAWS, China Lake

NAVY SKILL: NEC 5707

CIN: A-730-0019

TITLE: BLASTING AND QUARRY OPERATIONS

TAUGHT AT: NCTU, China Lake (CDP 747T)

LENGTH: 33 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 semester hours in basic geology and 3 in quarry management (6/91).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide specific technical knowledge and skills essential for supervisors of quarry and blasting operations and for safety using explosives and blasting equipment.

SCOPE: Types and uses of explosive and blasting equipment; operation and maintenance of rock drilling equipment; drilling for and placing of charges; safety precautions used in blasting; detonating procedures; construction blasting; layout, development, and operation of quarries.

PREREQUISITES:

MUST BE A VOLUNTEER, Latest check-in time is end of day one. Students must bring their medical records, and have the following medical requirements completed; Hearing Conservation Program, in accordance with OPNAVINST 5100.23B Baseline Hearing Test (Section 18105B) must be in the medical record. Respiratory Protection Program, (Chapter 15, Section 15505B), must be in the medical record. Hazard: Nuisance dust exposure during rock drilling operations. Respirator to be used: North Dust/Mist Air Purifying Respirator.

CLASS SIZE: Maximum: 12 Minimum: 8

QUOTA CONTROL: ADCU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

OIC, Naval Construction Training Unit, NAWS, China Lake

NAVY SKILL: NEC 5708

CIN: A-730-0021

TITLE: BLASTER RECERTIFICATION

TAUGHT AT: NCTU, China Lake (CDP 747U)

LENGTH: 5 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide annual recertification of personnel for NEC EO 5708.

SCOPE: Review and recertification of principles of blasting require for NEC 5708.

NOTE: This course is designated a high risk course by CNETINST 1500 series. Training is conducted away from the Naval Construction Battalion Center, CA. TAD orders must include allowance for per diem.

PREREQUISITES:

1. E02 through EOC. Graduates of Course A-730-0019 having previous held NEC EO 5708.
2. Possess a current doctor's certificate (less than one year since issued) physical requirements are identical to those stated under course A-730-0019, Blaster and Quarry Operations (Class C1).

CLASS SIZE: Maximum: 12 Minimum: 8

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

OIC, Naval Construction Training Unit, NAWS, China Lake

NAVY SKILL: Maintenance of NEC 5708

CIN: A-730-0003

TITLE: CONSTRUCTION BASIC VETERAN EQUIPMENT OPERATOR, PHASE I

TAUGHT AT: NAVCONSTRACEN GULFPORT, MS (CDP 329T)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 1 semester hour in light construction equipment operation (3/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training including 15 ton dump truck, tractor/trailer operations, tie down procedures, front end loader and forklift operations.

SCOPE: The course content will include the following, in accordance with approved technical manuals; perform prestart, during operation, and post operation checks, operate dump trucks, do tie down procedures, and operate tractor/trailers, front end loaders and forklifts.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 506 through 519 must be completed and signed prior to attending this training.

CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: None

CIN: A-730-0004

TITLE: CONSTRUCTION BASIC VETERAN EQUIPMENT OPERATOR, PHASE II

TAUGHT AT: NAVCONSTRACEN GULFPORT, MS (CDP 329U)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 1 semester hour in heavy construction equipment operation (3/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training in air compressor, crawler tractor, motorized grader, compaction equipment and motorized scraper operations.

SCOPE: The course content will include the following, in accordance with approved technical manuals; perform prestart, during operation, and post operation checks, operate air compressors, crawler tractors, motorized graders, compaction equipment and motorized scrapers.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 500 through 525 must be completed and signed prior to attending this training.

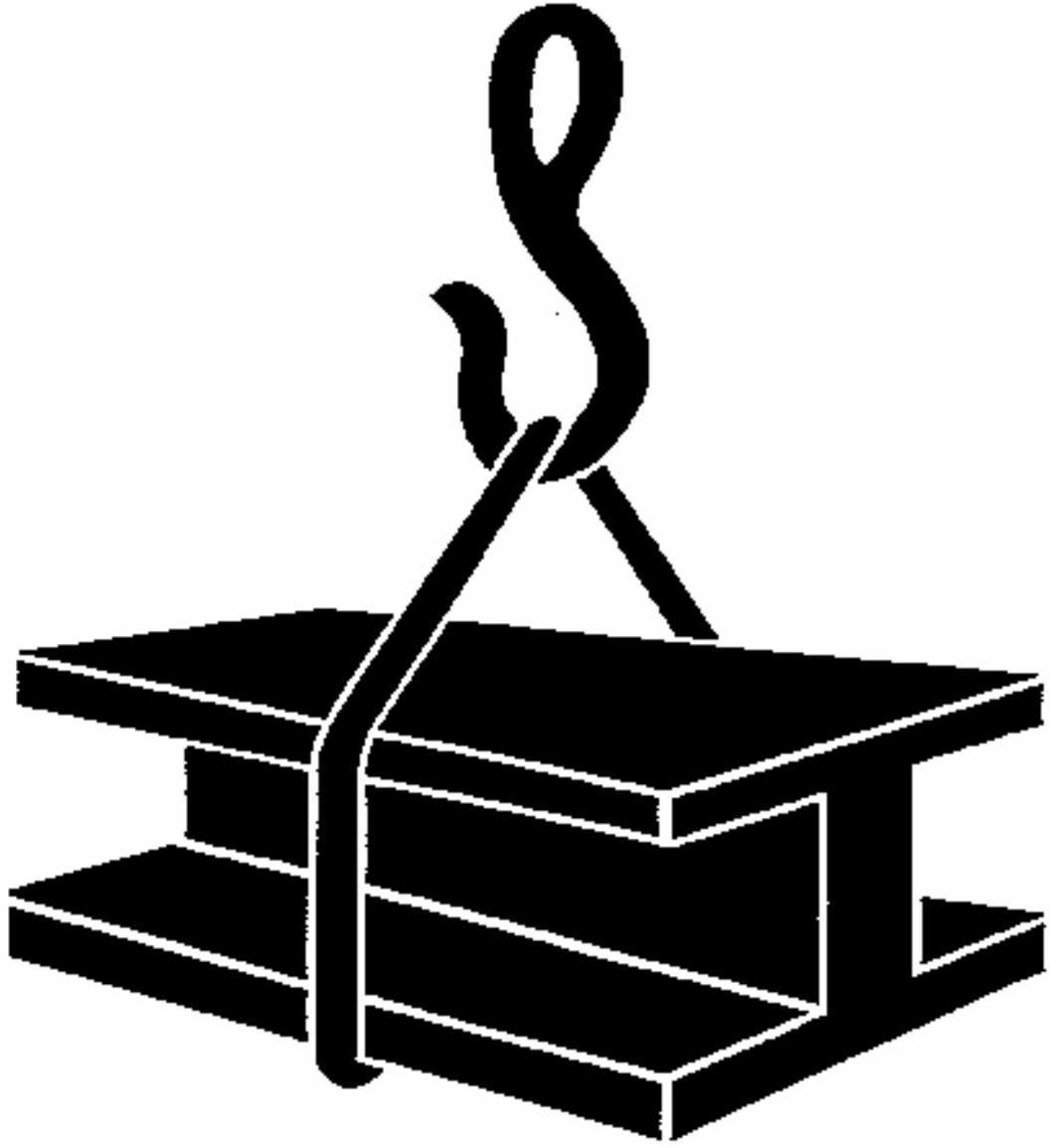
CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: None



STEELWORKER

STEELWORKER (SW) FORMAL COURSES

<u>CIN</u>	<u>NEC</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-711-0015	NONE	STEELWORKER CLASS "A"	GP	7-2
A-711-0018	6010	ADVANCED STEELWORKER	PH/GP	7-3
A-711-0019	NONE	CONSTRUCTION BASIC VETERAN STEELWORKER, PHASE I	GP	7-4
A-711-0020	NONE	CONSTRUCTION BASIC VETERAN STEELWORKER, PHASE II	GP	7-5

CIN: A-711-0015

TITLE: STEELWORKER CLASS "A"

TAUGHT AT: NAVCONSTRACEN Gulfport, MS (CDP 6288)

LENGTH: 46 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 2 semester hours in blueprint reading, 3 in sheet metal design and fabrication, and 6 in welding (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide basic technical knowledge and basic practical skills in preparation for immediate usefulness as Steelworkers.

SCOPE: OXY-MAPP gas welding, brazing and cutting; electric arc welding; steelworker mathematics; blueprint reading; sheetmetal layout and fabrication; placing and tying reinforcing steel for concrete construction, identifying parts of a pre-engineered metal building.

PREREQUISITES:

1. Selected CN, CA, CR, SN, and FN with ASVAB Composite AR+MC+SA=140.
2. Vision correctable to 20/20 is required.

CLASS SIZE: Maximum:8 Minimum: 4

QUOTA CONTROL: ACDU USN: BUPERS,291; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: Designated SW striker

CIN: A-711-0018

TITLE: ADVANCED STEELWORKER

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 346D)
NAVCONSTRACEN Gulfport, MS (CDP 351L)

LENGTH: 68 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 semester hours in applied mathematics; in the lower-division baccalaureate/associate degree category, 4 semester hours in planning, estimating, and scheduling in steel/metal/fabrication; 8 in advanced welding; and 1 in technical mathematics (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide the advanced technical skills and principles of job management necessary to qualify for assignment as a trade crew on a construction project.

SCOPE: Advanced instruction in the principles of supervision and job planning, mathematics, planning and estimating, sheetmetal layout and fabrication, reinforcing steel, equipment repair, oxyacetylene cutting and welding, specialized welding, pipe welding, field rigging, and fiber line.

PREREQUISITES:

1. Qualified SW2 and above.
2. Must be career oriented, meet obliserve requirements, and endorsed/screened by unit commander.

CLASS SIZE Maximum: 12 Minimum: 4

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 6010

CIN: A-711-0019

TITLE: CONSTRUCTION BASIC VETERAN STEELWORKER, PHASE I

TAUGHT AT: NAVCONSTRACEN GULFPORT, MS (CDP 329B)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 2 semester hours in basic metal shop (3/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level I training in the use of sheetmetal shop equipment, sheetmetal fabrication, and assembly and erection of pre-engineered buildings.

SCOPE: The course content will include the following, in accordance with approved technical manuals; use of sheetmetal shop equipment including; cornice hand brake, slip roll former, squaring, beading, and crimping machines, circle shears, bar folder, and spot welding machine, fabrication of various sheetmetal shapes, transitions, and duct work, fabrication and installation of various fastening devices, assembly and erection of pre-engineered buildings.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 600 through 607 must be completed and signed prior to attending this training.

CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: None

CIN: A-711-0020

TITLE: CONSTRUCTION BASIC VETERAN STEELWORKER, PHASE II

TAUGHT AT: NAVCONSTRACEN GULFPORT, MS (CDP 329C)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in basic welding/cutting (3/00)

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training in the basics of oxy/mapp-gas cutting and welding, brazing, and electric arc welding.

SCOPE: The course content will include the following, in accordance with approved technical manuals; set-up of equipment used for oxy/mapp-gas cutting, welding and brazing operations, performing preventive maintenance on equipment, set-up and use of electric arc welding equipment

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 608 through 612 must be completed and signed prior to attending this training.

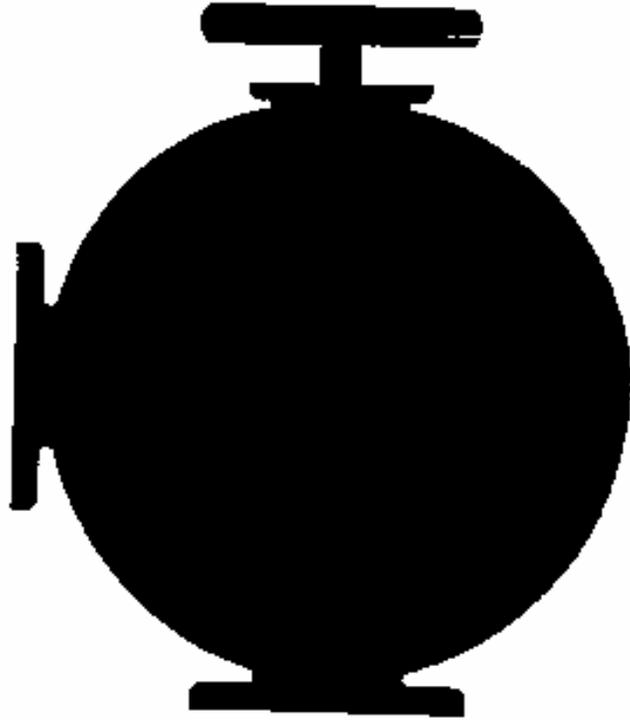
CLASS SIZE Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: None



UTILITIESMAN

UTILITIESMAN (UT) FORMAL COURSES

<u>CIN</u>	<u>NEC</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-720-0012	NONE	UTILITIESMAN CLASS "A"	DET SHP	8-2
A-720-0013	6105	ADVANCED UTILITIESMAN	PH/GP	8-3
A-720-0039	NONE	CONSTRUCTION BASIC VETERAN UTILITIESMAN, PHASE I	PH	8-4
A-720-0040	NONE	CONSTRUCTION BASIC VETERAN UTILITIESMAN, PHASE II	PH	8-5

CIN: A-720-0012

TITLE: UTILITIESMAN CLASS "A"

TAUGHT AT: NAVCONSTRACEN, DET SHEPPARD AFB, TX (CDP 619B)

LENGTH: 94 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 1 semester hour in electricity; 6 in plumbing; and 6 in heating, air conditioning, and refrigeration (4/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide basic technical knowledge and skills in preparation for immediate usefulness as Utilitiesman.

