



Catalog of Nonresident Training Courses (NRTCs)

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NAVEDTRA 12061

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This catalog is also available on the BUPERS CD ROM which is available from

<https://buperscd.technology.navy.mil/>.

Distribution Statement A: Approved for public release; distribution is unlimited

Section 1

Course Administration for ESOs and Training Officers

Changes to the NRTC Program

The change in NRTC administration announced by NAVADMIN 0333/00 is complete. NRTCs are no longer available through the supply system. They must be obtained from, and graded by, NETPDTC. All copies of answer keys should be disposed of by burning or shredding since local grading is no longer authorized. Obsolete NRTCs should be discarded. Feedback reports are not necessary.

NAVADMIN 042/00 sets the responsibility for documenting course completion with the member's command. Course completion information can be obtained from the course completion letter issued to the individual by NETPDTC or from the "Command Representative" function at <https://www.courses.cnet.navy.mil/>.

NETPDTC sends course completion information to NRPC New Orleans and to the member's Electronic Training Jacket.

These changes to the NRTC program will assist in removing the administrative burden from commands while ensuring the NRTC program remains responsive to the needs of Sailors and commands.

Bulk Ordering Courses

NRTCs may not be bulk ordered. Commands desiring to stock printed course materials must order the courses on [CD ROM](#), or download from <https://www.advancement.cnet.navy.mil/>, then print the course material locally. The Naval Advancement Center advises against stocking printed course material since these courses frequently change and you risk issuing outdated courses. When Sailors enroll in a course they routinely receive course material within two to three weeks.

Command Representative

The Naval Advancement Center has developed a "Command Representative" function on <https://www.courses.cnet.navy.mil/> to facilitate commands with the enrollment and tracking of their members' NRTCs. If your command wants to acquire a Command Representative account, or needs to retrieve their password, send a request to the address below. Phone, fax, or e-mail requests will not be accepted.

**Address Naval
Message to:**

**Address letter on command letterhead, signed by Commanding Officer or By Direction,
to:**

NETPDTC N331

**COMMANDING OFFICER, NETPDTC N331, 6490 SAUFLEY FIELD ROAD,
PENSACOLA FL 32559-5000**

Both messages and letters should include the command's UIC, shipping address, and point of contact information (Name, Rank/Rate,Phone, e-mail).

For information, contact Fleet Services at (850) 452-1001, ext. 2073 (DSN 922) 1001, ext. 2073 or e-mail: SFLY_Fleetservices@navy.mil.

Section 1

NRTC Terms and Definitions

Nonresident Training	Training that takes place outside the institutional (resident) training location.
Special Publications (SP)	SPs are manuals or catalogs that provide information of general benefit to all Navy personnel. SP publications do not have associated course assignments and are not available in print. SPs can be downloaded from https://www.advancement.cnet.navy.mil/ .
Nonresident Training Course (NRTC)	A self-study package designed to help a student acquire Navy professional or military knowledge in preparation for an advancement exam. The package normally consists of a course text and a set of course assignments, and may be delivered in printed or digital form or both. Some NRTC's require the member to obtain the existing manual, instruction, or an off-the-shelf commercial textbook.
NRTC Content	Some NRTCs are developed for specific ratings (e.g., MN, BM, QM, etc.) or communities of ratings with shared occupational knowledge (e.g., electricity/electronics: ET, EM, AT, STG, etc.). Other courses cover military knowledge information and are applicable to all ratings. Both kinds of NRTCs often refer the learner to other publications for additional or detailed information.
Credit for Course Completion	To receive credit for completing an NRTC, the member must achieve a minimum overall grade of 3.2. Overall grades are calculated by averaging individual course assignments.
Course Enrollment	Members enroll in unclassified courses through https://www.courses.cnet.navy.mil/ much like enrolling in a college course. Classified courses are obtained by local commands for members. Local commands must enroll students by naval message or by command letterhead signed "By Direction". Local commands may also enroll members in unclassified and classified courses by through the Command Representative option at https://www.courses.cnet.navy.mil/ .
Retirement Points	Naval Reservists may earn retirement points for successful course completion as authorized under current directives. Active duty personnel do not receive retirement points. More information on retirement points can be found at http://www.nrpc.nola.navy.mil/retirement.htm . The course listing section of this catalog lists retirement points awarded for each course. NETPDTC reports course completions to NRPC New Orleans on the first Monday of each month.

Section 1

Points of Contact

Question	Contact
Advancement Exam Development	(850) 452-1001, Ext. 2163 or DSN: 922-1001, Ext. 2163 e-mail: SFLY_NAVY_ADVANCEMEN@navy.mil
Advancement Exam Discrepancies, Administration, or Shipping	(850) 452-1252 or DSN: 922-1252 e-mail: SFLY_EXAM_QUESTION@navy.mil
NETPDTC Nonresident Training Course Administration (Central Enrollment) or this catalog	DSN: 922-1511(850) 452-1511 or Toll Free: 877-264-8583 (0700-1500 CST) e-mail: SFLY_Fleetservices@navy.mil
AW, ET(SS), FC, FT, IS, IT, MM(SS), MN, MT, OS, STG, STS, TM or Nuclear ratings	(850) 452-1500 or DSN: 922-1500 e-mail: SFLY_Products_N311@nmci-isf.com
AK, DK, DM, DN, DT, HM, HN, JO, LI, LN, MA, MS, MU, NC, PC, PH, PN, RP, SH, SK, YN	(850) 452-1001, Ext. 2167 or DSN: 922-1001, Ext. 2167 e-mail: SFLY_Products_N313@navy.mil
BM, BU, CE, CM, CN, DC, EA, EM, EN, EO, FN, GS, HT, IC, MM(SW), MR, QM, SM, SN, SW, UT	(850) 452-1001, Ext. 1826 or DSN: 922-1001, Ext. 1826 e-mail: SFLY_Products_N314@nmci-isf.com
AB, AC, AD, AE, AG, AM, AN, AO, AS, AT, AZ, ET(SW), GM, PR	(850) 452-1001, Ext. 1713 or DSN: 922-1001, Ext. 1713 e-mail: SFLY_Products_N315@navy.mil

**CTA, CTI, CTM,
CTO, CTR, CTT,
EW**

(850) 452-1688 or DSN 922-1688

e-mail: SFLY_CRYPTOLOGIC.PRODUCTS@navy.mil

Section 1

NRTC Enrollment Information

TOPICS COVERED

<u>Unclassified Courses</u>	<u>NRTC Completion Time-Limits</u>	<u>Re-enrollment in a failed course</u>
<u>Classified Courses</u>	<u>Grading Courses</u>	<u>Withdrawing from a course</u>
<u>Course Materials</u>	<u>Course Completion</u>	<u>Replacing Lost Courses</u>
<u>Number of Courses</u>	<u>Failed Assignments</u>	

UNCLASSIFIED COURSES

Who may enroll	Active duty, Reserve, and Retired members of the U.S. Navy, Marines, Coast Guard, and DON Civilians	
Methods of enrollment	The Internet is the preferred method. Members (except USCG) may use https://www.courses.cnet.navy.mil/ to enroll in courses. ESOs, Command Career Counselors, and others designated by their command may use the Command Representative function on the same Web site to enroll members of their command.	
E-mail	SFLY_Fleetservices@navy.mil	
FAX	(850) 452-1370 DSN - 922-1370	
Telephone	Toll Free 877-264-8583 (850) 452-1181/1151/1859 DSN 922-1181/1151/1859 (0600-1500 EST)	
U.S. Mail	COMMANDING OFFICER NETPDTC N331 6490 SAUFLEY FIELD ROAD PENSACOLA FL 32559-5000	
Minimum information required for enrollment	Course NAVEDTRA and Title	Branch of Service
	First and Last Name	Status (Active, Drilling Reserve, , Retired, IRR, etc.
	SSN	Mailing Address
	Rank/Rate	Phone or E-mail Address

CLASSIFIED COURSES

Who may enroll Active duty and Reserve members of the U.S. Navy and Marine Corps

Methods of enrollment

Individuals may not enroll themselves in classified courses. Commands must make the enrollment through the Command Representative function listed above, by Naval message, or by letter on command letterhead signed by the Commanding Officer or with "by direction" authority.

Minimum information required for enrollment

Course NAVEDTRA and Title	Branch of Service
First and Last Name	Status (Active, Drilling Reserve, , Retired, IRR, etc.
SSN	Mailing Address
Rank/Rate	Phone or E-mail Address
Point of Contact with phone number or e-mail address	Unit Identification code

GENERAL INFORMATION**Course materials**

The only way to get course materials is to enroll in a course. We do not provide course materials to create personal or command libraries or to meet the requirements of an instruction or regulation. [NRTC CD](#) sets for are available to commands these purposes.

Number of Courses

You may be enrolled in up to four courses at one time.

NRTC completion time limits

A course must be completed within 12 months from the date of enrollment. The 12-month period includes time taken for resubmitting failed assignments.

Grading courses

There are two methods of getting a course graded that you enrolled in through Central Enrollment.

1. Assignments may be submitted to our Web site as they are completed and result in instant scoring. Your completion letter is available as soon as you pass all assignments. To submit assignments go to <https://www.courses.cnet.navy.mil/>, log in to Student Services, then click on "View Info/Submit Answers."

2. If we mail you *answer sheets, you may submit them to the address on the answer sheet for grading once you have completed all assignments. We will mail you a completion letter once you have successfully completed the course.

***Reproduced answer sheets, even ones copied with digital scanners, will not**

work on our optical mark recognition scanner and will be returned ungraded.

Course completion

The course is successfully completed once all assignments are submitted and you have a 3.2 or higher average on all assignments. When you complete the course we will mail you a completion letter, or you can download it from <https://www.courses.cnet.navy.mil/>. Once a course is successfully completed you may not submit more assignments.

Failed assignments

A assignment with a score less than 3.2 is considered a failure. Failed assignments may not be resubmitted until all assignments have been submitted and graded. Failed assignments may only be resubmitted once. If your average score for all assignments is 3.2 or higher you will not need to resubmit failed assignments.

Re-enrollment in a failed course

If you fail a course we will dis-enroll you from the course and you may not re-enroll in that course for six months. If you score below a 2.0 on the course you must wait 12 months from the original enrollment date before you can re-enroll in the course and it will continue to count as one of the four courses you may be enrolled in at any one time until the 12 month period elapses. Waivers for this policy will be granted when requested in writing by your Commanding Officer.