SCOPE: Trains Navy personnel in an introduction to water processing, operating principals, configuration, construction, maintenance and repair of water supply systems, waste systems, and natural gas systems. Also includes installing fixtures, faucets, valves, and the use and maintenance of tools and equipment, and workplace safety. Provides technical training in heating, ventilation, air conditioning/refrigeration (HVAC/R) systems. Provide fundamentals of HVAC/R systems to include construction features, types of operating principals, operation, maintenance, troubleshooting, repair and safety. Provides training in piping and tubing sizes, types, and fabrication of piping and tubing systems. Includes training in HVAC/R physics. Provides training in electrical fundamentals and principals including electrical components, circuits, and test equipment used in HVAC/R systems. Heating fundamentals include warm air heating, oil, gas, and steam generating systems, distribution systems. Includes training in centrifugal pump operation, and installation. Refrigeration fundamentals include commercial, multi-component, and cold storage systems operation and troubleshooting. EPA certification testing is conducted.

PREREQUISITES:

1. Selected CN, CA, CR, SN and FN with ASVAB Composite AR+MK+EI+GS=200.

CLASS SIZE: Maximum: 6 Minimum

QUOTA CONTROL: ACDU USN: BUPERS 482; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Officer in Charge: Detachment Sheppard AFB, TX

NAVY SKILL: Designated UT striker

CIN: A-720-0013

TITLE: ADVANCED UTILITIESMAN

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4028)
NAVCONSTRACEN Gulfport, MS (CDP 466Z)

LENGTH: 89 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 2 semester hours in basic plumbing systems, 2 in basic electricity, 2 in boiler and steam generation, 3 in basic air conditioning and refrigeration, and 2 in water treatment (3/00).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide advanced technical knowledge and skills necessary for successful/more productive operations; not only in the shop, but job site as well.

SCOPE: Leadership principles of foremanship, water and sewage treatment, equipment and operation; potable water distribution systems; sewer and waste systems; boiler operation and maintenance; and refrigeration and air conditioning, principles of electrical troubleshooting techniques.

PREREQUISITES:

1. Qualified UT2 and above.
2. Must be career oriented, meet obliserve requirements, and endorsed/screened by unit commander.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I.

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA
Commanding Officer, Naval Construction Training Center, Gulfport, MS

NAVY SKILL: NEC 6105

CIN: A-720-0039

TITLE: CONSTRUCTION BASIC VETERAN UTILITIESMAN, PHASE I

TAUGHT AT: NAVCONSTRACEN PORT HUENEME, CA (CDP 329H)

LENGTH: 12 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training in electrical motors, pump maintenance, soldering, heating systems, and air conditioning and refrigeration.

SCOPE: The course content will include the following, in accordance with approved technical manuals; electrical motors, pump maintenance, copper pipe/tubing joints, heating systems, air conditioning and refrigeration.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 702 through 706 must be completed and signed prior to attending this training.

CLASS SIZE: Maximum:12

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA.

NAVY SKILL: None

CIN: A-720-0040

TITLE: CONSTRUCTION BASIC VETERAN UTILITIESMAN, PHASE II

TAUGHT AT: NAVCONSTRACEN PORT HUENEME, CA (CDP 329J)

LENGTH: 12 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide performance apprentice level training in tools and their uses, waste systems, water systems and fixture installations.

SCOPE: The course content will include the following, in accordance with approved technical manuals; utility systems, waste systems, water systems, and fixture installation.

PREREQUISITES:

1. CB-VET's are required to read and become very familiar with all references listed in the skills equivalency handbook. All knowledge Qualification Standards 707 through 710 must be completed and signed prior to attending this training.

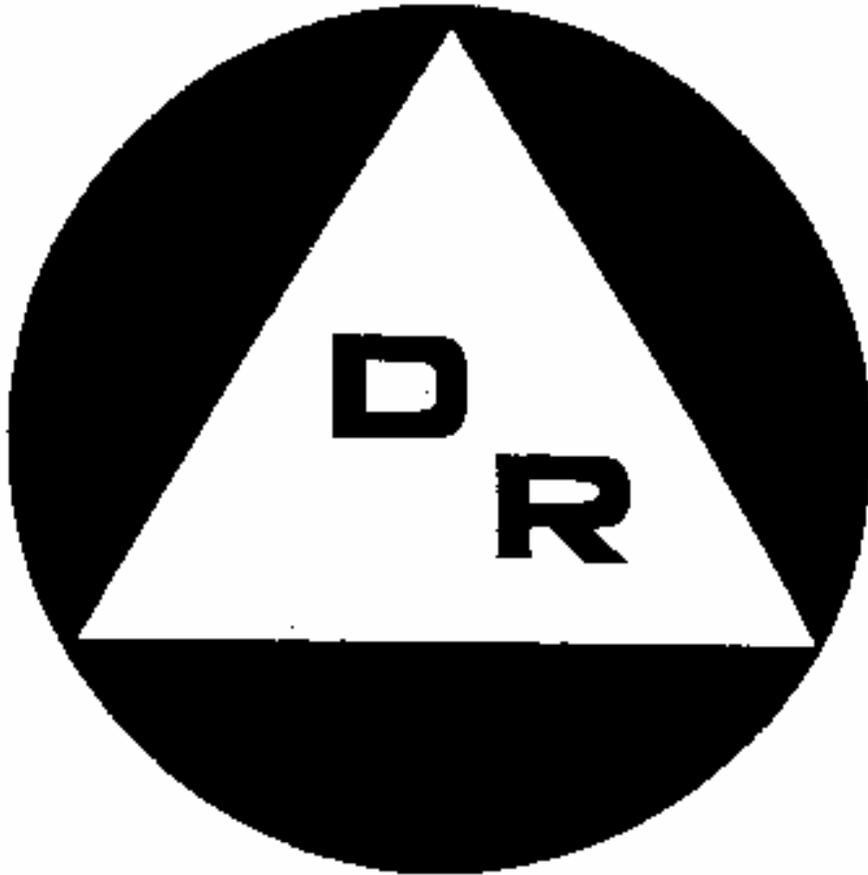
CLASS SIZE: Maximum: 24 Minimum: 6

QUOTA CONTROL: ACDU USN: BUPERS 401; OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Commanding Officer, Naval Construction Training Center, Port Hueneme, CA.

NAVY SKILL: None



DISASTER
RECOVERY

DISASTER RECOVERY AND SPECIAL FORMAL COURSES

<u>CIN</u>	<u>NEC</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-494-0006	9598	DISASTER PREPAREDNESS OPERATIONS SPECIALIST COURSE	DET FTLWD	9-2
A-495-2062	4805	SHIPBOARD CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL DEFENSE OPERATIONS AND TRAINING SPECIALIST	DET FTLWD	9-3
A-832-0001	2002	MILITARY POLICE INVESTIGATIONS 830 ASIVS	DET FTLWD	9-4
A-840-0001	2009	PROTECTIVE SERVICES TRAINING	DET FTLWD	9-5

CIN: A-494-0006

TITLE: DISASTER PREPAREDNESS OPERATIONS SPECIALIST COURSE

TAUGHT AT: NAVCONSTRACEN, DET FORT LEONARD WOOD, MO (CDP 437L)

LENGTH: 26 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the upper-division baccalaureate category, 3 semester hours in disaster preparedness management, 2 in radiological hazards, 2 in biological hazards, and 2 in chemical hazards (8/99).

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide officers, civilians and enlisted personnel having responsibility for disaster preparedness with the skills necessary to prepare for, defend against, and recover from major accidents and natural or man-made disaster.

SCOPE: Training includes the disaster preparedness program; organization and responsibilities; disaster preparedness plan and supporting document preparation; peacetime response and recovery requirements for major accidents and disasters; wartime protection, response and recovery operations; detection, protection, and decontamination due to nuclear, biological, and chemical contamination; chemical warfare defense operations; associated reports, related administrative and supervisory requirements; installation information and training program and inspection program, to include program analysis pertinent to disaster preparedness; and instructor fundamentals. Students will be required to perform in a simulated wartime and peacetime environment wearing actual protective clothing. The course is taught only at the Naval Construction Training Center Detachment Ft. Leonard Wood, MO (NCTC DET FLW). NCTC DET FLW provides enhanced training through the use of the U.S. Army Chemical Defense Training Facility (CDTF), the Edwin R. Bradley Radiological Laboratory, and the U.S. Army Chemical Apparatus Training Facility (CATF).

PREREQUISITES: NONE

NOTE: (1) Bring eye glass inserts for MCU-2P Gas Mask or be able to see 20/40 (near or distant) or better in one eye. Students failing to meet this requirement will be dropped from the course.

(2) Students reporting for instruction must meet Physical Readiness Program standards IAW OPNAVINST 6110.1 series (Body-fat percentage of 22% for males and 30% for females). Students failing to meet this requirement will be dropped from the course.

(3) Pregnant members are not allowed to attend this course due to the nature of the training.

CLASS SIZE: MAXIMUM: 20 MINIMUM: 10

QUOTA CONTROL: ACDU USN: BUPERS 401 OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO:

Officer in Charge: Navy Detachment Fort Leonard Wood, MO

NAVY SKILL: NEC 9598 , NOBC 2715, NOBC 2765

CIN: A-495-2062

TITLE: SHIPBOARD CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL DEFENSE (CBR-D)
OPERATIONS AND TRAINING SPECIALIST

TAUGHT AT: NAVCONSTRACEN, DET FORT LEONARD WOOD, MO (CDP 437M)

LENGTH: 12 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To provide basic to advance Chemical, Biological, and Radiological Defense (CBR-D) training for enlisted personnel (E5-E9), Source Ratings (DC, HT, and HM). Enlisted graduates of this course will be prepared to conduct CBR-D training at Training Commands and aboard ship for CBR-D, advise on integration of CBR-D operations into a normal command organization of the functions necessary to prepare for, defend against and recover from CBR-D environment.

SCOPE: This high risk course has been designated by CNETINST 1500.20, and is designed to teach the knowledge and skills needed to perform CBR-D Operations and Training Specialist duties. The course is taught only at the Naval Construction Training Center Detachment Ft Leonard Wood (NCTC DET FLW), Missouri. NCTC DET FLW provides enhanced training through the use of the U.S. Army Chemical Defense Training Facility (CATF). Course areas covered will include: practical training for Chemical/Biological Agents, instruments/operational aspects, Chemical and Biological decontamination and survey operations, practical training with radiac instruments/operational aspects, radiation surveys, calculations and decontamination. Students will be required to perform in a simulated wartime and peacetime environment wearing actual protective clothing.

PREREQUISITES: E-5 or above, Optical inserts (if required), within PRT standards.

NOTE: (1) Bring eye glass inserts for MCU-2P Gas Mask or be able to see 20/40 (near or distant) or better in one eye. Students failing to meet this requirement will be dropped from the course.

(2) Students reporting for instruction must meet Physical Readiness Program standards IAW OPNAVINST 6110.1 series (Body-fat percentage of 22% for males and 30% for females). Students failing to meet this requirement will be dropped from the course.

(3) Pregnant members are not allowed to attend the course due to the nature of the training.

CLASS SIZE: MAXIMUM: 30 MINIMUM: 13

QUOTA CONTROL: ACDU USN: BUPERS 402D OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO: Officer in Charge: Navy Detachment Fort Leonard Wood, MO

NAVY SKILL: NEC 4805

CIN: A-832-0001

TITLE: MILITARY POLICE INVESTIGATIONS 830 ASIVS

TAUGHT AT: NAVCONSTRACEN, DET FORT LEONARD WOOD, MO (CDP 437N)

LENGTH: 58 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: To qualify selected persons as military investigators in areas of concern to military police or Navy equivalent duties.

SCOPE: Academic instruction is provided in the subjects of investigative skills, military law, crime lab support, physical evidence, testimonial evidence, investigating drug offenses, reporting, special operations and supplementary examinations.

PREREQUISITES: OTHER=Must be assigned to or ordered to duties requiring training in military investigations and Paygrade E5.

CLASS SIZE: MAXIMUM: 8 MINIMUM: 4

QUOTA CONTROL: ACDU USN: BUPERS 402D OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO: Officer in Charge: Navy Detachment Fort Leonard Wood, MO

NAVY SKILL: NEC 2002

CIN: A-840-0001

TITLE: PROTECTIVE SERVICES TRAINING (7H-F18/830-F13)

TAUGHT AT: NAVCONSTRACEN, DET FORT LEONARD WOOD, MO (CDP338M)

LENGTH: 22 days

RECOMMENDED CREDIT: None

CONVENING INFORMATION: See CANTRAC Volume II

PURPOSE: Provide training in protective services to personnel who conduct Protective Service missions for executive level DOD leaders who are potential targets of terrorism.

SCOPE: Instruction is provided in the subjects of protective services tactics and anti-ambush operations. Terrorism counteraction to include motorcade driving, attacks on principle drills, instinctive firearms drills, counter-surveillance operations, and self-applied security measures.

PREREQUISITES: Must be Master-At-Arms and be assigned to or ordered to duties requiring training in Protective Services. This course requires a high degree of physical fitness. All students that are over 40m years old will have a copy of their over 40 physical to present to the PSTC staff on the first day of training. Students will not be on any type of limited duty profile. (Paygrade E6 or above)

CLASS SIZE: MAXIMUM: 30 MINIMUM: 15

QUOTA CONTROL: ACDU USN: BUPERS 402D OTHERS: See CANTRAC Volume I

PERSONNEL REPORT TO: Officer in Charge: Navy Detachment Fort Leonard Wood, MO

NAVY SKILL: NEC 2009

**SECTION
II**

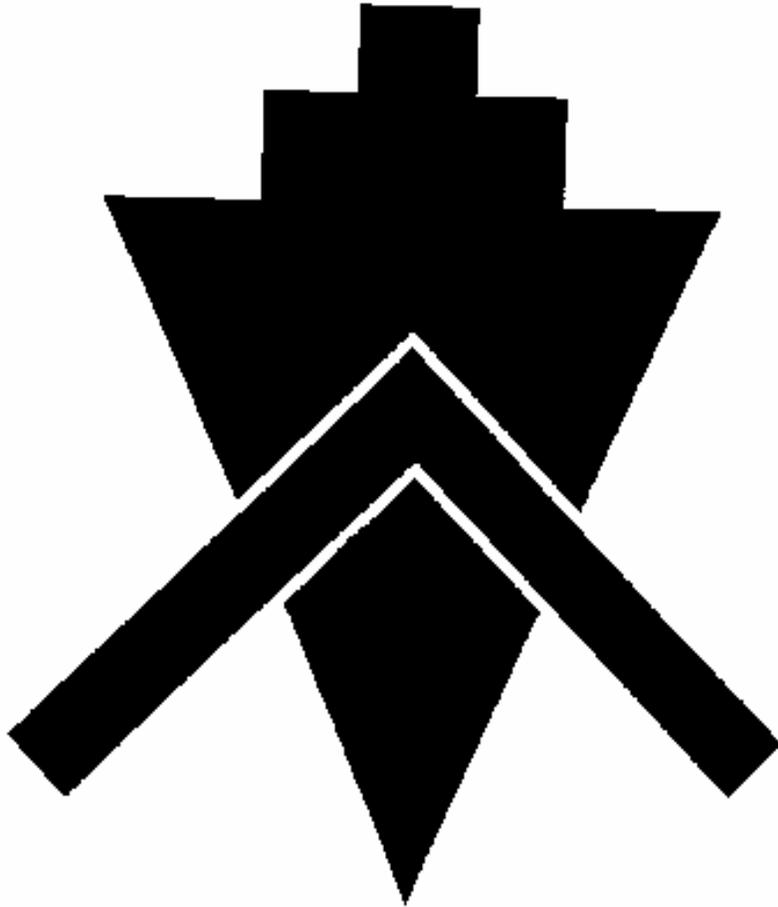
**CLASS “F”
INDIVIDUAL FUNCTIONAL SKILL
AND
RATING-SPECIFIC TRAINING**

**TABLE OF CONTENTS
SECTION TWO**

	PAGE
RECORD OF CHANGE.....	II-1-2
PROCEDURES APPLYING TO CLASS “F” COURSES	II-1-3
BU COURSES	II-2-1
CE COURSES	II-3-1
CM COURSES	II-4-1
EA COURSES.....	II-5-1
EO COURSES	II-6-1
SW COURSES	II-7-1
UT COURSES	II-8-1
DRT COURSES.....	II-9-1

PROCEDURES APPLYING TO CLASS "F" COURSES

1. NAVCONSTRACEN Port Hueneme. Quota Control for NMCB's and USMCR commands is retained by the Commander, Seabee Readiness Group, Pacific. Quotas are firmed when requested based on no conflict with scheduled "A" and "C1" courses.
2. NAVCONSTRACEN Gulfport. Quota control for NMCB's and USMCR Commands is retained by the Commander, Seabee Readiness Group, Atlantic. Quotas are firmed when requested based on no conflict with scheduled "A" and "C1" courses.
3. Prerequisites. Prerequisites stated in the course listings must be met by students attending that particular course of instruction. Waivers of any prerequisites must be requested in writing by the requesting command to the appropriate NCR which will coordinate the action with NAVCONSTRACEN.
4. Attendance. Attendance at each class session is required for course completion. A student who is absent from any portion which would materially affect his ability to pass the course of instruction will be dropped from the course and returned to his parent command.
5. Class Leader. The senior student in each course of instruction will be the Class Leader. S/he will be militarily in charge of the class and will insure that all current regulations and grooming standards are followed by all students.
6. Record of Training. The Training Roster will be forwarded by the requesting command via the appropriate SRG to the NAVCONSTRACEN providing the training no later than five (5) working days prior to commencement of class to allow for preparation of all course materials, etc. The completed ORIGINAL roster showing class attendance, final grade, and any comments about the class attitude and participation will be forwarded to the requesting command via the SCBT Coordinator with a copy to the appropriate SRG. This will be the formal Report of Training Certification and, as such, will serve as the Course Completion letter.
7. Funding. The Naval Construction Training Centers administer their Class "F" program on a reimbursement for consumables basis. Current costs will be maintained by the appropriate NAVCONSTRACEN and the requesting command will receive initial billing at the time a firm schedule is established. For the total amount of training, a NAVCOMPT Form 2275/DD Form 1149 (whichever is applicable) is to be forwarded by the requesting command 45 days prior to class convening date. Final billing will be forwarded to the requesting command at the conclusion of its training period.



BUILDER

BUILDER "F" COURSES

<u>CIN</u>	<u>SKILL</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-710-0029	108.1	TOOL AND EQUIPMENT MAINTENANCE	PH/GP	2-2
A-710-0025	130.2	FORMING AND REINFORCING II	PH/GP	2-3
A-710-0030	132.2	MIXING, PLACING AND FINISHING CONCRETE II	PH/GP	2-4
A-710-0028	140.2	MASONRY UNIT CONSTRUCTION	PH/GP	2-5
A-710-0026	150.2	LIGHT FRAME CONSTRUCTION II	PH/GP	2-6
A-710-0012	162.1	ROOFING	PH/GP	2-7
A-710-0040	164.1	FINISH CARPENTRY I	PH/GP	2-8
A-710-0041	164.2	FINISH CARPENTRY II	PH/GP	2-9
A-710-0042	166.1	PLASTERING/STUCCO	PH/GP	2-10
A-710-0043	167.1	CERAMIC TILE SETTING	PH/GP	2-11
A-710-0044	170.1	HEAVY CONSTRUCTION I	PH/GP	2-12
A-710-0045	170.2	HEAVY CONSTRUCTION II	PH/GP	2-13
A-710-0046	190.2	PAINTING AND PRESERVATION II	GP	2-14
A-710-0038	191.1	POWDER-ACTUATED TOOLS	PH/GP	2-15
A-710-0048	192.1	EUROPEAN CONSTRUCTION MATERIALS AND TECHNIQUES	PH/GP	2-16

CIN: A-710-0029

TITLE: TOOL AND EQUIPMENT MAINTENANCE

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP752V)
NAVCONSTRACEN Gulfport, MS (CDP 376S)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 2 semester hours in basic hand tool maintenance and repair (10/01).

COURSE OBJECTIVE: Upon completion of this course the student will:

1. Identify inventory and issue tools, tool kits, and assemblies common to an NMCB central tool room.
2. Procure tools using the Federal Supply System.
3. Establish files and preventive maintenance schedules.
4. Recondition various hand tools and saw blades.

PREREQUISITES: E3 and Above

CLASS SIZE: Maximum PH 8 Minimum: PH 4
GP 6 GP 4

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 108.1

CIN: A-710-0025

TITLE: FORMING AND REINFORCING II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752S)
NAVCONSTRACEN Gulfport, MS (CDP 376M)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 semester hours in forming and reinforcement for concrete construction practice; in the lower-division baccalaureate/associate degree category, 1 semester hour in concrete construction. Credit is to be granted in either category, but not in both (4/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Use drawing and specifications to layout a construction site.
2. Build and install concrete forms.
3. Cut, bend, and install reinforcing steel.
4. Describe precast concrete operations.

PREREQUISITES: BUCA and above

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
 NAVCONSTRACEN for all others.
 GP - SRG Atlantic for NMCB and USMCR Commands:
 NAVCONSTRACEN for all others.

NAVY SKILL: 130.2

NOTE: This course will be scheduled in conjunction with A-710-0030 with the same personnel attending both courses.

CIN: A-710-0030

TITLE: MIXING, PLACING AND FINISHING CONCRETE II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752W)
NAVCONSTRACEN Gulfport, MS (CDP 376T)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course the student will:

1. Using mix design and rules of thumb, compute proportions of ingredients for concrete.
2. PM and operate concrete mixers.
3. Place and finish concrete.
4. PM and operate concrete saw.

PREREQUISITES: BUCA and above

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL:132.2

NOTE: This course will be scheduled in conjunction with A-710-0025 with the same personnel attending both courses.

CIN: A-710-0028

TITLE: MASONRY UNIT CONSTRUCTION II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752U)
NAVCONSTRACEN Gulfport, MS (CDP 376R)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 semester hours in masonry construction practices; in the lower-division baccalaureate/associate degree category, 1 semester hour in masonry construction. Credit is to be granted in either category, but not both (4/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Use construction drawings/sketches to determine vertical and horizontal alignment of course.
2. Measure distances from reference points and mark guidelines on working surfaces, including location of embedded items and opening.
3. Chase out bond and lay up corner leads, piers, pilasters and walls at designated locations, and finish joints by tooling or raking.
4. Determine thickness of vertical and horizontal joints.
5. Designate mortar mix proportions within given specifications.
6. Estimate man-hours and materials needed for projects.

PREREQUISITES: BUCN or above

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 140.2

CIN: A-710-0026

TITLE: LIGHT FRAME CONSTRUCTION II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752T)
NAVCONSTRACEN Gulfport, MS (CDP 376N)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 semester hours in components for roof framing; in the lower-division baccalaureate/associate degree category, 1 semester hour in roof framing systems. Credit is to be granted in either category, but not in both (4/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Read and use construction drawings to lay out, cut and erect rafters for an intersecting wood frame structure.
2. Lay out, cut and erect service type stairs.
3. Set up and perform operator's maintenance on trailer-mounted field saws including prime movers.

PREREQUISITES: BUCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 150.2

CIN: A-710-0012

TITLE: ROOFING

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752R)
NAVCONSTRACEN Gulfport, MS (CDP 2407)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the vocational certificate category, 2 semester hours in roof covering applications; in the lower-division baccalaureate/associate degree category, 1 semester hour in roofing systems. Credit is to be granted in either category, but not both (4/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Select the best roof covering for various pitches and types.
2. Use and care for tools, equipment, and materials required to apply various wood and composition shingles.
3. Apply various roll roof coverings.
4. Operate and perform operator's maintenance on asphalt kettles.
5. Apply hot built-up roof coverings.

PREREQUISITES: OF-13 (E-2 and above)

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 162.1

CIN: A-710-0040

TITLE: FINISH CARPENTRY I

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 3929)
NAVCONSTRACEN Gulfport, MS (CDP 391Z)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Use and explain terms related to finish carpentry.
2. Select, use and care for common hand tools and power tools used to perform finish carpentry, including metal studs and fastening devices.
3. Lay out, cut and install interior finishing materials such as composition floor tile, acoustical tile on ceiling and walls, plywood and gypsum wallboard, including the taping and finishing of gypsum wallboard.

PREREQUISITES: BUCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 164.1

CIN: A-710-0041

TITLE: FINISH CARPENTRY II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 392G)
NAVCONSTRACEN Gulfport, MS (CDP 392F)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Cut, fit, and install millwork projects, such as doors, windows, finish stairs and cabinets, including applicable hardware items.
2. Lay out, cut and install interior trims, including casings, baseboards and shoe mold.
3. Lay out and direct the installation of suspended ceiling.
4. Lay out, cut and install exterior trim and siding , including cornices and corner boards.

PREREQUISITES: BUCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 164.2

CIN: A-710-0042

TITLE: PLASTERING/STUCCO

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 392J)
NAVCONSTRACEN Gulfport, MS (CDP 392H)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Identify and explain the purpose of tools, equipment and materials required to mix and apply Portland cement plaster (stucco).
2. Mix stucco to specified proportions and consistency, using machine or hand methods.
3. Prepare masonry and concrete bases to receive scratch coats.
4. Apply scratch coats over metal lath, masonry and concrete walls.
5. Apply brown and finish coats.
6. Finish stucco by wood floating or steel toweling.

PREREQUISITES: BUCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 166.1

CIN: A-710-0043

TITLE: CERAMIC TILE SETTING

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 392N)
NAVCONSTRACEN Gulfport, MS (CDP 392K)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Identify and explain the purpose of tools, equipment and materials.
2. Lay out, set and cut ceramic tile and related trim utilizing the proper procedures and tools over plaster, sheetrock and wood surfaces with appropriate adhesives.

PREREQUISITES: BUCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 167.1

CIN: A-710-0044

TITLE: HEAVY CONSTRUCTION I

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 396J)
NAVCONSTRACEN Gulfport, MS (CDP 396H)

LENGTH: PH – 19 days
GP – 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Use heavy construction terms and state the purpose of the various structural members used in heavy timber construction, including those in waterfront structures.
2. Use and care for tools, equipment, and materials from the Bridge and Dock builder's Tool Kit (80041)
3. Operate and perform operator's maintenance on portable gasoline and pneumatic power tools.
4. Operate and perform operator's maintenance on air compressors, including prime mover.
5. Use and care for the engineer's level.
6. Use construction drawings/sketches to lay out, assemble and erect heavy timber construction.

PREREQUISITES: BUCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 170.1

CIN: A-710-0045

TITLE: HEAVY CONSTRUCTION II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 396L)
NAVCONSTRACEN Gulfport, MS (CDP 396K)

LENGTH: PH – 19 days
GP – 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Direct operations of all types of pile-driving rigs using all types of piles.
2. Prepare simple designs, sketches and specifications.
3. Estimate material, equipment and manpower.
4. Establish and maintain a standard pile driving log.

PREREQUISITES: BUCN and above. Skill 170.1

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 170.2

CIN: A-710-0046

TITLE: PAINTING AND PRESERVATION II

TAUGHT AT: NAVCONSTRACEN Gulfport, MS (CDP 396M)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Operate and maintain sandblasting and spray painting equipment.
2. Cut in sash, trim and perform decorative painting, including the use of lacquers.
3. Tint paints to color specifications.