Withdrawing from a course

Due to administrative, printing, and distribution costs, we expect you to complete courses you enroll in. You should not enroll in a course just to get the text book. You can get the books by downloading them from <https://www.advancement.cnet.navy.mil/> or from the NRTC CD ROM sets we make available to all commands.

If you enroll in a course because you plan to change rates, or are in a Striker Selection Program, and you do not change rates, or can not strike for that rate, you must still complete the course. Waivers for this policy will be granted when requested in writing by your Commanding Officer.

Replacing lost courses

If you lose your course materials you must download the course from <https://www.advancement.cnet.navy.mil/> or get it from the NRTC CD ROM sets we make available to all commands. We will also replace course materials when requested in writing by your Commanding Officer.

Section 1

NRTC CD ROMs

The Navy Advancement Center has developed a series of NRTC CD ROMs. These CDs contain course materials in Portable Document Format (PDF) and are duplicates of printed courses. These courses are not interactive multimedia and do not require a computer to be completed.

CDs for Command Use

These CDs are intended for use to be used on command Intranets, networks, or in Technical Libraries or Learning Centers, or to be available for Sailors to print course material. These CDs may not be ordered by individuals and should not be ordered for individual use.

Due to budget restraints, commands should order limited quantities of these CDs and we restrict orders to Navy, Marine, and Coast Guard. Commands may order these CDs via Naval Message or by letter. Phone, fax, or e-mail orders can not accepted. Both message and letter should include the command's UIC, CD Title, Volume number, and point of contact information.

For questions about ordering call Toll Free 1-877-264-8583 or DSN 922-1181/1511 or e-mail SFLY_Fleetservices@navy.mil.

Address Naval
Message to:

Address letter on command letterhead, signed by Commanding Officer or By
Direction, to:

NETPDTC N331

COMMANDING OFFICER, NETPDTC N331, 6490 SAUFLEY FIELD ROAD,
PENSACOLA FL 32559-5000

Unclassified CDs	NAVEDTRA #	Volume #	Release Date
Aviation Ratings NRTCS	14900	N6832200226	June 2003
Construction Ratings NRTCS	14904	N6832200230	June 2003
Information Technology NRTCS	14908	N6832200233	June 2003
Medical Support Ratings NRTCS	14906	N6832200232	June 2003
Naval Engineering Ratings NRTCS	14903	N6832200229	June 2003
Service Support Ratings NRTCS	14905	N6832200231	June 2003
Surface Combat Ratings NRTCS	14901	N6832200227	June 2003
Surface Operations Ratings NRTCS	14902	N6832200228	June 2003
NRTCs, Limited Distribution "B" and higher — Single CD	14913	N6832200235	November 2002

Boatswain's Mate (BM) NRTCs — Single CD (for activities not eligible for the Limited Distribution "B" and higher CD)	14919	6832200223	February 2002
Naval Space — Single CD		N6832200224	March 2002
NEETS — Single CD (This CD is not in PDF format and does require a computer)		N6832200017	September 1998
Classified CDs			
Aviation Warfare Systems Operator (AW) SECRET — Single CD		6832200217	September 2001
Intelligence Specialist (IS) SECRET — Single CD		6832200218	September 2001
Mineman (MN) CONFIDENTIAL — Single CD		6832200219	September 2001
Operations Specialist (OS) CONFIDENTIAL — Single CD		6832200220	September 2001
Sonar Technician G (IUSS) (STG) SECRET — Single CD		6832200221	September 2001

CDs for Individual Use

The Navy Advancement Center has developed CDs intended for use by individuals in preparing for advancement. These CDs are available only when you enroll in a course. Course enrollment instructions are listed in the [Enrollment Information](#) section of this catalog.

For questions about enrolling call Toll Free 1-877-264-8583 or DSN 922-1181/1511 or e-mail SFLY_Fleetservices@navy.mil or go to <https://www.courses.cnet.navy.mil/>.

CATALOG OF NONRESIDENT TRAINING COURSES

Courses released in the last 90 days

There are no records that match the criteria.

CATALOG OF NONRESIDENT TRAINING COURSES

Courses designated obsolete in the last 90 days

There are no records that match the criteria.

Course Enrollment Form

You may fill out the below form and mail it to us, but the easiest and fastest way to enroll in courses is to go to <https://www.courses.cnet.navy.mil>. For ordering procedures and a listing of courses, the Catalog of Nonresident Training Courses, NAVEDTRA 12061, is also available from the same web site. Other enrollment options are:

Internet
<https://www.courses.cnet.navy.mil>
 Fax
 (850) 452-1370; DSN 922-1370

E-mail
SFLY_Fleetservices@navy.mil
 Phone
 Toll Free: (877) 264-8583; Commercial: (850) 452-1511; DSN: 922-1511

Please Print Clearly

From:		Address	
Social Security Number	Rate/Rank	No.	Street
Last Name		Apt No.	
First Name	Middle initial	City	
Date of Birth (yyyymmdd)	Phone Number	State	Zip Code +4
Branch of Service and Status		Unit Identification Code (UIC)	
USN <input type="checkbox"/>	USMC <input type="checkbox"/>	USCG <input type="checkbox"/>	
Active <input type="checkbox"/>	Drilling Reserve <input type="checkbox"/>	IRR <input type="checkbox"/>	Retired <input type="checkbox"/>
			Other ex. DON Civ <input type="checkbox"/>
		E-mail Address	
		Mail to: COMMANDING OFFICER NETPDTC N331 6490 SAUFLEY FIELD ROAD PENSACOLA FL 32559-5000	

Enroll me in the course(s) listed below. I understand I can only be enrolled in a maximum of 4 courses at one time and that I must complete each course within 1 year. I also understand enrolling in a course requires me to complete assignments and submit for grading within 1 year from enrollment date.

A. Course Number and Title					C. Course Number and Title				
I need nothing <input type="checkbox"/>	CD ROM <input type="checkbox"/>	Answer Sheets Only <input type="checkbox"/>	Text Only <input type="checkbox"/>	Text/Answer Sheets <input type="checkbox"/>	I need nothing <input type="checkbox"/>	CD ROM <input type="checkbox"/>	Answer Sheets Only <input type="checkbox"/>	Text Only <input type="checkbox"/>	Text/Answer Sheets <input type="checkbox"/>
B. Course Number and Title					D. Course Number and Title				
I need nothing <input type="checkbox"/>	CD ROM <input type="checkbox"/>	Answer Sheets Only <input type="checkbox"/>	Text Only <input type="checkbox"/>	Text/Answer Sheets <input type="checkbox"/>	I need nothing <input type="checkbox"/>	CD ROM <input type="checkbox"/>	Answer Sheets Only <input type="checkbox"/>	Text Only <input type="checkbox"/>	Text/Answer Sheets <input type="checkbox"/>

Privacy Act Statement

Under the authority of Title 5 USC 301, information regarding your military or other DOD status is requested on this application in order to enroll in a Navy Nonresident Training Course (NRTC). The information will also be used to process related correspondence and to construct and maintain an official and continuing record of NRTC participation. The NRTC participation record will not be divulged, without written authorization, to anyone other than those within DOD for official use in determining performance and effecting organizational and administrative management. Completion of this form is voluntary; however, failure to complete the form will result in an inability to process this application.

NAVEDTRA 10243

EAR TRAINING MANUAL FOR MUSICIANS

Classification: UNCLASSIFIED Retirement Points: 0
Assignments: 0 Distribution Code: A

Covers the divided beat in simple time and compound time; major triad and minor triad in numeral notation and staff notation; the subdivided beat in simple time and compound time; major and minor scale activities; syncopation involving beat and divided beat; diatonic and nondiatonic melodies; time beating patterns; counting system; and performance procedures and guidelines. **This Special Publication is only available in electronic format. You may access this publication for view/download from <https://www.advancement.cnet.navy.mil>. This publication has no associated assignments or test. It is intended for information purposes only.**

NAVEDTRA 10244

BASIC MUSIC

Classification: UNCLASSIFIED Retirement Points: 0
Assignments: 0 Distribution Code: A

Covers basic principles of music and musical instruments. **This Special Publication is only available in electronic format. You may access this publication for view/download from <https://www.advancement.cnet.navy.mil>. This publication has no associated assignments or test. It is intended for information purposes only.**

NAVEDTRA 12012

HARMONY

Classification: UNCLASSIFIED Retirement Points: 0
Assignments: 0 Distribution Code: A

Discusses use and formation of harmony. **This Special Publication is only available in electronic format. You may access this publication for view/download from <https://www.advancement.cnet.navy.mil>. This publication has no associated assignments or test. It is intended for information purposes only.**

NAVEDTRA 12013

BASIC MUSIC (NAVY)

Classification: UNCLASSIFIED Retirement Points: 0
Assignments: 0 Distribution Code: A

Contains information on media, form, and conducting as it relates to Navy musician. Supplement to BASIC MUSIC, NAVEDTRA 10244. **This Special Publication is only available in electronic format. You may access this publication for view/download from <https://www.advancement.cnet.navy.mil>. This publication has no associated assignments or test. It is intended for information purposes only.**

NAVEDTRA 12968A

LOOKOUT TRAINING HANDBOOK

Classification: UNCLASSIFIED Retirement Points: 0
Assignments: 0 Distribution Code: A

Describes the duties of a lookout and the equipment lookouts use. Contains illustrations and references for the recognition of navigation aids, signals, naval and merchant ships, and aircraft. **This Special Publication is only available in electronic format. You may access this publication for view/download from <https://www.advancement.cnet.navy.mil>. This publication has no associated assignments or test. It is intended for information purposes only.**

NAVEDTRA 14008

AVIATION MACHINIST'S MATE 3 & 2

Classification: UNCLASSIFIED Retirement Points: 17
Assignments: 11 Distribution Code: C

Provides sufficient basic information to satisfy the occupational needs of the aviation machinist's mate in the following areas: jet engine theory and design; tools and hardware; aviation support equipment; jet aircraft fuel and fuel systems; jet aircraft engine lubrication systems; engine and airframe related systems; helicopters and turboshaft power plants; turboprop engines and propellers; power plant troubleshooting; and power plant inspection, repair, and testing.

NAVEDTRA 14009

AVIATION ELECTRICIAN'S MATE 3 & 2

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 10 Distribution Code: A

Provides minimum occupation information by answering items about the following areas: basic physics, electrical maintenance and troubleshooting, power generation and control systems, aircraft power plant electrical systems, aircraft instruments, compass and inertial navigation systems, and automatic flight control and stabilization systems.