PREREQUISITES: BUCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 190.2

NOTE: NAVCONSTRACEN Port Hueneme does not offer this course due to the lack of required equipment and EPA restrictions.

CIN: A-710-0038

TITLE: POWDER-ACTUATED TOOLS

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752Y)
NAVCONSTRACEN Gulfport, MS (CDP 3532)

LENGTH: 1 day

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Use and operate powder-actuated tools.
2. Select and use fasteners, charges and guards.
3. Observe all safety precautions pertinent to powder-actuated tools.

PREREQUISITES: E3 and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 191.1

NOTE: Hilti Low-Velocity Powder-Actuated Tool Operator's license is issued upon successful completion of this course.

CIN: A-710-0048

TITLE: EUROPEAN CONSTRUCTION MATERIALS AND TECHNIQUES

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 396T)
NAVCONSTRACEN Gulfport, MS (CDP 396S)

LENGTH: PH – 5 days
GP – 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Use European construction blueprints and specifications, estimate, select and install European construction materials and equipment applicable to the rating.
2. Interpret and apply European construction terminology and drawing symbols.

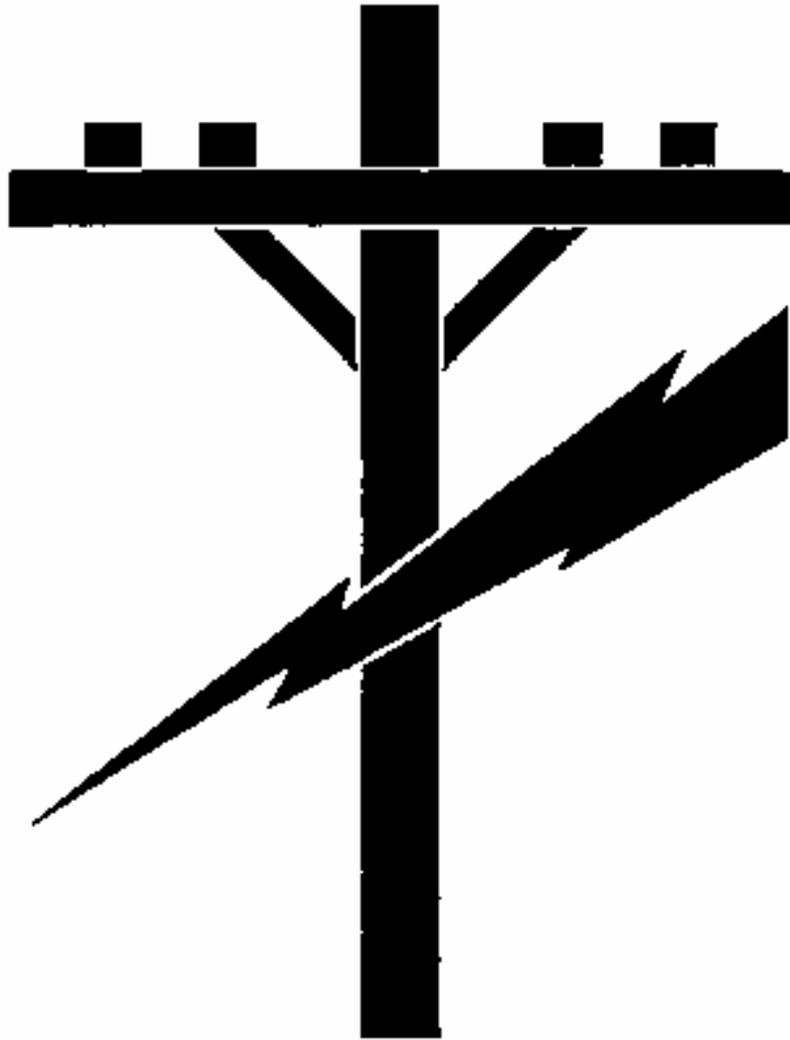
PREREQUISITES: For BU, CE and UT (E-2 and above). Prior attendance to applicable drawings and specifications courses encouraged. BU's: Skills 130.2, 140.2, and 166.1. CE's: Skills 216.2 and 240.2. UT's: Skill 710.2.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 192.1

NOTE: When requesting this course from Gulfport, sufficient lead time must be allowed for procuring the required materials, Port Hueneme offers familiarization only.



CONSTRUCTION
ELECTRICIAN

CONSTRUCTION ELECTRICIAN “F” COURSES

<u>CIN</u>	<u>SKILL</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-721-0030	203.1	PLANNING, ESTIMATING AND SCHEDULING (CE)	PH/GP	3-2
A-721-0024	212.2	ADVANCED BASE POWER PLANT MAINTENANCE	PH/GP	3-3
A-721-0032	216.2	ELECTRIC MOTORS AND CONTROLS II	PH/GP	3-4
A-721-0025	220.2	ELECTRIC POWER DISTRIBUTION SYSTEMS II	PH/GP	3-5
A-721-0001	240.2	INTERIOR WIRING II	PH/GP	3-6
A-721-0034	251.1	SOLID STATE FUNDAMENTALS	PH/GP	3-7
A-721-0035	252.1	BUCKET/AUGER TRUCK OPERATION	PH/GP	3-8

CIN: A-721-0024

TITLE: ADVANCED BASE POWER PLANT MAINTENANCE

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 576P)
NAVCONSTRACEN Gulfport, MS (CDP 576N)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical power generation (4/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Select, use, and care for tools and test equipment required to perform routine maintenance and repair of Mobile Electric Power (MEP) generator's, such as replacing lamps, fuses diodes, capacitors, control and sensing modules.
2. Troubleshoot and repair Mobile Electric Power (MEP) generators to the component level utilizing A/C and D/C Schematics.
3. Determine phase rotation of new or replacement generators and make proper connections to the existing system.
4. Set up and maintain a power plant watch bill.

PREREQUISITES: CE/CM E3 and above who hold Skill Level 251.1. Students are required to complete a High Risk Medical Criteria Form prior to class convening date. "A" school/CBVET graduate.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 212.2

NOTE: Forms are available through the NCR Training Coordinator's Office for NMCB and USMCR Commands and also the NAVCONSTRACEN SCBT Coordinator's Office.

CIN: A-721-0032

TITLE: ELECTRICAL MOTORS AND CONTROLS II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 396Z)
NAVCONSTRACEN Gulfport, MS (CDP 396Y)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Install and connect motors and control equipment including overload heaters, contactors, start-stop stations, coils and other sensing or limiting devices used to control the operation of single phase, split phase, and polyphase motors which do not require special starting, stopping, or reversing apparatus.
2. Connect a motor to a work load by using belts, pulleys, and direct shaft coupling.
3. Perform preventive maintenance on motors and controllers.
4. Install and connect equipment for starting, reversing and braking motors.
5. Wire motor controllers for auto transformer, resistance, and star-delta starting.
6. Perform technical maintenance on controllers to include: coils, relays, contacts, and switches.
4. Establish a preventive maintenance program.

PREREQUISITES: CECA and above

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILLS: 216.1 and 216.2

CIN: A-721-0001

TITLE: INTERIOR WIRING II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 753C)
NAVCONSTRACEN Gulfport, MS (CDP 372F)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Use hand and hydraulic benders, threaders, and punches for installation of 1-1/4 through 6 inch conduit.
2. Use various kit components of the battalion TOA and SKO such as the PVC bending kit and wire installation kit using the vacuum fish system and various cable pullers, interpret construction specs and make As-Builts.
3. Use sketches or wiring plans to trace out circuit components.
4. Demonstrate an understanding by troubleshooting various problems with low voltage circuits.
5. Answer questions with regards to the current National Electrical Code, including safety requirements.

PREREQUISITES: CECA and above. Students are required to complete a High Risk Medical Criteria Form prior to class convening date. CE "A" school/CBVET graduate.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 240.2

NOTE: Forms are available through the NCR Training Coordinator's Office for NMCB and USMCR Commands and also the NAVCONSTRACEN SCBT Coordinator's Office.

CIN: A-721-0034

TITLE: SOLID STATE FUNDAMENTALS

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4011)
NAVCONSTRACEN Gulfport, MS (CDP 400X)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Identify electronic components and the symbols used to represent them.
2. Test electronic components for go/no go conditions.
3. Replace faulty electronic components.
4. Troubleshoot electronic devices to component level, replace and repair as necessary.

PREREQUISITES: CECA and above. CE"A" school/CBVET graduate.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 251.1

CIN: A-721-0035

TITLE: BUCKET/AUGER TRUCK OPERATION (LINE CONSTRUCTION MAINTENANCE VEHICLE)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4013)
NAVCONSTRACEN Gulfport, MS (CDP 4012)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform pre-operational checks and operator's maintenance on an auger/bucket truck.
2. Position the equipment at the work site.
3. Ride in and operate the insulated bucket.
4. Set and remove utility poles.
5. Install power screw anchors.

PREREQUISITES: Must possess a valid government operator's license for 10-ton vehicles. Students must attend either CE''A'' or CE CB VET courses and receive initial climbing qualification. Students are required to complete a High Risk Medical Criteria Form prior to class convening date

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 252.1

NOTE: Forms are available through the NCR Training Coordinator's Office for NMCB and USMCR Commands and also the NAVCONSTRACEN SCBT Coordinator's Office.



CONSTRUCTION
MECHANIC

CONSTRUCTION MECHANIC “F” COURSES

<u>CIN</u>	<u>SKILL</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-610-0027	325.2	ENGINE OVERHAUL II (DIESEL)	PH/GP	4-2
A-610-0028	332.2	ENGINE TUNE-UP II (GASOLINE)	PH/GP	4-3
A-610-0029	334.2	ENGINE TUNE-UP II (DIESEL)	PH/GP	4-4
A-610-0030	334.3	ENGINE TUNE-UP III (DIESEL)	PH/GP	4-5
A-610-0043	340.1	CRANE MECHANIC	PH/GP	4-6
A-610-0041	340.2	MOBILE CRANE MECHANIC	PH/GP	4-7
A-610-0042	340.3	MECHANICAL CRANE INSPECTOR	PH/GP	4-8
A-610-0031	345.2	EQUIPMENT ELECTRICAL II	PH/GP	4-9
A-610-0032	345.3	EQUIPMENT ELECTRICAL III	PH/GP	4-10
A-610-0033	355.2	EQUIPMENT POWER TRAIN II	PH/GP	4-11
A-610-0034	365.2	EQUIPMENT CHASSIS II	PH/GP	4-12
A-610-0035	365.3	EQUIPMENT CHASSIS III	PH/GP	4-13
A-610-0038	397.1	HYDRAULIC SYSTEMS	PH/GP	4-14
A-610-0046	338.1	MEDIUM TACTICAL VEHICLE REPLACEMENT MAINTENANCE COURSE	PH/GP	4-15

CIN: A-610-0027

TITLE: ENGINE OVERHAUL II (DIESEL)

TAUGHT AT:NAVCONSTRACEN Port Hueneme, CA (CDP 4014)
NAVCONSTRACEN Gulfport, MS (CDP 4015)

LENGTH: 11 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Restore a diesel engine's performance to meet manufacturer's specifications by overhaul consisting of disassembly, diagnosis, repair, reassembly, adjustment and testing.
2. Properly use precision measuring instruments, hand tools, and specialized shop equipment.

PREREQUISITES: CMCN and above

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 325.2

CIN: A-610-0028

TITLE: ENGINE TUNE-UP II (GASOLINE)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4017)
NAVCONSTRACEN Gulfport, MS (CDP 4018)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Use appropriate tools and testing equipment.
2. Diagnose and repair electronic fuel injection systems and computer controls.
3. Diagnose and repair emission control system components.
4. Use an engine analyzer to test for diagnose and isolate ignition and fuel system malfunctions.

PREREQUISITES: CMCN and above.

CLASS SIZE: Maximum: 12 Minimum: 8

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 332.2

CIN: A-610-0029

TITLE: ENGINE TUNE-UP II (DIESEL)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 424E)
NAVCONSTRACEN Gulfport, MS (CDP 424M)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Troubleshoot, analyze and isolate diesel fuel system malfunctions on various types of fuel systems.
2. Perform minor and major adjustments to fuel system components consisting of setting racks, governors and timing fuel pumps to engines.
3. Adjust engine speeds, both idle and maximum.
4. Adjust starting valve linkage and any other components that affect engine performance.
5. Take, record, and evaluate compression readings.

PREREQUISITES: CMCN and above.

CLASS SIZE: Maximum: PH-10 Minimum: 6
GP-12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 334.2

CIN: A-610-0030

TITLE: ENGINE TUNE-UP III (DIESEL)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 424R)
NAVCONSTRACEN Gulfport, MS (CDP 425H)

LENGTH: 19 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Disassemble, inspect, repair, assemble, test and adjust diesel fuel system components (including mechanical and hydraulic governors) in accordance with manufacturer's specifications.
2. Use proper tools and test equipment.

PREREQUISITES: CM3 and above and PRCP Skill 334.2

CLASS SIZE: Maximum: 8 Minimum: 4

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 334.3

CIN: A-610-0043

TITLE: CRANE MECHANIC

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP5888)
NAVCONSTRACEN Gulfport, MS (CDP5884)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course is designed to familiarize the crane mechanic with repair and maintenance requirements for cranes. This course provides the student with a foundation of knowledge to build upon drawing from manufactures manuals and on-the-job training.