NAVEDTRA 14010

AEROGRAPHER'S MATE 1 & C

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Provides Aerographer's Mates with occupational information on the following areas: convergence, divergence, and vorticity; the forecasting of upper air systems; the forecasting of surface systems; the forecasting of weather elements; the forecasting of severe weather features; sea surface forecasting; meteorological products and tactical decision aids; oceanographic products and tactical decision aids; operational oceanography; tropical forecasting; weather radar; meteorological and oceanographic briefs; and administration and training.

NAVEDTRA 14014

AIRMAN

Classification: UNCLASSIFIED Retirement Points: 18
Assignments: 12 Distribution Code: A

Presents an overview of naval aviation and includes subject matter coverage of the following: mission and history of naval aviation; organization of naval aviation; principles of flight; aircraft construction; aircraft hardware; aircraft power plants; aircraft avionics; ordnance; support equipment, line operations and safety; aircrew survival equipment; and crash rescue and fire fighting.

NAVEDTRA 14022

AVIATION MAINTENANCE RATINGS

Classification: UNCLASSIFIED Retirement Points: 11
Assignments: 7 Distribution Code: A

The TRAMAN and NRTC package provides information on subject matter that relates directly to the occupational standards of the following nine aviation ratings: AD, AE, AME, AMH, AMS, AO, AS, AT, and PR. The NRTC provides the usual method to satisfy the requirements for completing a TRAMAN.

NAVEDTRA 14026

CONSTRUCTION ELECTRICIAN BASIC

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

This combination TRAMAN/NRTC contains information on Construction Support, Drawings and Specifications, Power Generation, Power Distribution, Interior Wiring, Communications and Lighting, and Electrical Appliances, Test Equipment, Motors, and Generators.

NAVEDTRA 14027

CONSTRUCTION ELECTRICIAN INTERMEDIATE

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

This combination TRAMAN/NRTC is a continuation of information covered in the Construction Electrician Basic TRAMAN. The major topics in this TRAMAN are Construction Support, Drawings and Specifications, Generators, Electrical Distribution, Interior Wiring, Fiber Optics and Lighting Systems, Electrical Equipment, and Alarm Systems.

NAVEDTRA 14028

AVIATION ELECTRONICS TECHNICIAN 3

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 9 Distribution Code: A

Provides information on the following subject matter: physics; infrared, lasers, and fiber optics; analog fundamentals; digital computers; aviation systems fundamentals and support equipment; avionics maintenance; avionics drawings, schematics, handtools, and materials; test equipment; and safety and security.

NAVEDTRA 14029

AVIATION ELECTRONICS TECHNICIAN 2 (INTERMEDIATE)

Classification: UNCLASSIFIED Retirement Points: 15
Assignments: 10 Distribution Code: C

Provides information on servo systems, logic devices, communications, navigation systems, antisubmarine warfare (ASW), radar circuits, optic and infrared systems, television, computers, and programming, waveform interpretation, and automatic test equipment.

NAVEDTRA 14030

AVIATION ELECTRONICS TECHNICIAN 1 (ORGANIZATIONAL)

Classification: UNCLASSIFIED Retirement Points: 15
Assignments: 10 Distribution Code: A

Provides information on communications, navigation, radar, antisubmarine warfare, indicators, infrared, weapons systems, computers, automatic carrier landing system, and the electrostatic discharge program. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14031**AVIATION WARFARE SYSTEMS OPERATOR 1 & C**

Classification: CONFIDENTIAL Retirement Points: 8
 Assignments: 5 Distribution Code: E

Covers information on aircrew administration and training; aviation safety; operations and exercises; and mission support procedures. It replaces two older AW 1&C modules in their entirety. The information is designed to help the AW1 and AWC perform the daily administrative duties involved in the AW division of any ASW squadron. **WARNING! This product is classified CONFIDENTIAL. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14032**AVIATION WARFARE SYSTEMS OPERATOR 3, MODULE 02--RADAR AND MAD**

Classification: CONFIDENTIAL Retirement Points: 5
 Assignments: 5 Distribution Code: B

Covers radar principles, radar navigation, radar tactics, IFF/SIF, magnetic theory, MAD equipment, operations, and MAD tactics for personnel in the AW rating. **WARNING! This product is classified CONFIDENTIAL. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14034**AVIATION WARFARE SYSTEMS OPERATOR 3 & 2, MODULE 03--ESM AND IR**

Classification: SECRET Retirement Points: 8
 Assignments: 7 Distribution Code: E

Covers introduction to electronic warfare, fundamentals of radar, emitter characteristics, threat emitters and weapons systems, electronic warfare publications, airborne ASW ESM systems, ESM tactics and contact reporting procedures, introduction to infrared, infrared ASW systems, and infrared tactics. These subject areas are designed to aid nonacoustic antisubmarine operators in developing their skills. **WARNING! This product is classified SECRET/WNINTEL/NOFORN. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14035

AVIATION WARFARE SYSTEMS OPERATOR 3 & 2, MODULE 04--FUNDAMENTALS OF ACOUSTIC ASW

Classification: SECRET Retirement Points: 11

Assignments: 7 Distribution Code: E

Provides information on the physics of sound, sound travel, environmental prediction systems, acoustic systems, and acoustic tactics. **WARNING! This product is classified SECRET/WNINTEL/NOFORN. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14037

BASIC MACHINES

Classification: UNCLASSIFIED Retirement Points: 6

Assignments: 4 Distribution Code: A

Covers the simplest machine-levers; block and tackle; wheel and axle; inclined plane and wedges; screw and gears. Internal combustion engines and power trains have cursory coverage.

NAVEDTRA 14040

BLUEPRINT READING AND SKETCHING

Classification: UNCLASSIFIED Retirement Points: 6

Assignments: 4 Distribution Code: A

Covers blueprint reading and drawing with examples from several fields of work where blueprints are normally used.

NAVEDTRA 14043

BUILDER 3 & 2, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: A

Contains information on the following topics: construction administration and safety; drawings and specifications; woodworking tools, materials and methods of woodworking; fiber line, wire rope, and scaffolding; leveling and grading; concrete; placing concrete; masonry; and planning, estimating, and scheduling.

NAVEDTRA 14044

BUILDER 3 & 2, VOLUME 02

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Contains information on floor and wall construction; roof framing; exterior and interior finishing; plastering, stuccoing, and ceramic tile; paint and preservatives; advanced base field structures; and heavy construction.

NAVEDTRA 14045

BUILDER ADVANCED

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Builders inspect and maintain existing structures and plan and construct new permanent and field structures. This course covers technical administration, planning, estimating, scheduling, project planning, concrete, masonry, and heavy construction, shop organization, millworking, quality control, maintenance inspections, Advanced Base Functional Components Field Structures, and K-spans. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14046

CONSTRUCTION ELECTRICIAN 1

Classification: UNCLASSIFIED Retirement Points: 10

Assignments: 5 Distribution Code: A

Describes safe working practices and conditions in the use and care of test equipment and meters; procedures for installing, maintaining, and troubleshooting mobile electrical power (MEP) generators; procedures for installing, operating, maintaining, and repairing power distribution systems and lighting systems; procedures for installing, maintaining, and troubleshooting alarm systems; methods of calculating the load requirements of the various electrical systems; and the rigging and erecting of various hoisting systems. **DUE TO COPYRIGHT RESTRICTIONS, THIS COURSE CANNOT BE DOWNLOADED FROM THIS WEBSITE.**

NAVEDTRA 14050

CONSTRUCTION MECHANIC ADVANCED

Classification: UNCLASSIFIED Retirement Points: 17

Assignments: 11 Distribution Code: A

Describes the duties and responsibilities of the construction mechanic in a battalion or Public Works assignment. Their tasks concern procedures for conducting vehicle safety inspections and Battalion Equipment Evaluation Programs; overhauling internal combustion engines; and troubleshooting vehicle electrical systems, fuel systems, and power trains (including automatic transmissions), hydraulic systems, air-conditioning systems, and wheel and track alignment systems. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14056

NAVY CUSTOMER SERVICE MANUAL

Classification: UNCLASSIFIED Retirement Points: 2
Assignments: 1 Distribution Code: A

Presents the importance of proper attitude and its effect on everyday performance and stresses the need for developing positive attitudes in interpersonal relationships. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14057

DAMAGE CONTROLMAN

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: A

This course consists of 13 chapters that cover the Damage Controlman rating; damage control organization, communication, and information; ship compartmentation and watertight integrity; fire-fighting fundamentals; portable fire-fighting and dewatering equipment; fire-fighting systems; fire-fighting tactics; battle damage repair; chemical and biological warfare defense; radiological effects; radiological defense and recovery; ship stability and buoyancy; and shipboard damage control training.

NAVEDTRA 14067

SEAMAN

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Contains information on the following subject matter: watches, watchstanding duties, marlinespike seamanship, deck seamanship, use and care of deck equipment, boat seamanship, ammunition and gunnery.

NAVEDTRA 14069

ENGINEERING AID 3

Classification: UNCLASSIFIED Retirement Points: 20
Assignments: 13 Distribution Code: A

Covers the following topics: mathematics and the units of mathematics; drafting equipment; drafting fundamentals and techniques; geometric construction; drafting projections and sketches; wood and light-frame construction; concrete and masonry; mechanical systems and plans; electrical systems and plans; construction drawings; elements of surveying and surveying equipment; direct linear measurements; field survey safety; horizontal control; direct leveling and basic engineering surveys; material testing for soil and concrete; and administration.

NAVEDTRA 14075

ENGINEMAN 1 & C

Classification: UNCLASSIFIED Retirement Points: 22
Assignments: 11 Distribution Code: A

Provides training on the following subject matter areas: Describes procedures for scheduling, administering, and supervising work; the purpose and nature of the Engineering Operational Sequencing System and Engineering Operational Casualty Control System; troubleshooting and corrective maintenance procedures for diesel engines, their accessories, reduction gears, main line shafts and shaft bearings; factors affecting engine performance and efficiency; construction, troubleshooting and maintenance of complex refrigeration and air conditioning systems, compressed air systems, auxiliary boilers, and hydraulic systems; procedures for engineering casualty control, maintaining engineering records and reports, conducting trials of engineering equipment and systems, and preparing for administrative and operational inspection. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14076

ENGINEMAN 2

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Prepares enlisted personnel for advancement to petty officer second class in the Engineman rating. This course includes the following topics: administration and training; measuring and repair instruments; internal combustion engines; speed controlling devices; refrigeration and air-conditioning; compressed air systems; laundry, mess deck, galley, scullery, and other auxiliary equipment; and lathe and machining operations.

NAVEDTRA 14080

EQUIPMENT OPERATOR ADVANCED

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Provides the basic information required for advanced equipment operators to perform the duties and responsibilities of the following positions: Transportation Supervisor; Air Detachment Equipment Supervisor; Crane Crew Supervisor; Project Supervisor; Quarry Supervisor; Crusher Supervisor; Concrete Batch Plant Supervisor; Asphalt Plant Supervisor; and Well Drilling Supervisor. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14081

EQUIPMENT OPERATOR BASIC

Classification: UNCLASSIFIED Retirement Points: 18
Assignments: 12 Distribution Code: A

Covers the principles and operations of electrical and hydraulic systems, engine systems, power trains, chassis systems, tractor-trailers, dump trucks, front-end loaders, excavators, ditchers, graders, scrapers, dozers, rollers, cranes, paving equipment and miscellaneous equipment. Also covered are rules of the road, transportation operations, and rigging.

NAVEDTRA 14082

EQUAL OPPORTUNITY IN THE NAVY

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

The following subjects are covered: Equal Opportunity (EO) responsibilities of commanders; command managed equal opportunity (CMEO); prevention of sexual harassment; Navy complaint procedures (informal and formal); incident handling and reporting; responsibilities of key officials, advisors, and service members; definitions and terms used in EO; policy; roles and responsibilities of advisors; guidelines for advocates; resources available; and NAVPERS 5354/2. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download course assignments: <https://www.advancement.cnet.navy.mil> The text for this course, Equal Opportunity Manual, OPNAV Instruction 5354.1E is NOT supplied and must be obtained by the student. This instruction is available at <http://neds.nebt.daps.mil>**

NAVEDTRA 14083A

EDUCATIONAL SERVICES OFFICER

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 3 Distribution Code: A

This course provides information and procedures to assist personnel assigned as the command Educational Services Officer. In addition to the basic "how to" information, several web sites and references are provided for step-by-step instruction. Course subjects include: fundamentals; the Navy College Program; educational programs and benefits; professional development education programs; the Navy Enlisted Advancement System (NEAS); and examination procedures.

NAVEDTRA 14086**ELECTRONICS TECHNICIAN, VOLUME 01--SAFETY**

Classification: UNCLASSIFIED Retirement Points: 2
Assignments: 1 Distribution Code: A

This is the first volume in the ET Training Series. Covers causes and prevention of mishaps, handling of hazardous materials; identifies the effects of electrical shock; purpose of the tag-out bill and personnel responsibilities, documents, and procedures associated with tag out; and identifies primary safety equipment associated with ET work. **Special Information: This course requires the student to refer to the Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat, OPNAVINST 5100.19B, and Standard Organization and Regulations of the U.S. Navy, OPNAVINST 3120.32B. Available at: <http://neds.nebt.daps.mil>**

NAVEDTRA 14087**ELECTRONICS TECHNICIAN, VOLUME 02--ADMINISTRATION**

Classification: UNCLASSIFIED Retirement Points: 2
Assignments: 1 Distribution Code: A

Provides an overview of general and technical administration and logistics. Included are descriptions of forms and procedures included in the Maintenance Data System (MDS) and publications that should be included in a ship's technical library. Also included is a basic description of the Naval Supply System and COSAL.

NAVEDTRA 14088**ELECTRONICS TECHNICIAN, VOLUME 03--COMMUNICATIONS SYSTEMS**

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Provides operations-related information on Navy communications systems including SAS, TEMPEST, satellite communications, Links 11, 4-A, and 16, the C2P system, and a basic introduction to local area networks (LANs).

NAVEDTRA 14089**ELECTRONICS TECHNICIAN, VOLUME 04--RADAR SYSTEMS**

Classification: UNCLASSIFIED Retirement Points: 5

Assignments: 3 Distribution Code: A

Provides a basic introduction to air search, surface search, ground-controlled approach, and carrier controlled approach RADAR systems. Included are basic terms associated with RADAR systems, descriptions of equipment that compose the common systems, descriptions of RADAR interfacing procedures and equipment, and primary radar safety topics.

NAVEDTRA 14090**ELECTRONICS TECHNICIAN, VOLUME 05--NAVIGATION SYSTEMS**

Classification: UNCLASSIFIED Retirement Points: 2

Assignments: 1 Distribution Code: A

Introduces the primary navigation systems used by U.S. Navy surface vessels. It provides a basic introduction to and explanation of the Ship's Inertial Navigation System (SINS), the U.S. Navy Navigation Satellite System (NNSS), and the NAVSTAR Global Positioning System (GPS) and associated equipment. It then provides an introduction to and explanation of the Tactical Air Navigation system (TACAN) and its associated equipment. The information provided is written at an introductory level and is not intended to be used by technicians for diagnoses or repairs.

NAVEDTRA 14091**ELECTRONICS TECHNICIAN, VOLUME 06--DIGITAL DATA SYSTEMS**

Classification: UNCLASSIFIED Retirement Points: 21

Assignments: 14 Distribution Code: A

Covers the following subject matter on computers and peripherals: fundamentals and operations, configurations and hardware, operator controls and controlling units, components and circuits, central processing units and buses, memories, input/output and interfacing, instructions and man/machine interfaces, magnetic tape storage, magnetic disk storage, CD-ROM storage, printers, data conversion devices and switchboards.

NAVEDTRA 14092

ELECTRONICS TECHNICIAN, VOLUME 07--ANTENNAS AND WAVE PROPAGATION

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Covers a basic introduction to antennas and wave propagation. It includes discussions about the effects of the atmosphere on rf communications, the various types of communications and radar antennas in use today, and a basic discussion of transmission lines and waveguide theory.

NAVEDTRA 14093

ELECTRONICS TECHNICIAN, VOLUME 08--SUPPORT SYSTEMS

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

Provides a basic introduction to support systems: liquid cooling, dry air, ac power distribution, ship's input, and information transfer. It includes discussions on configuration, operation and maintenance of these systems.

NAVEDTRA 14095

ELECTRONICS WARFARE TECHNICIAN 1 & C

Classification: SECRET Retirement Points: 5
Assignments: 3 Distribution Code: E

Provides information on correspondence documents and publications; EW training and readiness; EW assets and capabilities; Navy EW organization and missions; emission control; EW operations planning and coordination; and ECM/ECCM employment.

WARNING! This product is classified SECRET/NOFORN. Enrollment instructions for classified courses are listed in the front of this catalog.

NAVEDTRA 14096

ELECTRONICS WARFARE TECHNICIAN 3 & 2

Classification: SECRET Retirement Points: 9

Assignments: 6 Distribution Code: E

Provides detailed information on Introduction to electronic warfare; CIC and EW organization; analysis and identification; communications and reporting; logs, status boards, and plots; shipboard electronic warfare support measures (ESM) equipment; shipboard electronic countermeasures (ECM) equipment; auxiliary electronic warfare equipments; security and publications; maintenance. **WARNING! This product is classified SECRET/WNINTEL/NOFORN. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14097

FIRE CONTROLMAN SUPERVISOR

Classification: UNCLASSIFIED Retirement Points: 3

Assignments: 2 Distribution Code: A

Covers Fire Controlman supervisor responsibilities, organization, administration, inspections, and maintenance; supervision and training; combat systems, subsystems, and their maintenance; and weapons exercises. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14098

FIRE CONTROLMAN, VOLUME 01, ADMINISTRATION AND SAFETY

Classification: UNCLASSIFIED Retirement Points: 3

Assignments: 2 Distribution Code: A

Covers general administration, technical administration, electronics safety, and hazardous materials as they pertain to the FC rating.

NAVEDTRA 14099A

FIRE CONTROLMAN, VOLUME 02--FIRE CONTROL SYSTEMS AND RADAR FUNDAMENTALS

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

Covers basic radar systems, fire control systems, and radar safety as they relate to the Fire Controlman rating.

NAVEDTRA 14100

FIRE CONTROLMAN, VOLUME 03--DIGITAL DATA SYSTEMS

Classification: UNCLASSIFIED Retirement Points: 21
Assignments: 14 Distribution Code: A

Covers computer and peripheral fundamentals and operations, configurations and hardware, operator controls and controlling units, components and circuits, central processing units and buses, memories, input/output and interfacing, instructions and man/machine interfaces, magnetic tape storage, magnetic disk storage, CD-ROM storage, printers, data conversion devices, and switchboards.

NAVEDTRA 14101

FIRE CONTROLMAN, VOLUME 04--FIRE CONTROL MAINTENANCE CONCEPTS

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

Introduces the Planned Maintenance System and discusses methods for identifying and isolating system faults, liquid cooling systems used by Fire Controlmen, battery alignment (purpose, equipment, and alignment considerations), and radar collimation.

NAVEDTRA 14102

FIRE CONTROLMAN, VOLUME 05--DISPLAY SYSTEMS AND DEVICES

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Covers basic display devices and input devices associated with Navy tactical data systems as used by the FC rating.

NAVEDTRA 14103

FIRE CONTROLMAN, VOLUME 06--DIGITAL COMMUNICATIONS

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Covers the fundamentals of data communications, the Link-11 and Link-4A systems, and local area networks. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14104

FIREMAN

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Provides information on the following subject areas: engineering administration; engineering fundamentals; the basic steam cycle; gas turbines; internal combustion engines; ship propulsion; pumps, valves, and piping; auxiliary machinery and equipment; instruments; shipboard electrical equipment; and environmental controls.

NAVEDTRA 14105

FLUID POWER

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Presents the fundamentals of fluid power (hydraulics and pneumatics); emphasizes fluid power components and systems having general application in naval equipment. Intended as a basic reference for all Navy personnel whose duties require them to have a knowledge of the fundamentals of fluid power.

NAVEDTRA 14111

GAS TURBINE SYSTEMS SUPERVISOR

Classification: UNCLASSIFIED Retirement Points: 2
Assignments: 1 Distribution Code: A

Provides information needed by senior petty officers and chiefs responsible for the management, training, and administering of Gas Turbine Systems personnel. Subjects included are programs, reports, and records; power train and propulsion systems; and gas turbine maintenance. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14112

GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL) 2

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Provides information related to the operation and maintenance of gas turbine engineering plants, such as those found on DD-, DDG-, FFG-, CG-, LCAC-, and PHM-class ships. Topics include administration; uninterrupted power supply systems; engineering control system operation; engineering support systems maintenance; electrical and electronic systems maintenance; pressure, temperature, and level control devices; and the LCAC and PHM propulsion systems.

NAVEDTRA 14113**GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL/MECHANICAL) 3, VOLUME 01**

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: B

Provides information on the following topics: administration, engineering safety, basic scientific principles, electrical instruments, gas turbine theory and construction, the main reduction gear and controllable pitch propeller, associated auxiliary equipment, and logs and records. This course may be used as a basic reference for any Navy person striking for the GS rating.