PREREQUISITES: None

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 340.1

CIN: A-610-0041

TITLE: MOBILE CRANE MECHANIC

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP586G)
NAVCONSTRACEN Gulfport, MS (CDP586F)

LENGTH: 2 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course is designed to familiarize the crane mechanic with repair and maintenance requirements for mobile cranes. This course provides the student with a foundation of knowledge to build upon drawing from operator's manuals and on-the-job training.

PREREQUISITES: Navy Skill 340.1

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 340.2

CIN: A-610-0042

TITLE: MECHANICAL CRANE INSPECTOR

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP5873)
NAVCONSTRACEN Gulfport, MS (CDP586L)

LENGTH: 3 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course is designed to familiarize Mechanical Crane Inspectors with the inspection requirements of the NAVFAC P-307. This course provides the student with a foundation of knowledge to build upon drawing from manufactures manuals and on-the-job training.

PREREQUISITES: 340.1

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 340.3

CIN: A-610-0031

TITLE: EQUIPMENT ELECTRICAL II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 425J)
NAVCONSTRACEN Gulfport, MS (CDP 425K)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Diagnose and repair electrical circuits including, starting, charging, and accessory/indicator circuits.
2. Read and interpret electrical diagrams and schematics to troubleshoot and repair electrical systems.

PREREQUISITES: CMCN, CECN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 345.2

NOTE: If 345.2 and 345.3 are requested back to back, total length will be 3 weeks.

CIN: A-610-0032

TITLE: EQUIPMENT ELECTRICAL III

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 426M)
NAVCONSTRACEN Gulfport, MS (CDP 426N)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Disassemble, inspect, bench test and repair electrical cranking motors.
2. Disassemble, inspect, bench test and repair generators (alternators) and charging system regulators.
3. Repair wiring harnesses, solenoids and relays.

PREREQUISITES: CMCN, CECN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 345.3

NOTE: If 345.2 and 345.3 are requested back to back, total length will be 3 weeks.

CIN: A-610-0033

TITLE: EQUIPMENT POWER TRAIN II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 426S)
NAVCONSTRACEN Gulfport, MS (CDP 426T)

LENGTH: 26 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Disassemble, clean, repair, adjust and assemble,
 - a. Standard transmissions
 - b. Transfer cases
 - c. Power take-off units
 - d. Drive shafts
 - e. Differentials
 - f. Front drive axles
 - g. Tract chains
 - h. Pivot brakes
 - i. Final drives
 - j. Sprockets
 - k. Idlers
 - l. Rollers
 - m. Track pads

PREREQUISITES: CMCN and above.

CLASS SIZE: Maximum: 8 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 355.2

CIN: A-610-0034

TITLE: EQUIPMENT CHASSIS II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 426V)
NAVCONSTRACEN Gulfport, MS (CDP 426W)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Troubleshoot hydraulic, vacuum and air brake systems.
2. Replace defective brake system component assemblies, including the master cylinder, wheel cylinders, brake shoes, brake pads, air and vacuum chambers and lines.
3. Replace defective front end and steering component assemblies, including power steering components.
4. Replace defective shock absorbers and suspension assemblies.

PREREQUISITES: CMCN and above.
Requires current Respirator Certification & Fit Test.

CLASS SIZE: Maximum: 8 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 365.2

CIN: A-610-0035

TITLE: EQUIPMENT CHASSIS III

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 426X)
NAVCONSTRACEN Gulfport, MS (CDP 426Y)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Disassemble, repair, adjust, and assemble:
 - a. Brake master cylinders
 - b. Air and vacuum booster units
 - c. Brake wheel cylinders
 - d. Air chambers
 - e. Air and vacuum service and control valves
2. Recondition brake drums using brake drum lathe
3. Troubleshoot front-end and steering malfunctions
4. Align front end and balance wheels
5. Disassemble, repair, adjust and assemble:
 - a. Steering gear units
 - b. Pump assemblies

PREREQUISITES: CMCN and above. Skill 365.2
Requires current Respirator Certification & Fit Test.

CLASS SIZE: Maximum: PH-8 Minimum: 6
GP-12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 365.3

CIN: A-610-0038

TITLE: HYDRAULIC SYSTEMS

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 427E)
NAVCONSTRACEN Gulfport, MS (CDP 427F)

LENGTH: 19 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Construct and operate a hydrostatic system using components common to a typical hydraulic system.
2. Properly assemble a hydraulic hose and fitting assembly and test the assembly under normal working pressures.
3. Connect and operate a flow meter to determine hydraulic system problems.
4. Construct and read a hydraulic schematic by proper use of current hydraulic symbols.
5. Troubleshoot an operable hydraulic system using a logical troubleshooting sequence.
6. Use basic knowledge to properly test electrohydraulic valves used on construction and allied equipment.

PREREQUISITES: CMCN and above.

CLASS SIZE: Maximum: 8 Minimum: 4

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 397.1

CIN: A-610-0046

TITLE: MEDIUM TACTICAL VEHICLE REPLACEMENT MAINTENANCE COURSE

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP740T)
NAVCONSTRACEN Gulfport, MS (CDP740U)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: To provide Construction Mechanic (CM) personnel with the knowledge and skills necessary to perform limited MTVR operations and maintenance in accordance with U. S. Marine Corps Interactive Electronic Technical Manual, TM 10629-CD.

SCOPE: Course content includes;

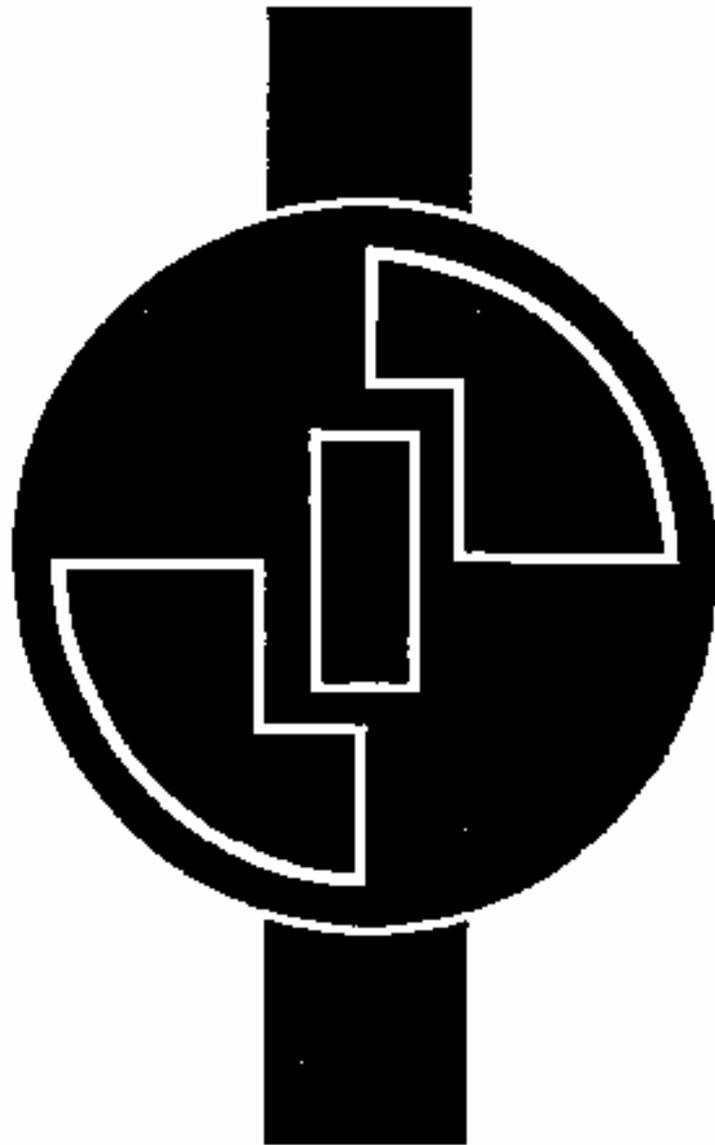
1. General Description
2. Safety
3. Performance Overview
4. Operation/Theory
5. Use of Interactive Electronic Technical Manual (IETM) intermediate Level Maintenance

PREREQUISITES: CMCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 338.1



ENGINEERING
AID

ENGINEERING AID “F” COURSES

<u>CIN</u>	<u>SKILL</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-412-0017	403.1	PLANNING, ESTIMATING AND SCHEDULING	PH/GP	5-2
A-412-0018	410.2	SURVEYING II	PH/GP	5-3
A-412-0019	420.2	DRAFTING II (ARCHITECTURAL)	PH/GP	5-4
A-412-0020	441.1	SOILS AND PAVEMENT ANALYSIS II (SOILS)	PH/GP	5-5
A-412-0021	442.1	SOILS AND PAVEMENT ANALYSIS II (BITUMENS)	PH/GP	5-6
A-412-0022	443.1	SOILS AND PAVEMENT ANALYSIS II (CONCRETE)	PH/GP	5-7
A-412-0016	450.1	NUCLEAR MOISTURE/DENSITY METER OPERATION AND RADIATION SAFETY	PH/GP	5-8

CIN: A-412-0017

TITLE: PLANNING, ESTIMATING, AND SCHEDULING

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4318)
NAVCONSTRACEN Gulfport, MS (CDP 428X)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform the procedures required in the development and delineation of a construction project schedule.
2. Complete a work element, material, equipment, and manpower estimate using the table and procedures described in NAVFAC P-405, Seabee Planner's and Estimator's Handbook.

PREREQUISITES: OF-13 (E-4 and above, with the exception of Construction Mechanic)

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 403.1

CIN: A-412-0018

TITLE: SURVEYING II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 431T)
NAVCONSTRACEN Gulfport, MS (CDP 431S)

LENGTH: 19 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Conduct topographic surveying and draw topographic map.
2. Select horizontal and vertical reference and control points.
3. Make determination of measuring techniques, verification of survey accuracy by field checks and computation of data required for laying out vertical and horizontal curves.
4. Compute and distribute error of closure for traverse and level nets.
5. Convert field survey data into information required for engineering studies and material quantity estimates, using survey and math tables, and calculator.
6. Determine the need to make field adjustments to transits, and levels.
7. Determine earthwork volumes and plot mass diagram.
8. Perform building and road layout.
9. Conduct construction surveying to update as built drawings.

PREREQUISITES: EACA and above.

CLASS SIZE Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 410.2

CIN: A-412-0019

TITLE: DRAFTING II (ARCHITECTURAL)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 431V)
NAVCONSTRACEN Gulfport, MS (CDP 431U)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Prepare construction drawings (using standard symbols) including:
 - a. Structural
 - b. Architectural
 - c. Mechanical
 - d. Air-conditioning plans and plumbing isometric
 - e. Electrical plan and schematic

PREREQUISITES: EACN and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 420.2

CIN: A-412-0020

TITLE: SOILS AND PAVEMENT ANALYSIS II (SOILS)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 431X)
NAVCONSTRACEN Gulfport, MS (CDP 431W)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Gather information pertinent to construction through soils exploration.
2. Perform seven field identification tests and the Hasty Method of Testing.
3. Perform the laboratory classification of soils.
4. Field evaluate soils for engineering purposes.
5. Evaluate soil samples using the principles and procedures of the California Bearing Ratio.
6. Assemble a soils exploration report.
7. Select a stabilizing agent.

PREREQUISITES: EACN and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 441.1

CIN: A-412-0021

TITLE: SOILS AND PAVEMENT ANALYSIS II (BITUMENS)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 431Z)
NAVCONSTRACEN Gulfport, MS (CDP 431Y)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Identify asphalt and tar bituminous materials.
2. Perform the flash point, specific gravity, softening and penetration test on bitumens.
3. Test and blend aggregate to conform to specifications.
4. Design bituminous concrete using the Marshall Method.
5. Identify types of pavements and surface treatments.
6. Determine bituminous and aggregate content of a hot mix asphaltic concrete sample.
7. Explain the operation and sampling procedures for a continuous mix asphalt plant.
8. Perform quality control tests on prepared asphalt concrete samples.

PREREQUISITES: EACN and above and PRCP Skill 441.1

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 442.1

CIN: A-412-0022

TITLE: SOILS AND PAVEMENT ANALYSIS II (CONCRETE)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 432S)
NAVCONSTRACEN Gulfport, MS (CDP 4326)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Describe the characteristics and uses of concrete, Portland cement, and admixtures.
2. Collect and test fresh concrete and prepare specimens from transit mix trucks and batch plants.
3. Test aggregate for hardness, organic impurities, fineness modules, gradation, and specific gravity.
4. Design normal and air-entrained concrete mixes by the absolute volume method.
5. Perform compressive and flexural strength tests on concrete specimens.

PREREQUISITES: EACN and above, and PRCP Skill 441.1

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 443.1

CIN: A-412-0016

TITLE: NUCLEAR MOISTURE/DENSITY METER OPERATION AND RADIATION SAFETY

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 298E)
NAVCONSTRACEN Gulfport, MS (CDP 298D)

LENGTH: 3 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

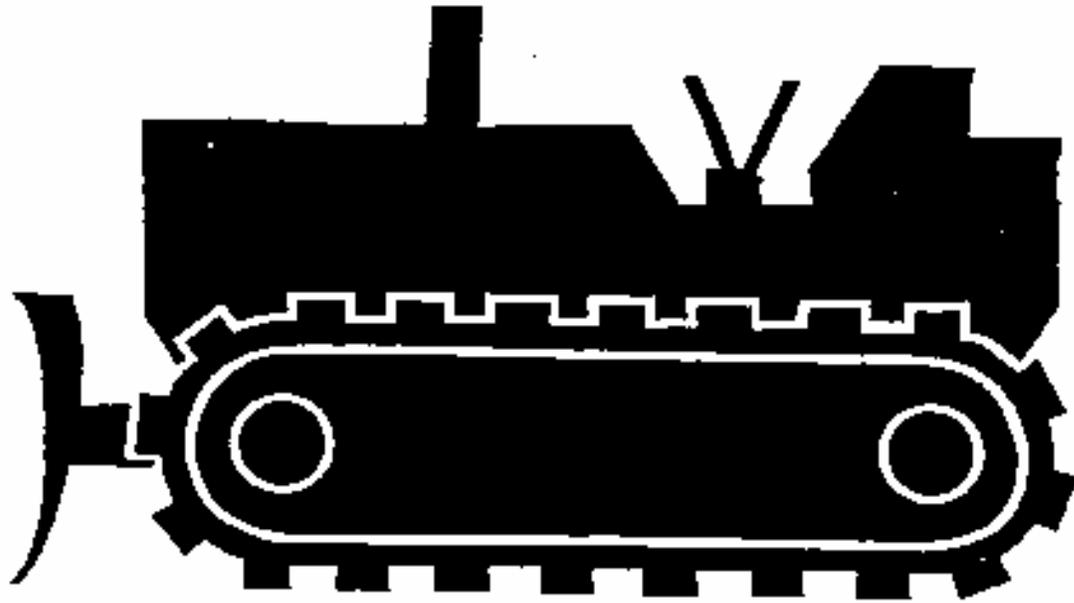
1. Safely operate and maintain the nuclear moisture/density meter in accordance with NAVSEA S0420-AA-RAD-010 and TROXLER 3400 Series Instruction Manual.
2. Understand and comply with the radiation safety program relevant to the nuclear moisture/density meter in accordance with NAVSEA S0420-AA-RAD-010 and NAVMED P-5055, Radiation Health Protection Manual.
3. Perform field moisture and density tests and calculations on soils and base courses.
4. Perform leak tests, maintain records and reports.
5. Perform emergency procedures involving the nuclear moisture/density/meter.
6. Maintain storage of equipment.

PREREQUISITES: None

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 450.1



EQUIPMENT
OPERATOR

EQUIPMENT OPERATOR "F" COURSES

CIN	SKILL	TITLE	TAUGHT AT	PAGE
A-730-0024	503.1	PLANNING, ESTIMATING AND SCHEDULING	PH/GP	6-2
A-730-0025	515.2	TRUCK TRACTOR AND TRAILER OPERATIONS	PH/GP	6-3
A-730-0023	522.3	ASPHALT PAVING OPERATIONS III	PH/GP	6-4
A-730-0027	526.2	SOIL STABILIZATION II	PH/GP	6-5
A-730-0037	534.1	CRANE RIGGING	PH/GP	6-6
A-730-0041	534.2	RIGGING GEAR INSPECTOR	PH/GP	6-7
X-730-8000	536.1	ROCK DRILL OPERATIONS	PH	6-8
A-730-0028	537.1	CRANES AND ATTACHMENTS I (HOOK BLOCK)	PH/GP	6-9
A-730-0029	538.1	CRANES AND ATTACHMENTS II (CLAMSHELL AND DRAGLINE)	PH/GP	6-10
A-730-0030	539.1	CRANES AND ATTACHMENTS III (PILE DRIVING)	PH/GP	6-11
A-730-0035	540.1S	GENERAL CRANE SAFETY	PH/GP	6-12
A-730-0042	540.1R	GENERAL CRANE SAFETY(REFRESHER)	PH/GP	6-13
A-730-0031	541.1	LOAD TEST DIRECTOR	PH/GP	6-14
A-730-0032	542.1	SCRAPER OPERATIONS I	PH/GP	6-15
A-730-0033	548.1	DITCHER OPERATIONS	PH/GP	6-16
A-730-0034	549.2	FRONT-END LOADER AND ATTACHMENTS II	PH/GP	6-17
A-730-0040	599.1	CATEGORY 4 CRANE SAFETY	PH/GP	6-18
A-730-0045	515.1	MEDIUM TACTICALVEHICLE REPLACEMENT OPERATORS COURSE	PH/GP	6-19

CIN: A-730-0024

TITLE: PLANNING, ESTIMATING, AND SCHEDULING (EO)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 432Z)
NAVCONSTRACEN Gulfport, MS (CDP 432Y)

LENGTH: 19 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Determine efficient crew size and assignments.
2. Determine equipment, manpower and material requirements.
3. Read, interpret and prepare precedence diagrams and mass diagrams.
4. Estimate equipment production.
5. Apply basic grade work and surveying principles.
6. Utilize Federal Supply Catalogs and Manufacturer's Parts Manual.

PREREQUISITES: E4 and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 503.1

CIN: A-730-0025

TITLE: TRUCK TRACTOR AND TRAILER OPERATIONS

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4340)
NAVCONSTRACEN Gulfport, MS (CDP 4332)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform pre-operational checks and operator's maintenance, and operate truck tractor and trailers.
2. Haul loose and palletized construction materials.
3. Direct balanced loading of equipment and materials.
4. Haul construction equipment.
5. Utilize portable and stationary ramps for loading equipment.
6. Check, brace, secure, and cover equipment and materials.

PREREQUISITES: EOCR and above and possess a valid U.S. Government driver's license for a 15-ton vehicle.

CLASS SIZE: Maximum: 8 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 515.2

CIN: A-730-0027

TITLE: SOIL STABILIZATION II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 435F)
NAVCONSTRACEN Gulfport, MS (CDP 435E)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Direct personnel and control equipment engaged in grading, tamping, rolling and smoothing areas to specification.
2. Use leveling instruments to set and verify grade stakes and curvature of graded surface.
3. Interpret and use the principles and methods of soil stabilization operations.
4. Perform operator's maintenance and operate the soil stabilizer mixer.
5. Use the mixer to aerate and mix wet or dry soils and maintain moisture uniformity for NCF soil stabilizing operations.
6. Utilize system accessories.
7. Secure and clean mixer.
8. Maintain operational records and reports.

PREREQUISITES: EOCN and above and possess a valid U.S. Government driver's license for a 15-ton vehicle. Skill 526.1.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 526.1
526.2

CIN: A-730-0037

TITLE: CRANE RIGGING/CAT 3

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP586K)
NAVCONSTRACEN Gulfport, MS (CDP586J)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course is designed for Crane Riggers and Category 3 Operators with the various requirements for safe lifting operations using cranes. This course covers topics such as, NAVFAC P-307 familiarization, rigging terminology, rigging gear application, basic knots, crane team concept, crane communication methods, specific lift requirements, determining load weights, basic load charts, and crane accident identification and response. This course provides the student with a foundation of knowledge to build upon drawing from operator's manuals and on-the-job training.

PREREQUISITES: None

CLASS SIZE: Maximum: 24

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 534.1 and 598.1

CIN: A-730-0041

TITLE: RIGGING GEAR INSPECTOR

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP5881)
NAVCONSTRACEN Gulfport, MS (CDP5880)

LENGTH: 1 day

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course presents the NAVFAC P-307 requirements for periodic rigging gear inspection and test. This course provides the student with a foundation of knowledge to build upon drawing from rigging manuals an on-the-job training.

PREREQUISITES: None

CLASS SIZE: Maximum: 24

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 534.2

CIN: X-730-8000

TITLE: ROCK DRILL OPERATIONS

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform operator's maintenance on portable air compressors, crawler mounted rock drills and portable rock drills.
2. Maneuver the crawler mounted rock drill on and off hauling trucks and trailers.
3. Drill vertical, horizontal and inclined blast holes, attaching and detaching drill bits, couplings and drill steel sections to change string.
4. Drill blast holes for secondary blasting with the portable pneumatic rock drill.

PREREQUISITES: EOCN/CMCN and above. CM, UT, SW as assigned.

CLASS SIZE: Maximum: 8 Minimum: 4

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
 NAVCONSTRACEN for all others.

NAVY SKILL: 536.1

NOTE: Funding required for travel plus 4 days lodging

CIN: A-730-0028

TITLE: CRANES AND ATTACHMENTS I (HOOK BLOCK)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP435H)
NAVCONSTRACEN Gulfport, MS (CDP 435G)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform prestart, during operation, and post operation checks.
2. Inspect routes to and from job site as well as job site for operating hazards such as electric wires, improper footing, and clearance for boom machine and counterweight.
3. Transport and set up cranes.
4. Change length of boom.
5. Rig hookblock and operate hydraulic and lattice boom cranes with hookblock and whipline at 75% of the crane's noted capacity for each crane as rigged.
6. Adjust clutches and brakes.
7. Comply with safety precautions pertaining to cranes.

PREREQUISITES: EOCN/CM3 and above. Posses a valid U.S. Government driver's license for 15-ton vehicle. Skill 515.2. Must also have Skill Level 540.1S or 540.1R as appropriate. Students are required to complete a High Risk Medical Criteria Form prior to class convening date.

COMSECOND/COMTHIRDNCBINST 11200.1, Section 6,2601, J, (2) applies.

CLASS SIZE: Maximum: 8 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 537.1

CIN: A-730-0029

TITLE: CRANES AND ATTACHMENTS II (CLAMSHELL AND DRAGLINE)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 435K)
NAVCONSTRACEN Gulfport, MS (CDP 435J)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Rig clamshell and dragline buckets.
2. Dig excavations, load trucks or hoppers with clamshell and dragline buckets.
3. Comply with safety precautions pertaining to cranes.

PREREQUISITES: EOCN/CM3 and above. Posses a valid U.S. Government driver's license for 15-ton vehicle. Skill 537.1. Students are required to complete a High Risk Medical Criteria Form prior to class convening date.

CLASS SIZE: Maximum: 8 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 538.1

CIN: A-730-0030

TITLE: PILE DRIVING/EXTRACTION

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 435N)
NAVCONSTRACEN Gulfport, MS (CDP 435M)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Rig a pile driver.
2. Drive piling with the pile driver.
3. Comply with safety precautions pertaining to cranes and pile driving.

PREREQUISITES: EOCN/CM3 and above. Posses a valid U.S. Government driver's license for 15-ton vehicle. Must have Skill Level 538.1. Students are required to complete a High Risk Medical Criteria Form prior to class convening date.

CLASS SIZE: Maximum: 8 Minimum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 539.1

CIN: A-730-0035

TITLE: GENERAL CRANE SAFETY

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP586E)
NAVCONSTRACEN Gulfport, MS (CDP5864)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course is designed to provide the required Navy Crane Center training to acquaint the new crane operators of the various requirements for the safe operation of cranes ranging from overhead electrical traveling (OET) to large boom cranes. This course covers topics such as, NAVFAC P-307 familiarization, crane and lift types, pre-use inspections, basic rules and procedures for safe operation, communication, specific lifting requirements, basic rigging gear inspection and use, determining weights, calculating capacities, and crane accident response. This course provides the student with a foundation of knowledge to build upon drawing from operator's manuals and on-the-job.

PREREQUISITES: None

CLASS SIZE: Maximum: 24

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 540.1S

CIN: A-730-0042

TITLE: GENERAL CRANE SAFETY (REFERSHER)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP5883)
NAVCONSTRACEN Gulfport, MS (CDP5882)

LENGTH: 1 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course is designed to provide the required Navy Crane Center training to acquaint the new crane operators of the various requirements for the safe operation of cranes ranging from overhead electrical traveling (OET) to large boom cranes. This course covers topics such as, NAVFAC P-307 familiarization, crane and lift types, pre-use inspections, basic rules and procedures for safe operation, communication, specific lifting requirements, basic rigging gear inspection and use, determining weights, calculating capacities, and crane accident response. This course provides the student with a foundation of knowledge to build upon drawing from operator's manuals and on-the-job.

PREREQUISITES: Navy Skill 540.1

CLASS SIZE: Maximum: 24

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 540.1R

CIN: A-730-0031

TITLE: LOAD TEST DIRECTOR

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 435R)
NAVCONSTRACEN Gulfport, MS (CDP 435P)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course is designed to provide the required Navy Crane Center training to personnel assigned to crane crews and load test directors. This course provides the student with a foundation of knowledge to build upon drawing from operator's manuals and on-the-job.

PREREQUISITES: Navy Skill 540.1S

CLASS SIZE: Maximum: 8

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 541.1

NOTE: It is recommended that NCF Equipment Officers attend this course.

CIN: A-730-0032

TITLE: SCRAPER OPERATIONS I

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 435T)
NAVCONSTRACEN Gulfport, MS (CDP 435S)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform a pre-start check, correct deficiencies, lubricate, service, and report discrepancies on a scraper and a prime mover.
2. Remove, replace and tighten cutting edges and wear plates.
3. Adjust drive belts, service air cleaners, breathers, and fuel filters.
4. Start the engine, check instruments and operation of all systems.
5. Operate the scraper with a prime mover.
6. Reduce speed with retarder, load scraper on level terrain without a push tractor.
7. Haul and dump load in six-inch lift.
8. Secure the scraper.
9. Maintain records and reports.

PREREQUISITES: EOCR and above.

CLASS SIZE: Maximum: 8

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 542.1

CIN: A-730-0033

TITLE: DITCHER OPERATIONS

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 435V)
NAVCONSTRACEN Gulfport, MS (CDP 435U)

LENGTH: 3 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform pre-start checks on the 18 to 24-inch self-propelled ladder or wheel ditching machine and correct or report discrepancies.
2. Remove and replace tires, buckets, bucket teeth, extensions, drive chains and links.
3. Perform daily operator's lubrication and equipment services, start power unit and check instruments.
4. Walk the ditcher on and off a low bed or tilt-top trailer and tie down for transporting.
5. Adjust the master and steering clutches, brakes, tracks, drive and bucket line chains.
6. Perform excavation maintaining vertical and horizontal alignment.
7. Maintain operational and trouble reports.

PREREQUISITES: EOCR and above.