NAVEDTRA 14114**GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL/MECHANICAL) 3, VOLUME 02**

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 10 Distribution Code: B

Provides information related to the operation and maintenance of gas turbine engineering plants. Topics covered include gas turbine fundamentals, gas turbine construction, engineering auxiliary and support equipment, and engineering control systems on DD-, CG-, and DDG-class ships. This course is also recommended for any person assigned to a gas turbine ship who needs to understand the operation of this propulsion system.

NAVEDTRA 14115**GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) 2**

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Provides training material on the following subject matter areas: General engineering administration; oil laboratory procedures and administration; engineering control system operation; engineering support and auxiliary equipment and systems; propulsion plant systems and drive train equipment; LCAC and PHM propulsion systems; and an overview of electric plants found aboard gas turbine-powered ships.

NAVEDTRA 14119

HULL MAINTENANCE TECHNICIAN

Classification: UNCLASSIFIED Retirement Points: 15
Assignments: 10 Distribution Code: A

Provides information in the following subject matter areas: safety; ship repair; woodworking cuts and joints; small boat repair and deck coverings; tools and equipment; metallurgy; introduction to cutting and welding; oxyacetylene cutting and welding; brazing and braze welding; metal-arc welding and cutting; nondestructive tests and inspection of welds; sheet metal layout and fabrication; structural steel fabrication; shop mathematics; piping systems; piping system repairs; and sewage systems.

NAVEDTRA 14120

INTERIOR COMMUNICATIONS ELECTRICIAN, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 15
Assignments: 10 Distribution Code: A

Provides information on the following topics: electrical and general safety precautions; switches, protection devices, and cables; power distribution, IC switchboards, and controllers; gyrocompass systems; sound-powered telephone system; automatic dial telephone systems; amplified voice systems; ship's entertainment systems; alarm, safety, and warning systems; ship's order indicating and metering systems; and auxiliary electrical equipment.

NAVEDTRA 14121

INTERIOR COMMUNICATIONS ELECTRICIAN, VOLUME 02

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Provides information in the following areas: manual bus transfers, motor controllers, and frequency regulators; anemometer systems; the stabilized glide slope (SGSI) system; and technical administration.

NAVEDTRA 14122**INTERIOR COMMUNICATIONS ELECTRICIAN, VOLUME 03**

Classification: UNCLASSIFIED Retirement Points: 5
 Assignments: 3 Distribution Code: A

Provides information in the following subject matter areas: technical administration and supervision; quality assurance program and procedures; ships' drawing and diagrams; and standard maintenance procedures. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14126**INTELLIGENCE SPECIALIST 1 & C**

Classification: SECRET Retirement Points: 12
 Assignments: 8 Distribution Code: F

Provides detailed information on Intelligence Specialist mission orientation, intelligence operational planning, intelligence collection, intelligence sensor systems, intelligence data system fundamentals, foreign weapon systems, foreign threats to U.S. forces, and security and SSO orientation. **WARNING! This product is classified SECRET/WNINTEL/NOFORN. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14127**INTELLIGENCE SPECIALIST 3 & 2, VOLUME 01**

Classification: UNCLASSIFIED Retirement Points: 14
 Assignments: 9 Distribution Code: B

Covers the U.S. intelligence community; intelligence administration; security; aerial photography, titling, plotting, and forwarding of related intelligence photography; mosaics, overlays, and graphics; photometrics and imagery interpretation; and automated information systems.

NAVEDTRA 14137**MASTER-AT-ARMS**

Classification: UNCLASSIFIED Retirement Points: 29
 Assignments: 19 Distribution Code: A

Provides coverage in the following areas: rules and regulations; military law; search and seizure; military law of evidence; courts-martial; nonjudicial punishment; controlled substances; small arms; crowd control; physical security; military working dogs; patrol; customs; shipboard duties; investigations; forensics; evidence custody; and administration. The Master-at-Arms TRAMAN is a four-paygrade manual.

NAVEDTRA 14139**MATHEMATICS, BASIC MATH AND ALGEBRA**

Classification: UNCLASSIFIED Retirement Points: 22
 Assignments: 11 Distribution Code: A

Provides a review of basic arithmetic and elementary algebra; includes fractions, decimals, percentages, exponents, radicals, logarithms; exercises in factoring polynomials, linear equations, ratio, proportion, variation, complex numbers and quadratic equations; presents brief introduction to plane figures, geometric construction, and trigonometry. **High school algebra or its equivalent is considered the minimum academic background for enrollment in this course. Personnel in supervisory positions should inform enrollees that considerable effort and concentration will be required to complete this course.**

NAVEDTRA 14140**MATHEMATICS, TRIGONOMETRY**

Classification: UNCLASSIFIED Retirement Points: 11
 Assignments: 4 Distribution Code: A

Contains information on the following subjects: definitions, notations, and computations with logarithms; trigonometric ratios, analysis, applications, and aids to computations; trigonometric identities; and vectors and forces. This course is general in nature and is not directed toward any one specific specialty. **Successful completion of Mathematics, Part 1 (New Title: Mathematics, Basic Math and Algebra) or equivalent classroom courses in the fundamentals of algebra and trigonometry is strongly recommended prior to enrollment.**

NAVEDTRA 14141

MATHEMATICS, PRE-CALCULUS AND INTRODUCTION TO PROBABILITY

Classification: UNCLASSIFIED Retirement Points: 12

Assignments: 5 Distribution Code: A

Contains information on the following subjects: straight lines, conic sections, tangents, normals, slopes; introduction to differential and integral calculus; combinations and permutations; and introduction to probability. This course is general in nature and is not directed toward any specific specialty. **Successful completion of Mathematics, Part 1 (New Title: Mathematics, Basic Math and Algebra) and Mathematics, Volume 2-A (New Title: Mathematics, Trigonometry) or equivalent classroom courses in the fundamentals of algebra and trigonometry is strongly recommended prior to enrollment.**

NAVEDTRA 14142

MATHEMATICS, INTRODUCTION TO STATISTICS, NUMBER SYSTEMS AND BOOLEAN ALGEBRA

Classification: UNCLASSIFIED Retirement Points: 14

Assignments: 5 Distribution Code: A

Contains information on the following subjects: elements of digital computer mathematics--sequence and series, induction and the binomial theorem, statistics, number systems, sets and subsets, Boolean algebra, matrices, and determinants. **Successful completion of Mathematics, Part 1 (New Title: Mathematics, Basic Math and Algebra) or equivalent classroom courses prior to enrollment is strongly recommended.**

NAVEDTRA 14144

MILITARY REQUIREMENTS FOR CHIEF PETTY OFFICER

Classification: UNCLASSIFIED Retirement Points: 9

Assignments: 6 Distribution Code: A

Provides subject matter related to the military qualifications of all chief petty officers. Provides information on naval tradition, military conduct and justice, leadership, management information and training, programs and policies, military requirements, safety and damage control, and security.

NAVEDTRA 14145

MILITARY REQUIREMENTS FOR PETTY OFFICER FIRST CLASS

Classification: UNCLASSIFIED Retirement Points: 11
Assignments: 7 Distribution Code: A

Provides subject matter related to the military qualifications of all first class petty officers. Provides information on U.S. naval tradition; leadership and administrative responsibilities; programs and policies; professional responsibilities; military requirements; safety and survival; and damage control.

NAVEDTRA 14150

MACHINIST'S MATE 1 & C (SURFACE)

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 9 Distribution Code: A

Provides information on the following subjects: management programs; propulsion turbines; reduction gears; steam-driven generators; heat exchangers and air ejectors; pumps, distilling plants; refrigeration and air conditioning; auxiliary equipment; propulsion plant efficiency; quality assurance; record systems; boiler firesides and waterside, boiler fittings and instruments; and environmental policies and procedures. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14151

MACHINIST'S MATE 3 & 2 (SURFACE)

Classification: UNCLASSIFIED Retirement Points: 20
Assignments: 13 Distribution Code: B

This TRAMAN provides information on the following topics in the MM (Surface) rating: introduction to the MM (Sur) rating; steam turbines; reduction gears and associated equipment; lubrication and associated equipment; pumps and forced draft blowers; heat exchangers and air ejectors; engineering operations and administration; steam operated distilling plants, valves, pipe fittings, and piping; refrigeration and air conditioning; compressed air systems; auxiliary equipment; propulsion boilers and boiler fittings and instruments; automatic air controls; and boiler water/feedwater test treatment.

NAVEDTRA 14152

MINEMAN, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

Gives an introduction to mine warfare and describes mine warfare-related programs, and operations and readiness.

NAVEDTRA 14157

MINEMAN, VOLUME 04

Classification: CONFIDENTIAL Retirement Points: 5
Assignments: 3 Distribution Code: B

Describes the characteristics and operational use of Mines Mk 36, 40, 56, 60, 62, 63, 65, and 67. **WARNING! This product is classified CONFIDENTIAL. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14158

MINEMAN, VOLUME 05

Classification: UNCLASSIFIED Retirement Points: 2
Assignments: 1 Distribution Code: A

Provides a basic overview of exercise and training mines, including actuation, laying, handling, shop, hunting, and mechanical sweep mines.

NAVEDTRA 14159

MINEMAN, VOLUME 06

Classification: CONFIDENTIAL Retirement Points: 8
Assignments: 5 Distribution Code: E

Covers MCM CIC operations including mine countermeasures, internal and external communications, recordkeeping, navigation, and mine hunting and neutralization.

WARNING! This product is classified CONFIDENTIAL. Enrollment instructions for classified courses are listed in the front of this catalog.

NAVEDTRA 14160

MINEMAN, VOLUME 07

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Covers MCM deck operations including magazine and fire suppression systems, small arms, pyrotechnics, seamanship, and methods of minesweeping.

NAVEDTRA 14167

NAVAL SAFETY SUPERVISOR

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Provides information about the history and role of the Department of the Navy Safety Program; safety program promotion and attitudes; mishap causes, prevention, and hazard abatement; mishap investigation fundamentals; Navy Occupational Safety and Health Program fundamentals; shore safety; afloat safety; naval aviation safety; explosives safety; traffic safety; and recreation, athletics, and home safety.

NAVEDTRA 14168A

NAVAL SPACE

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Covers the history of the Navy in space and current civil and military space organizations. In addition, the course explores the space environment, orbital mechanics, launch and recovery systems, space systems architecture, the naval tactical use of space, and foreign space programs.

NAVEDTRA 14169

INTELLIGENCE SPECIALIST 3 & 2, VOLUME 02

Classification: SECRET Retirement Points: 6
Assignments: 4 Distribution Code: F

Covers operational intelligence, operational intelligence processing, intelligence collection, strike warfare, dissemination of intelligence information, reporting methods, U.S. naval forces, the Russian navy, and Third World naval threats. **WARNING! This product is classified SECRET. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14172

NAVY COUNSELOR 1 & C (RECRUITER)

Classification: UNCLASSIFIED Retirement Points: 11
Assignments: 7 Distribution Code: A

Provides the student with information on: the Career Recruiting Force; training, recruiting personnel management; Navy recruiting station operations and administration; marketing; recruiting; public affairs; recruiting management and analysis systems; and visits, inspections, and meetings. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14173**NEETS, MODULE 01--INTRODUCTION TO MATTER, ENERGY, AND DIRECT CURRENT**

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 3 Distribution Code: A

Presents information on matter make up and behavior of matter, magnetism, methods of producing electricity, and direct current problem solving. Topic 1 presents information on matter, energy, electricity, and symbology. Topic 2 discusses batteries. Included are discussions on the battery cell, chemical processes, polarization, uses, and safety precautions. Topic 3 introduces direct current circuits and explains many of the formulas that are used routinely in electricity.

NAVEDTRA 14174**NEETS, MODULE 02--INTRODUCTION TO ALTERNATING CURRENT AND TRANSFORMERS**

Classification: UNCLASSIFIED Retirement Points: 10
Assignments: 4 Distribution Code: A

Introduces alternating current theory and power supplies. Topic 1 discusses the differences between alternating and direct current, magnetism, generation of alternating current, and characteristics of sine waves. Topic 2 introduces inductance characteristics, such as electromotive force, self inductance, and mutual inductance. Topic 3 introduces capacitance. Discussions are presented on the electrostatic field, capacitor characteristics, and series and parallel capacitive circuits. Topic 4 presents information on inductive and capacitive reactance, power in reactive circuits, and power factors. Topic 5 describes transformer characteristics.

NAVEDTRA 14175**NEETS, MODULE 03--INTRODUCTION TO CIRCUIT PROTECTION, CONTROL, AND MEASUREMENT**

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Presents information on circuit measurements, circuit protection devices, and circuit control devices. Topic 1 discusses basic ohmmeters, ammeters, voltmeters, wattmeters, and frequency meters. Topic 2 discusses circuit protection devices, such as fuses and circuit breakers. Topic 3 discusses switches, solenoids, and relays.

NAVEDTRA 14176

NEETS, MODULE 04--INTRODUCTION TO ELECTRICAL CONDUCTORS, WIRING TECHNIQUES AND SCHEMATIC READING

Classification: UNCLASSIFIED Retirement Points: 3

Assignments: 2 Distribution Code: A

Introduces electrical conductors, wiring techniques, and schematics. Topic 1 covers wire characteristics and insulation. Topic 2 covers conductor wiring techniques, including splicing, soldering, and lacing. Topic 3 covers schematic reading, marking systems, and some basic safety practices and precautions.

NAVEDTRA 14177

NEETS, MODULE 05--INTRODUCTION TO GENERATORS AND MOTORS

Classification: UNCLASSIFIED Retirement Points: 2

Assignments: 1 Distribution Code: A

Covers basic construction and theory of operation of AC & DC generators and motors.

NAVEDTRA 14178

NEETS, MODULE 06--INTRODUCTION TO ELECTRONIC EMISSION, TUBES, AND POWER SUPPLIES

Classification: UNCLASSIFIED Retirement Points: 5

Assignments: 3 Distribution Code: A

Presents an introduction to the theory of electronic emission and electron tubes. Topic 1 covers the construction, function, and theory of operation of the diode, triode, tetrode, and pentode. Topic 2 presents special-purpose tubes. The basic vacuum-tube power supply, including voltage and current regulation, and the methods used to isolate faulty components are covered in Topic 3.

NAVEDTRA 14179**NEETS, MODULE 07--INTRODUCTION TO SOLID-STATE DEVICES AND POWER SUPPLIES**

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Deals with solid-state devices and power supplies on a basic level. It presents a basic discussion of electron and hole flow in semiconductor devices and explains the construction, function, and theory of operation of the transistor. Also covered are the purpose modular circuitry and the advantages of integrated circuits over conventional transistor circuits, and the construction and use of the other solid-state devices such as the Zener diode, tunnel diode, varactor, silicon-controlled rectifier, triac, unijunction transistor, and the more commonly used opto-electric devices. Fundamentals of solid-state power supplies are also covered.

NAVEDTRA 14180**NEETS, MODULE 08--INTRODUCTION TO AMPLIFIERS**

Classification: UNCLASSIFIED Retirement Points: 4
Assignments: 2 Distribution Code: A

Presents an introduction to what amplification is and how different types and classes of amplifiers affect amplification. Topic 1 discusses audio amplifiers. Topic 2 discusses video amplifiers and radio frequency amplifiers. Topic 3 presents differential, operational, and magnetic amplifiers. Factors which affect how an amplifier performs, such as impedance, feedback frequency response, and coupling, are also explained.

NAVEDTRA 14181**NEETS, MODULE 09--INTRODUCTION TO WAVE-GENERATION AND WAVE-SHAPING CIRCUITS**

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Introduces electronic wave-generating and wave-shaping circuits. Topic 1 discusses tuned circuits, resonance, resonant circuits, filter circuits, bandwidth, and special safety precautions to be observed when repairing tuned circuits. Topic 2 presents fundamental oscillator theory, including circuit configuration and frequency and amplitude stability of circuits. Topic 3 presents various waveforms, and waveform-generating circuits such as multivibrators, blocking oscillators, and time-based generators. Topic 4 describes limiters, clampers, differentiators, integrators, and counters.

NAVEDTRA 14182**NEETS, MODULE 10--INTRODUCTION TO WAVE PROPAGATION, TRANSMISSION LINES, AND ANTENNAS**

Classification: UNCLASSIFIED Retirement Points: 6

Assignments: 4 Distribution Code: A

Introduces wave propagation, transmission lines, and antenna theory. Topic 1 discusses wave motion, sound-wave terminology, light waves, properties of electromagnetic waves and the electromagnetic spectrum. Topic 2 discusses radio-wave propagation, including components of radio waves, electromagnetic fields, and effects of the Earth's atmosphere and terrain on radio waves. Topic 3 discusses transmission line theory, including terminology, types of lines, losses, length of lines, and discussions on characteristic impedance, electromagnetic fields, line reflections, standing waves, and standing-wave ratio. Topic 4 discusses several antennas, including the Hertz, Marconi, several arrays, and special antennas.

NAVEDTRA 14183**NEETS, MODULE 11--MICROWAVE PRINCIPLES**

Classification: UNCLASSIFIED Retirement Points: 4

Assignments: 2 Distribution Code: A

Presents an introduction to microwave principles. Topic 1 introduces waveguides in terms of theory and application; various waveguide devices are explained. Topic 2 describes microwave components and circuits. Microwave components, tube principles and types, the decibel measurement system, and solid-state microwave devices are covered. Topic 3 describes microwave antennas. Antenna characteristics, reflector antennas, horn radiators, lens antennas, arrays, and frequency sensitive antennas are explained.

NAVEDTRA 14184**NEETS, MODULE 12--MODULATION PRINCIPLES**

Classification: UNCLASSIFIED Retirement Points: 7

Assignments: 3 Distribution Code: A

Presents information on the fundamental concepts of amplitude modulation, angle and pulse modulation, and demodulation. Topic 1 describes the theory of sine-wave generation and heterodyning. Also described are continuous-wave and amplitude-modulated systems. Topic 2 describes frequency, phase, and pulse modulation. Amplitude-, time-, duration-, position-, frequency-, and code-pulse modulation are explained. Topic 3 describes demodulation theory for continuous-wave, and amplitude-, frequency-, phase-, and pulse-modulated demodulators.

NAVEDTRA 14185

NEETS, MODULE 13--INTRODUCTION TO NUMBER SYSTEMS AND LOGIC CIRCUITS

Classification: UNCLASSIFIED	Retirement Points: 6
Assignments: 4	Distribution Code: A

Presents the fundamental concepts of number systems and logic circuits that pertain to digital equipment. Topic 1 describes unit, number, base/radix, positional notation, most- and least-significant digit, carry and borrow principles, and the decimal-, binary-, octal-, hexadecimal-, and binary-coded decimal-number systems. Techniques for converting from one system to another are covered. Topic 2 includes computer logic; AND, OR, NAND, and NOR gates; inverters; and Boolean algebra. Topic 3 presents exclusive OR and exclusive NOR circuits, adders, flip-flops, clocks, counters, registers, and logic families.

NAVEDTRA 14186

NEETS, MODULE 14--INTRODUCTION TO MICROELECTRONICS

Classification: UNCLASSIFIED	Retirement Points: 4
Assignments: 2	Distribution Code: A

Presents information on the fundamental concepts of microelectronics, solid-state devices, and integrated circuits. Fabrication, packaging techniques, and equivalent circuits are discussed. Topic 2 discusses the Navy's 2M program including certification requirements, levels of maintenance, repair stations, 2M facilities, high-reliability soldering techniques, and test equipment. Topic 3 covers removal/replacement/repair of miniature and microminiature components, and safety precautions.

NAVEDTRA 14187**NEETS, MODULE 15--PRINCIPLES OF SYNCHROS, SERVOS, AND GYROS**

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

Presents general information on synchros, servos, gyros, and related devices. Topic 1 presents the theory of operations and alignment procedures for synchros. Topic 2 discusses servo systems, schematic and block diagrams, circuit component characteristics, and the components and data flow of a typical system. Topic 3 discusses characteristics, properties, components and other factors concerning the gyroscope. Topic 4 discusses related devices and compares standard synchro system connections with IC synchro connections, explains step-transmitter and receiver operation, and compares a resolver to a transformer.

NAVEDTRA 14188**NEETS, MODULE 16--INTRODUCTION TO TEST EQUIPMENT**

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Presents general information on the fundamental concepts of test equipment. Topic 1 covers test equipment administration and use, focusing on Navy equipment-related programs and basic procedures. Topic 2 describes various types of measurements. Topic 3 discusses the use of basic meters. Topic 4 describes operating procedures for common Navy test equipment. Topic 5 covers special application test equipment used in the electronics field. Topic 6 explains the purpose and operation of the oscilloscope and spectrum analyzer.