CLASS SIZE: Maximum: 6 Minimum: 4

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 548.1

CIN: A-730-0034

TITLE: FRONT-END LOADER AND ATTACHMENTS II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 435X)
NAVCONSTRACEN Gulfport, MS (CDP 435W)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform maintenance and operations checks.
2. Remove, replace or install counterweights, backhoe, forklift and bucket attachments.
3. Operate the backhoe attachment to excavate pits and trenches.

PREREQUISITES: EOCR and above.

CLASS SIZE: Maximum: 8 Minimum: 4

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 549.2

CIN: A-730-0040

TITLE: CATEGORY 4 CRANE SAFETY

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 587T)
NAVCONSTRACEN Gulfport, MS (CDP 587C)

LENGTH: 3 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: This course is designed to provide Category 4 operators with the basic information to lift and handle loads safely. This course provides the student with a foundation of knowledge to build upon drawing from operator's manuals and on-the-job training. This course or General Crane Safety is required to receive a license for CAT 4 cranes.

PREREQUISITES: None

CLASS SIZE: Maximum: 24

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 599.1

CIN: A-730-0045

TITLE: MEDIUM TACTICAL VEHICLE REPLACEMENT (MTVR) OPERATOR

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 7514)
NAVCONSTRACEN Gulfport, MS (CDP 7515)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: To train Naval Construction Force personnel to operate the Medium Tactical Vehicle Replacement (MTVR), install/remove ancillary equipment, operate support equipment, and perform operator maintenance. Students will demonstrate their knowledge and skills using training equipment while observing all personnel and equipment safety precautions in accordance with the instructions in TM 10629-10, U. S. Marine Corps Technical Manual.

SCOPE: Course content includes;

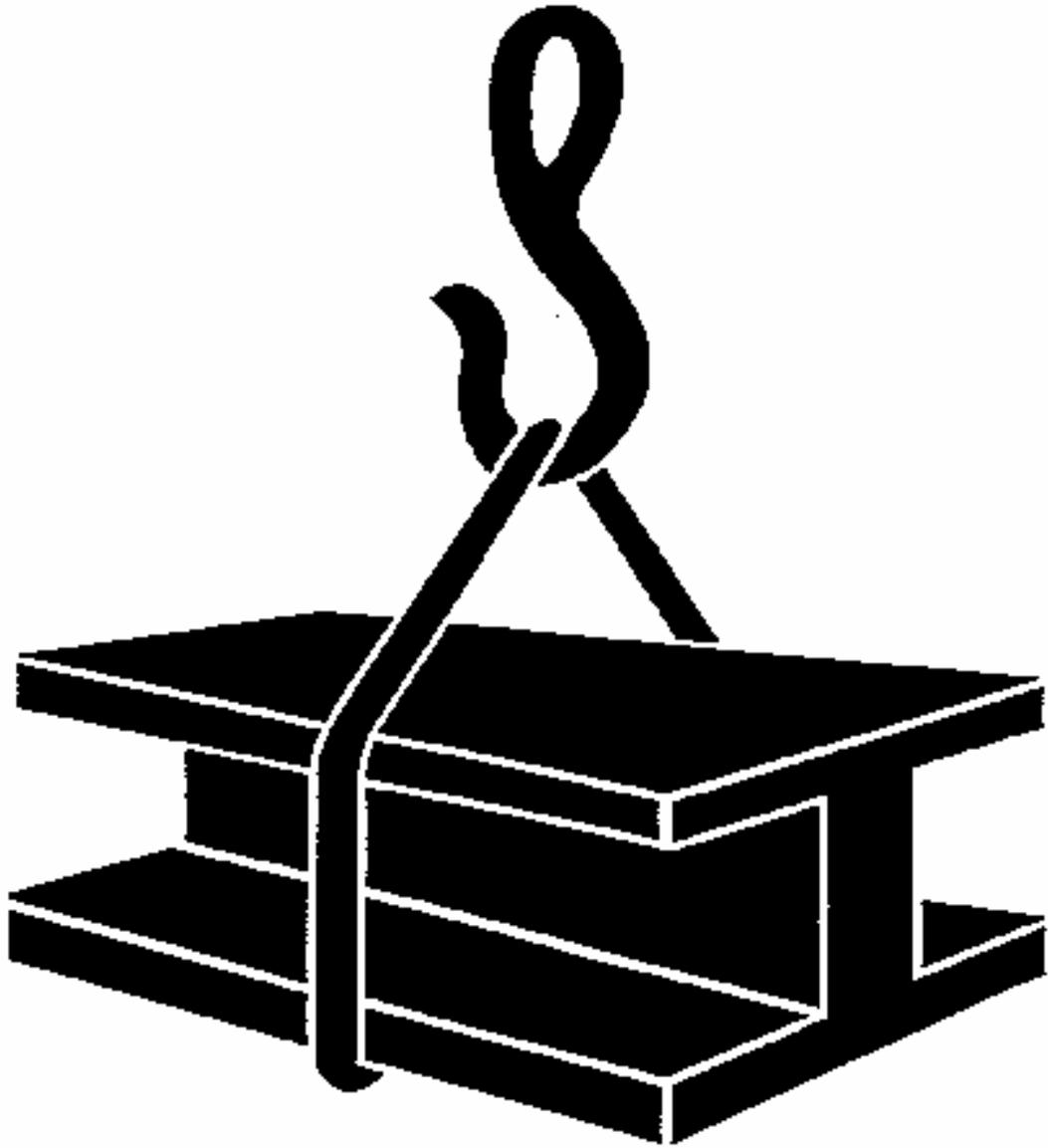
1. General description
2. Operating procedures
3. Operation under specific conditions
4. Operation of equipment used in conjunction with major items
5. Operator Maintenance

PREREQUISITES: Valid state license and 15 TON and/or 900 series government license

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 515.1



STEELWORKER

STEELWORKER "F" COURSES

<u>CIN</u>	<u>SKILL</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-711-0021	603.1	PLANNING, ESTIMATING AND SCHEDULING	PH/GP	7-2
A-711-0022	610.2	ARC WELDING (STRUCTURAL) II	PH/GP	7-3
A-711-0023	612.1	ARC WELDING (PIPE)	PH/GP	7-4
A-711-0024	615.2	GAS CUTTING AND WELDING II	PH/GP	7-5
A-711-0025	615.3	GAS CUTTING AND WELDING III	PH/GP	7-6
A-711-0002	618.1	SHIELDED INERT GAS WELDING	PH/GP	7-7
A-711-0001	619.1	MAINTENANCE WELDING	PH/GP	7-8
A-711-0026	620.2	SHEETMETAL WORK II	PH/GP	7-9
A-711-0027	630.2	STEEL REINFORCING II	PH/GP	7-10
A-711-0028	634.2	RIGGING II	PH/GP	7-11

CIN: A-711-0021

TITLE: PLANNING, ESTIMATING, AND SCHEDULING (SW)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 4367)
NAVCONSTRACEN Gulfport, MS (CDP 4366)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Determine efficient crew sizes and assignments.
2. Determine equipment, manpower, and material requirements.
3. Utilize Federal Supply Catalogs and manufacturer's parts manuals.
4. Read, interpret and prepare network analysis including precedence diagrams.

PREREQUISITES: E4 and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 603.1

CIN: A-711-0022

TITLE: ARC WELDING (STRUCTURAL) II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 436B)
NAVCONSTRACEN Gulfport, MS (CDP 436A)

LENGTH: 19 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Read and interpret welding symbols.
2. Prescribe type and size of electrode and specify welding procedures.
3. Weld mild steel 3/8" plate in vertical and overhead positions as per AWS D1.1.

PREREQUISITES: SW3 and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 610.2

NOTE: Personnel completing this course will be given the opportunity to certify in accordance with American Welding Society D1.1 Current Edition.

CIN: A-711-0023

TITLE: ARC WELDING (PIPE)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 436D)
NAVCONSTRACEN Gulfport, MS (CDP 436C)

LENGTH: 19 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Perform correct techniques for welding pipe, i.e.:
 - a. Machine setting, polarity, length of arc, speed of travel.
 - b. Selection of correct electrode and correct angle of electrode required to groove weld pipe of unlimited wall thickness in the vertical fixed, and horizontal fixed restricted positions.
2. Prepare pipe for welding by beveling, cleaning, aligning, spacing, and tack welding.
3. Dress welds for bend testing.

PREREQUISITES: SW3 or above and Skill 610.2.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 612.1

NOTE: Personnel completing this course will be given the opportunity to certify in accordance with American Welding Society D1.1 Current Edition.

CIN: A-711-0024

TITLE: GAS CUTTING AND WELDING II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 436F)
NAVCONSTRACEN Gulfport, MS (CDP 436E)

LENGTH: 19 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Read and interpret welding symbols.
2. Prescribe the type and sizes of rod and specify welding procedures.
3. Prepare and gas weld mild steel pipe up to .218" wall thickness.
4. Perform heat treatment of metals using field methods.
5. Braze and solder metal parts and shapes, including the use of silver solder.

PREREQUISITES: SWCN and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 615.2

CIN: A-711-0025

TITLE: GAS CUTTING AND WELDING III

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 436H)
NAVCONSTRACEN Gulfport, MS (CDP 436G)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Calculate welding off sets.
2. Perform pipe layout with a wrap around.
3. Properly utilize contour marker, centering head, magnetic levels and pre-fabricated pipe wraparounds.
4. Lay out and flame cut, and join by tacking by SMAW a 3-piece 90 degree elbow, "Y" joint, "T" joint, 2-piece 90 degree elbow, a 45 degree branch connection and end caps on Schedule 40/60 mild steel pipe up to 4" in diameter.

PREREQUISITES: SW3 and above. Skill 615.2.

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 615.3

CIN: A-711-0002

TITLE: SHIELDED INERT GAS WELDING

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752Z)
NAVCONSTRACEN Gulfport, MS (CDP 3753)

LENGTH: 19 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in advanced welding (3/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Identify, set up, use and care for all items in the NMCB Combination Electric Arc-Inert Gas Welding Kit.
2. Perform Gas Metal Arc (GMA) Welding in the vertical and overhead positions on ferrous and nonferrous metals up to and including 3/8" thickness.
3. Perform Gas Tungsten Arc (GTA) Welding in the flat and horizontal positions on ferrous and nonferrous metals up to and including .050 thickness, including selection of welding wire and method.

PREREQUISITES: SW3 and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 618.1

CIN: A-711-0001

TITLE: MAINTENANCE WELDING

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752X)
NAVCONSTRACEN Gulfport, MS (CDP 3531)

LENGTH: 26 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 3 semester hours in basic welding (3/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Identify, set up, and operate welding equipment using metallurgy and stress analysis relating to welding repair.
2. Evaluate, prepare and select proper filler metals.
3. Repair welding machine and equipment.
4. Use proper welding techniques.
5. Make repairs under adverse conditions.

PREREQUISITES: SW3/HT3 and above. Skill 610.2.

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 619.1

CIN: A-711-0026

TITLE: SHEETMETAL WORK II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 436K)
NAVCONSTRACEN Gulfport, MS (CDP 436J)

LENGTH: 19 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Lay out and fabricate complex fittings, offsets, offset square to rounds, elbows, "Y" joints, and "T" joints in accordance with blueprints and specifications.

PREREQUISITES: SWCA and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 620.2

CIN: A-711-0027

TITLE: STEEL REINFORCING II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 436M)
NAVCONSTRACEN Gulfport, MS (CDP 436L)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Read and interpret construction drawings.
2. Work from details and bending schedules.
3. Lay out bar sizes and shapes, bending tables, jigs, and templates.
4. Prescribe and use marking and tagging codes.
5. Operate and maintain power shears and benders.

PREREQUISITES: SWCN and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 630.2

CIN: A-711-0028

TITLE: RIGGING II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 436S)
NAVCONSTRACEN Gulfport, MS (CDP 436R)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

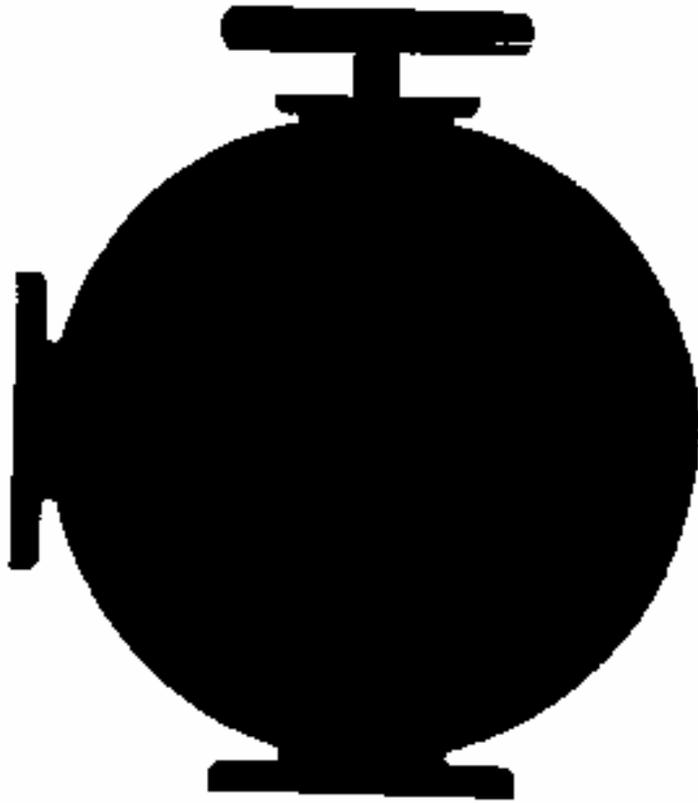
1. Calculate weight of object to be moved, lifted, and suspended.
2. Determine safe working load of various hoisting devices and tackle and prescribe arrangements.
3. Lay out, erect, inspect, and test rigging and hoisting devices such as "A" frame, gin pole, tripod and derricks, including hold fast arrangements.