NAVEDTRA 14189**NEETS, MODULE 17--RADIO-FREQUENCY COMMUNICATIONS PRINCIPLES**

Classification: UNCLASSIFIED Retirement Points: 7
Assignments: 3 Distribution Code: A

Presents general information on the fundamental concepts of radio-frequency communications. Topic 1 introduces the types of electrical telecommunications, their modes of operations, and Navy frequency band usage. Topic 2 discusses transmitters, receivers, and their control circuitry. Topic 3 describes equipment interfacing, teletypewriter and facsimile operations, security, quality monitoring, and safety. Topic 4 addresses a basic satellite communications system, equipment characteristics, theory of operation, and applications, both present and future. Topic 5 covers the lower frequency bands usage, microwave systems, the Naval Tactical Data System, portable equipment, and laser theory and applications.

NAVEDTRA 14190

NEETS, MODULE 18--RADAR PRINCIPLES

Classification: UNCLASSIFIED Retirement Points: 7

Assignments: 3 Distribution Code: A

Presents general information on radar theory, equipment, and maintenance. Topic 1 introduces basic radar concepts, principles of operation, transmission methods, and common types of radar systems. Topic 2 discusses major units of a radar including synchronizers, transmitters, duplexers, and receivers. Topic 3 addresses radar indicators and antennas. Topic 4 covers transmitter and receiver performance checks, radar support systems, and safety considerations peculiar to radar operation.

NAVEDTRA 14191

NEETS, MODULE 19--THE TECHNICIAN'S HANDBOOK

Classification: UNCLASSIFIED Retirement Points: 0

Assignments: 0 Distribution Code: A

Provides the technician who works in the electrical and electronics fields a ready reference manual that will be of assistance during everyday work. It begins with information on mishap prevention and first aid, then covers other information useful to the technician such as commonly used formulas, data tables, general maintenance hints, and a listing of often used publications and documents. **This Special Publication is only available in electronic format. You may access this publication for view/download from <https://www.advancement.cnet.navy.mil>. This publication has no associated assignments or test. It is intended for information purposes only.**

NAVEDTRA 14192

NEETS, MODULE 20--MASTER GLOSSARY

Classification: UNCLASSIFIED Retirement Points: 0
Assignments: 0 Distribution Code: A

Provides a ready reference source for the NEETS student. It begins with an alphabetized master glossary of the terms used throughout the NEETS. **This Special Publication is only available in electronic format. You may access this publication for view/download from <https://www.advancement.cnet.navy.mil>. This publication has no associated assignments or test. It is intended for information purposes only.**

NAVEDTRA 14193

NEETS, MODULE 21--TEST METHODS AND PRACTICES

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 3 Distribution Code: A

Presents information on the fundamental concepts of test methods and practices. It is written with the junior practicing technician in mind and based on Electronics Installation and Maintenance Handbook (EIMB), TEST METHODS AND PRACTICES. There are five topics: "Basic Measurements," "Component Testing," "Quantitative Measurements," "Qualitative Measurements," and "Waveform Interpretation."

NAVEDTRA 14194

NEETS, MODULE 22--INTRODUCTION TO DIGITAL COMPUTERS

Classification: UNCLASSIFIED Retirement Points: 4
Assignments: 4 Distribution Code: A

Introduces fundamental concepts of digital computers. Topic 1 discusses the history, classifications, and operational concepts of digital computers. Topic 2 presents information on hardware: central processing unit, computer storage, and input/output devices. Topic 3 covers software; operating systems, utility programs, programming, and packaged software. Topic 4 covers data representation, computer coding systems, data storage concepts, and networks.

NAVEDTRA 14195**NEETS, MODULE 23--MAGNETIC RECORDING**

Classification: UNCLASSIFIED Retirement Points: 2
Assignments: 2 Distribution Code: A

Introduces fundamental concepts of recording on magnetic tape and disks. Topic 1 states the prerequisites for magnetic recording and describes magnetic recording heads. Topic 2 describes types of magnetic tape, types of tape errors, causes of tape failure, methods of erasing tape, and procedures for handling tape. Topic 3 describes tape recorder heads and preventive maintenance requirements. Topic 4 describes tape transport systems, tape reeling systems, capstan speed control methods, and cleaning procedures. Topic 5 describes the function and main parts of a tape recorder's record and reproduce electronics. Topic 6 describes the seven most common magnetic tape recording specifications. Topic 7 describes the characteristics of digital magnetic tape recording. Topic 8 describes how floppy and hard disks are constructed, how data is recorded on them, and how they are handled and erased.

NAVEDTRA 14196**NEETS, MODULE 24--INTRODUCTION TO FIBER OPTICS**

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Presents general information on fiber optics and optical fibers. It encompasses the background on fiber optics; fiber optic concepts; optical fibers and cables; optical splices, connectors, and couplers; fiber optic measurement techniques; optical sources and fiber optic transmitters; optical detectors and fiber-optic receivers; and fiber optic systems.

NAVEDTRA 14198**OFFICIAL MAIL MANAGEMENT**

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

This course benefits personnel responsible for the Official Mail Management Program. A brief description of various cost-saving methods and postal services are discussed to better prepare a person to effectively handle and process official mail. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14202

OPERATIONS SPECIALIST 1 & C

Classification: CONFIDENTIAL Retirement Points: 9
NATO

Assignments: 6 Distribution Code: B

Covers information and CIC procedures for personnel performing duties as Operations Specialist 1st and Chief. The CIC functions include Organization and Procedures, Navigation and Rules of the Road, Surface Operations, Amphibious Warfare, NGFS, ASW, Communications, Operational Reports, EW-EMCON, Safety and Casualty Procedures, Training, and Security and Emergency Destruction. **WARNING! This product is classified NATO CONFIDENTIAL. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14203

OPERATIONS SPECIALIST 2

Classification: CONFIDENTIAL Retirement Points: 12

Assignments: 8 Distribution Code: E

Prepares the prospective OS2 for advancement in rate. Upon completing this NRTC, the student will have demonstrated a knowledge of the subject matter by answering questions on the following: radar fundamentals, scope interpretation, electronic warfare, tactical procedures, anti-air warfare, antisubmarine warfare, antisurface warfare, naval gunfire support, and tactical data systems. **WARNING! This product is classified CONFIDENTIAL. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14204**OPERATIONS SPECIALIST 3**

Classification: CONFIDENTIAL Retirement Points: 18
 Assignments: 9 Distribution Code: E

Prepares the prospective OS3 for advancement in rate. Upon completing this NRTC the student will have demonstrated knowledge of the subject matter by answering questions on the following: missions and functions of CIC, internal communications, external communications, logs, records, publications, surveillance radars, safety, radar display equipment, identification equipment, charts, grids, radar navigation, dead-reckoning systems, plotting, and maneuvering board. **WARNING! This product is classified CONFIDENTIAL. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14208**PHOTOGRAPHY (ADVANCED)**

Classification: UNCLASSIFIED Retirement Points: 9
 Assignments: 5 Distribution Code: A

Provides information and advanced techniques involved in Navy photography. It includes basic photojournalism; photographic quality assurance; electronic imaging; aerial photography; and supply and logistics. The silver recovery program and basic operator troubleshooting are also addressed. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14209**PHOTOGRAPHY (BASIC)**

Classification: UNCLASSIFIED Retirement Points: 15
 Assignments: 10 Distribution Code: A

Provides the basic information and techniques involved in Navy photography. It includes theory of light and optical principles; light sensitive materials; photographic filters; still cameras and controls; basic photographic techniques; photographic assignments; portraiture; copying; chemical mixing; image processing and control; black-and-white printing; color printing; motion media; and job control and photographic finishing.

NAVEDTRA 14210**INTRODUCTION TO THE DEPARTMENT OF THE NAVY INFORMATION AND PERSONNEL SECURITY PROGRAM**

Classification: UNCLASSIFIED Retirement Points: 17

Assignments: 11 Distribution Code: A

Provides a basic introduction to the Navy's Personnel Security Program, as set forth in SECNAVINST 5510.30A and the Navy's Information Security Program as set forth in SECNAVINST 5510.36. The first five assignments cover personnel program policy and management, including requirements for access to classified information and security education. The last six assignments cover aspects of the information security program, including classification management and the industrial security program. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download course assignments: <https://www.advancement.cnet.navy.mil> The texts for this course, Department of the Navy Personnel Security Program Regulation, SECNAVINST 5510.30A, and Department of the Navy Information Security Program Regulation, SECNAVINST 5510.36, are NOT supplied and must be obtained by the student. Available at: <http://neds.nebt.daps.mil>**

NAVEDTRA 14214**PERSONNELMAN 3 & 2**

Classification: UNCLASSIFIED Retirement Points: 23

Assignments: 15 Distribution Code: A

Acquaints the trainee with the various aspects of the Personnelman rating, such as office arrangement, Personnel Support Activities and Detachments, Enlisted Ratings, Enlisted and Officer Service Records, the Enlisted Distribution Report, Officer Distribution Control Report, Diary Message Reporting System, Counseling Service Members, Advancement, Education, Training, Commissioning Programs, Transfers, Receipts, Overseas Assignments, Naval Reserve Program, Reenlistment Incentive programs, Separations, Leave Procedures, and Electronic Data Processing.

NAVEDTRA 14217

AIRCREW SURVIVAL EQUIPMENTMAN 1 & C

Classification: UNCLASSIFIED Retirement Points: 8

Assignments: 5 Distribution Code: A

Provides information to satisfy the occupational needs of Aircrew Survival Equipmentmen in these areas: sewing machine repair; maintenance of carbon dioxide transfer equipment; oxygen system component test equipment; aircraft-mounted oxygen-breathing regulators; miniature-type oxygen-breathing regulators; aircraft liquid oxygen converters; survival procedures and search and rescue equipment. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14218

AIRCREW SURVIVAL EQUIPMENTMAN 2

Classification: UNCLASSIFIED Retirement Points: 10

Assignments: 10 Distribution Code: A

Provides information for the PR rate. Fundamental subject matter coverage of: personnel parachute familiarization; automatic opening devices; NES-12 personnel parachute system; protective equipment; rescue and survival equipment; inflatable survival equipment, seat survival kit; carbon dioxide; sewing machines; fabrication and manufacture; oxygen test stands and oxygen related components.