PREREQUISITES: SWCN/BUCN/EOCN and above.

CLASS SIZE: Maximum: 12 Minimum: 6

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL 634.2



UTILITIESMAN

UTILITIESMAN “F” COURSES

<u>CIN</u>	<u>PRCP</u>	<u>TITLE</u>	<u>TAUGHT AT</u>	<u>PAGE</u>
A-720 0037	703.1	PLANNING, ESTIMATING, AND SCHEDULING (UT)	PH/GP	8-2
A-720-0038	710.2	PLUMBING AND PIPEFITTING II	PH/GP	8-3
A-720-0002	720.2	SHORE BASED BOILERS II	PH/GP	8-4
A-720-0003	730.2	PUMPS AND COMPRESSORS II	PH/GP	8-5
A-720-0011	740.2	WATER TREATMENT II	PH/GP	8-6
A-720-0001	750.1	SEWAGE DISPOSAL AND FIELD SANITATION	PH/GP	8-7
A-720-0014	760.1	AIR CONDITIONING AND REFRIGERATION	PH/GP	8-8
A-720-0036	761.1	EPA REFRIGERANT HANDLING CERTIFICATION	PH/GP	8-9
A-720-0016		APPLIANCE INSTALLATION AND MAINTENANCE	PH/GP	8-10

CIN: A-720-0037

TITLE: PLANNING, ESTIMATING AND SCHEDULING (UT)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 7538)
NAVCONSTRACEN Gulfport, MS (CDP 181K)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to construction estimating and scheduling (3/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Utilize estimate worksheets, precedence networks and the CBCM computer program in accordance with the Seabee Planners and Estimators Handbook, NAVFAC P-405.

PREREQUISITES: E2 and above. Students must exhibit competence in reading and interpreting drawings and specifications.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 703.1

CIN: A-720-0038

TITLE: PLUMBING AND PIPEFITTING II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 753B)
NAVCONSTRACEN Gulfport, MS (CDP 2011)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 2 semester hours in basic plumbing systems (3/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Install and maintain plumbing systems in accordance with Utilitiesman Rate Training Manual.

PREREQUISITES: UTCN and above. Exhibited competence in reading and interpreting drawings and specifications.

CLASS SIZE: Maximum: 12 Minimum: 4

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL 710.2

CIN: A-720-0002

TITLE: SHORE BASED BOILERS II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 7531)
NAVCONSTRACEN Gulfport, MS (CDP 369C)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Maintain packaged boilers and auxiliary equipment using test equipment, hand and power tools.
2. Adjust and repair steam, oil and air pressure controls, temperature control, water level control and control devices.
3. Replace refractory, tubes, gaskets, and safety valves.
4. Adjust or repair auxiliary equipment such as the burner feed water pump, steam injector, steam traps, heat exchanger, and miscellaneous regulators, meters and gauges.

PREREQUISITES: UT3 and above. Skill 710.2.

CLASS SIZE: Maximum: 12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 720.2

CIN: A-720-0003

TITLE: PUMPS AND COMPRESSORS II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 428V)
NAVCONSTRACEN Gulfport, MS (CDP 428U)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Diagnose, adjust, and/or repair pumps and compressors and perform preventive maintenance on pumps.

PREREQUISITES: UTCN and above.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 730.2

CIN: A-720-0011

TITLE: WATER TREATMENT II

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 7535)
NAVCONSTRACEN Gulfport, MS (CDP 3396)

LENGTH: 12 days

RECOMMENDED CREDIT: In accordance with ACE Guide, in the lower-division baccalaureate/associate degree category, 2 semester hours in water treatment technology and applied science (3/00).

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Produce potable water from nonpotable water sources by operating a 3000-D diatomite water purification unit and reverse osmosis water purification unit.

PREREQUISITES: UTCN and above.

CLASS SIZE: Maximum: 12 Minimum: 2

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
P - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 740.2

CIN: A-720-0001

TITLE: SEWAGE DISPOSAL AND FIELD SANITATION

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 3615)
NAVCONSTRACEN Gulfport, MS (CDP 3612)

LENGTH: 4 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Describe the principals of sewage disposal, construction and installation procedures of sewage disposal and field sanitation systems and perform test for soil leaching.

PREREQUISITES: UTCN and above.

CLASS SIZE: Maximum: 12 Minimum: 2

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 750.1

CIN: A-720-0014

TITLE: AIR CONDITIONING AND REFRIGERATION

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 3002)
NAVCONSTRACEN Gulfport, MS (CDP 2639)

LENGTH: 12 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Apply air conditioning and refrigeration fundamentals.
2. Install refrigeration unit piping and components, charge the system and inspect for leaks.
3. Maintain refrigeration and air conditioning electrical circuitry components, protection devices and test instruments.
4. Perform troubleshooting procedures.

PREREQUISITES: UTCN and above. Exhibited competence in reading and interpreting drawings and specifications.

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 760.1

CIN: A-720-0036

TITLE: EPA REFRIGERANT HANDLING CERTIFICATION

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 038K)
NAVCONSTRACEN Gulfport, MS (CDP 0377)

LENGTH: 3 days

RECOMMENDED CREDIT: None

CONVENING SCHEDULE: See CANTRAC Volume II

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Certify as a refrigerant handling technician in accordance with Title 40, CFR, Section 608..

PREREQUISITES: Military, Utilitiesman "A" and Skill 760.1

CLASS SIZE: Maximum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 761.1

CIN: A-720-0016

TITLE: APPLIANCE INSTALLATION AND MAINTENANCE

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP3004)
NAVCONSTRACEN Gulfport, MS (CDP3003)

LENGTH: 3 days

RECOMMENDED CREDIT: None

CONVENING SCHEDULE: See CANTRAC Volume II

COURSE OBJECTIVE: Upon completion of this course, the student will:

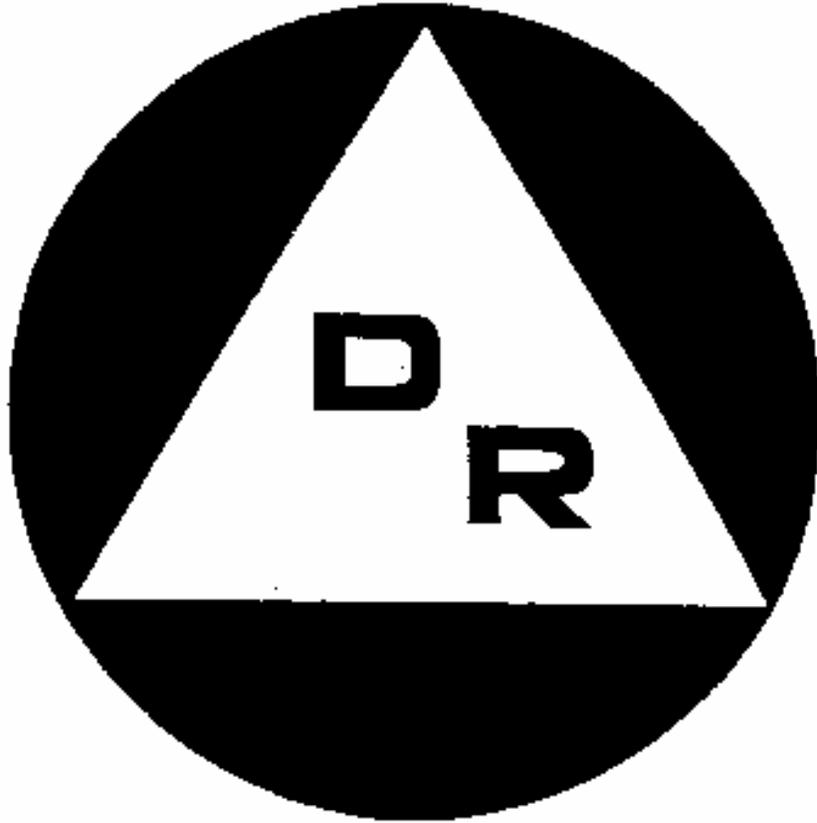
1. Install and maintain electric washers and dryers.

PREREQUISITES: UT/CE E3 and above

CLASS SIZE: Maximum: 6

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: None



DISASTER
RECOVERY

DISASTER RECOVERY "F" COURSES

CIN	SKILL	TITLE	TAUGHT AT	PAGE
A-494-0007	981.1	COMMAND CENTER STAFF, CBR-D OPERATIONS	PH/GP	9-2
A-494-0008	980.1	CHEMICAL, BIOLOGICAL/RADIOLOGICAL PERSONAL PROTECTION/DECONTAMINATION	PH/GP	9-3
A-494-0009	982.1	CBR TEAM TRAINING	PH/GP	9-4
A-494-0010	979.1	BASIC RESCUE	PH/GP	9-5

CIN: A-494-0007

TITLE: COMMAND CENTER STAFF CBR-D OPERATIONS

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752N)
NAVCONSTRACEN Port Hueneme, CA, MTT (CDP 759R)
NAVCONSTRACEN Gulfport, MS (CDP 722T)
NAVCONSTRACEN Gulfport, MS, MTT (CDP 759G)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Describe the Disaster Preparedness Organization as defined in applicable instructions as it pertains to mission, concept of operations, capabilities, standards, training requirements, types of disasters, actions, chain of command and battalion organization.
2. Describe CBR defensive measures as it pertains to threat, analyze vulnerability and measures of reduction.
3. Describe the NBC warning and reporting system, plot contamination events.
4. Take cloud measurements, record burst data and information in the NCB 1 report, locate ground zero and estimate yield of a nuclear burst.
5. Construct both detailed and simplified fallout prediction plots.
6. Use operational exposure guidance to manage radiation exposure of troops.
7. Calculate radiation decay rate mathematically, graphically and by using nomograms.
8. Organize a control center and effect a radiological defensive operation.
9. Become familiar with CBR team functions, methods of operations and equipment used.
10. Organize a control center and effect a chemical defensive operation.

PREREQUISITES: Military personnel, pay grades E-6 through O-6. Must have Skill 980.1, Skill 982.1 recommended.

CLASS SIZE: Maximum: 24 Minimum: 12

QUOTA CONTROL: PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 981.1

CIN: A-494-0008

TITLE: CHEMICAL, BIOLOGICAL/RADIOLOGICAL (CBR) PERSONAL PROTECTION/DECONTAMINATION (INDIVIDUAL)

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 752P)
NAVCONSTRACEN Port Hueneme, CA, MTT (CDP 759T)
NAVCONSTRACEN Gulfport, MS (CDP 444J)
NAVCONSTRACEN Gulfport, MS, MTT (CDP 759H)

LENGTH: 1 day

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Describe characteristics and effects of chemical and biological agents, nuclear weapons and radiological hazards.
2. Demonstrate proficiency in CBR defensive measures, i.e., recognize nuclear and chemical attacks, take protective action, realize effects of biological attack, take protective measures against the spread of disease, recognize CBR alarms and signals, take protective measures against initial and residual effects of a nuclear burst, perform self and buddy aid, recognize or detect chemical agent contamination, perform personal decon, recognize standard marking signs, use radiation dosimeters.
3. Properly use individual CBR protective equipment and maintain it in a high state of serviceability, don, seat and check protective mask within nine seconds, properly don protective clothing, process from MOPP Level II to MOPP Level III in 15 seconds.
4. Properly exchange contaminated MOPP gear (hasty decon).
5. Complete a confidence chamber exercise.

PREREQUISITES: NONE

CLASS SIZE: Maximum: PH-32 Minimum: PH-24
 GP-48 GP-12

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
 NAVCONSTRACEN for all others.
 GP - SRG Atlantic for NMCB and USMCR Commands:
 NAVCONSTRACEN for all others.

NAVY SKILL: 980.1

CIN: A-494-0009

TITLE: CBR TEAM TRAINING

TAUGHT AT: NAVCONSTRACEN Port Hueneme, CA (CDP 582D)
NAVCONSTRACEN Port Hueneme, CA, MTT (CDP 759S)
NAVCONSTRACEN Gulfport, MS (CDP 582E)
NAVCONSTRACEN Gulfport, MS, MTT (CDP 759J)

LENGTH: 5 days

RECOMMENDED CREDIT: None

COURSE OBJECTIVE: Upon completion of this course, the student will:

1. Demonstrate an understanding of the disaster preparedness organization as defined in applicable instructions as it pertains to unit mission, concept of operations, capabilities, standards, training requirements, types of disasters, actions, chain of command and battalion organization while serving as a member of a CBR team.
2. Recognize and report the presents of liquid chemical agents.
3. Perform servicing, connection, employment and monitoring procedures of the automatic chemical alarm.
4. Use the M256 and NBC marking kits to identify and mark contaminated areas.
5. Perform as a member of a chemical survey/recon team, conduct rapid, detailed and supplementary type surveys.
6. Select and use decontamination agents.
7. Operate decontamination equipment and apparatus.
8. Set-up and operate a field decon station.
9. Operate radiac instruments and dosimetry devices.
10. Perform as a member of a radiological survey/recon team.
11. Perform radiological decon of personnel, equipment and areas.
12. Participate in a chemical defensive operation locating, identifying, marking and decontaminating simulated chemical agents.

PREREQUISITES: PRCP Skill 980.1. Students are required to complete a High Risk Medical Criteria Form prior to class convening date. Forms are available through the NCR Training Coordinator's Office for NMCB and USMCR Commands and also the NAVCONSTRACEN SCBT Coordinator's Office.

CLASS SIZE: Maximum: 32 Minimum: 24

QUOTA CONTROL PH - SRG Pacific for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.
GP - SRG Atlantic for NMCB and USMCR Commands:
NAVCONSTRACEN for all others.

NAVY SKILL: 982.1