NAVEDTRA 14219

PUBLIC AFFAIRS POLICY AND REGULATIONS

Classification: UNCLASSIFIED Retirement Points: 20

Assignments: 9 Distribution Code: A

Covers the following subject matter: public affairs objectives, principles, organization and authority; public affairs functional and policy review; public affairs resource management; the Privacy and Freedom of Information Acts; and contingencies. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download course assignments: <https://www.advancement.cnet.navy.mil> The text for this course, Department of the Navy Public Affairs Policy and Regulations, SECNAVINST 5720.44A, is NOT supplied and must be obtained by the student. Available at: <http://neds.nebt.daps.mil>**

NAVEDTRA 14222

INFORMATION SYSTEMS TECHNICIAN TRAINING SERIES, MODULE 01--ADMINISTRATION AND SECURITY

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Provides information on the duties and responsibilities of the Radioman as they relate to automated information system (AIS) administration, communications administration, communications security, AIS security, and general security.

NAVEDTRA 14223

INFORMATION SYSTEMS TECHNICIAN TRAINING SERIES, MODULE 02--COMPUTER SYSTEMS

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Provides information on the duties and responsibilities of the Radioman as they relate to computer hardware startup, computer center operations, and data management.

NAVEDTRA 14224

INFORMATION SYSTEMS TECHNICIAN TRAINING SERIES, MODULE 03--NETWORK COMMUNICATIONS

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

Provides information on the duties and responsibilities of the Radioman as they relate to network administration, local area network (LAN) hardware, and network troubleshooting.

NAVEDTRA 14225A

INFORMATION SYSTEMS TECHNICIAN TRAINING SERIES, MODULE 04--COMMUNICATIONS HARDWARE

Classification: UNCLASSIFIED Retirement Points: 3

Assignments: 2 Distribution Code: A

Provides information on the following subject matter areas: communications hardware, satellites, and antennas.

NAVEDTRA 14226

INFORMATION SYSTEMS TECHNICIAN TRAINING SERIES, MODULE 05--COMMUNICATIONS CENTER OPERATIONS

Classification: UNCLASSIFIED Retirement Points: 3

Assignments: 2 Distribution Code: A

Provides information on the duties and responsibilities of the Radioman as they relate to center operations, voice communications, emission control, and cryptosecurity.

NAVEDTRA 14227

RELIGIOUS PROGRAM SPECIALIST 1 & C

Classification: UNCLASSIFIED Retirement Points: 5

Assignments: 5 Distribution Code: A

Discusses the management skills necessary to the management of the Command Religious Program. Information is provided regarding the history of the Chaplain Corps and the Religious Program Specialist rating; office management skills and the management of naval communications; financial management; personnel management; and the education and training of Command Religious Program personnel, volunteer CRP personnel, and lay readers. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14228

RELIGIOUS PROGRAM SPECIALIST 3

Classification: UNCLASSIFIED Retirement Points: 5

Assignments: 3 Distribution Code: A

Covers basic information on the RP rating; command religious program (CRP); religious ministry facility (RMF); military weddings and funerals; major religions of the world; worship support functions; pastoral counseling support; information and referral assistance; logistics and support of the chapel, chaplain's office, RMF, and CRP; religious offering funds; religious education; publicity; security; library support; audiovisual presentations; and other aspects of chaplain backing and support, including religious program support in the field.

NAVEDTRA 14229

RELIGIOUS PROGRAM SPECIALIST 3 & 2, MODULE 01--PERSONNEL SUPPORT

Classification: UNCLASSIFIED Retirement Points: 12

Assignments: 8 Distribution Code: A

Covers basic information on the major religions of the world; worship support functions, chapel weddings and military funerals; information and referral assistance; publicity, material, and facility support within the Command Religious Program; audiovisual presentations; and shipboard library support.

NAVEDTRA 14230

RELIGIOUS PROGRAM SPECIALIST 3 & 2, MODULE 02--LOGISTIC SUPPORT AND FINANCIAL CONTROL

Classification: UNCLASSIFIED Retirement Points: 5

Assignments: 3 Distribution Code: A

Covers procuring, providing, and inventorying the materials necessary for the support of the chapel program; the preparation of procurement and reimbursement documents and the maintenance of departmental budget records and operating targets (OPTARs).

NAVEDTRA 14231

RELIGIOUS PROGRAM SPECIALIST 3 & 2, MODULE 03--ADMINISTRATION

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 5 Distribution Code: A

Covers the maintenance of Command Religious Program files and records; publications and directives; grammar and writing skills; presentation of correspondence; and officer and enlisted service records.

NAVEDTRA 14232

SOUND-POWERED TELEPHONE TALKERS' MANUAL

Classification: UNCLASSIFIED Retirement Points: 2
Assignments: 1 Distribution Code: A

Supplies the basic knowledge necessary for the sound-powered telephone talker in any situation or condition. The manual is designed for individual study and is designed to meet the E-2/3 naval standards, but also applies to all ratings and paygrades. **NOTE: This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14233

NAVAL CONSTRUCTION FORCE/SEABEE 1 & C

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: A

Provides information needed by first class and chief petty officers in the Seabee ratings. Subjects included are: administration; project and construction planning and management; advanced base planning and embarkation; battalion turnover and tool management; NCF camp maintenance; environmental pollution control; contract Quality Assurance; and facilities maintenance management.

NAVEDTRA 14234

SEABEE COMBAT HANDBOOK, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 18
Assignments: 9 Distribution Code: A

Provides the basic information and techniques involved in defensive combat. It includes organization of the Seabees and the laws of war; special clothing and equipment; service rifle and pistol marksmanship; combat maneuvers, formations, patrols, and ambush; land navigation; evasion, survival, and escape; individual protective measures; entanglements; CBR defense; first aid and field sanitation; organic communications equipment; hand grenades, landmines and booby traps; and organic support weapons.

NAVEDTRA 14235

SEABEE COMBAT HANDBOOK, VOLUME 02

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Consists of chapters on Organization and Operation of the Combat Operations Center, Organization and Operation of the Company Command Post, Setup and Control of Medical Evacuation (MEDEVAC), Planning and Development of Defense Tactics, Counter Ambush Techniques, CBR Decontamination.

NAVEDTRA 14244

SIGNALMAN 3 & 2

Classification: UNCLASSIFIED Retirement Points: 21
Assignments: 13 Distribution Code: A

Provides information in the following areas: visual communications; signal equipment; messages; allied communication procedures; allied flaghoist procedures; international signaling; convoy communications; watchstanding duties; honors and ceremonies; security; amphibious duties; aircraft and ship identification, and technical administration.

NAVEDTRA 14250

STEELWORKER, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Covers properties and uses of metals and alloys, basic heat treatment of metals, and an introduction to welding, gas cutting, gas welding, soldering, brazing, braze welding, wearfacing, shielded metal-arc welding and wearfacing, gas-shielded-arc welding.

NAVEDTRA 14251

STEELWORKER, VOLUME 02

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: A

Steelworkers fabricate and erect or install pre-engineered structures and layout and fabricate structural steel and fiber-glass duct. This course covers the layout and fabrication of sheet metal, fiber-glass duct, structural steel and pipe; the handling and care of wire rope and fiber line; the operation of hoisting devices and rigging; and procedures for erecting or assembling steel buildings, towers, antennas, tanks, airfield mattings and k-spans.

NAVEDTRA 14252

TIME CONVERSION

Classification: UNCLASSIFIED Retirement Points: 2
Assignments: 1 Distribution Code: A

Assists enlisted and officer personnel of the United States Navy and Naval Reserve in acquiring the knowledge requisite to the computation of time. It uses two-dimensional charts and expanded narratives to explain both the global division and designation, and the processes and mathematical formulas used in the conversion of time. **This course is only available in electronic format. You may enroll in this course and/or download course material at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14256**TOOLS AND THEIR USES**

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Provides information on the use and care of basic hand tools and measuring tools. It covers the types and uses of a large number of basic tools used in many jobs throughout the Navy. The safety requirements, general care, and repair procedures are discussed for each tool. This course is intended for use by all Navy personnel. The text used with this course furnishes information on how to choose the proper tool for each job, examples of how the tools should be used, and the safety precautions that must be followed. Students may keep the text for future reference. When they need information about a specific tool or operation, they can simply refer to the alphabetical index at the end of the manual and turn to the pages that apply.

NAVEDTRA 14259**UTILITIESMAN (ADVANCED)**

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: A

Provides information pertaining to blueprint reading and technical drawings; planning, estimating, and scheduling; planning plumbing projects; fire protection systems; water treatment and purification; sewage treatment and disposal; compressed air systems; boilers; duct and ventilation systems, air conditioning and refrigeration; and environmental pollution control. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14260

YEOMAN 1 & C

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Covers material on the following subjects: the Navy Yeoman, education advancement, career opportunities, assignments, retention, administrative procedures, forms, reports, control records disposal, personnel support, manpower authorization, travel, security, legal, and separations. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14261A

YEOMAN BASIC

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Covers the following subjects: the Navy Yeoman, official publications and directives, correspondence/message system, processing correspondence/messages, correspondence/message files and disposal, directives issuance system, reports and forms management programs, security, legal, awards, officer distribution control report (ODCR), officer service records, travel, leave procedures, pay and allowances, and technical administration.

NAVEDTRA 14264

CONSTRUCTION MECHANIC BASIC, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Construction Mechanic, Volume 01 consists of chapters covering technical administration, principles of an internal combustion engine, construction of an internal combustion engine, gasoline fuel systems, diesel fuel systems and cooling and lubricating systems.

NAVEDTRA 14265

UTILITIESMAN BASIC, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 14
Assignments: 9 Distribution Code: A

Utilitiesman Basic, Volume 01 consists of chapters on plans, specifications, and color coding; Advanced Base Functional Components (ABFC); plumbing; plumbing valves and accessories; plumbing fixtures and plumbing repairs; prime movers, pumps and compressors; water treatment; and maintenance of water treatment equipment.

NAVEDTRA 14269

AEROGRAPHER'S MATE, MODULE 01--SURFACE WEATHER OBSERVATIONS

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

Serves as an introduction to identifying cloud types, surface weather observation elements, and conducting surface weather observations. The module also includes a complete explanation of how to record and encode surface METAR observations, and a description of meteorological observation equipment ashore and aboard ship.

NAVEDTRA 14270

AEROGRAPHER'S MATE, MODULE 02--MISCELLANEOUS OBSERVATIONS AND CODES

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

Introduces and demonstrates the procedures for using meteorological upper air equipment and bathythermograph equipment to acquire upper air and bathythermograph data. Describes the proper procedures for encoding and decoding upper air and bathythermograph observations. Module 2 also discusses aviation observations and codes such as Terminal Aerodrome Forecasts (TAFs) Pilot Weather Reports (PIREPS) and includes chapters on Surf Observation procedures and Radiological Fallout and Chemical Contamination plotting procedures.

NAVEDTRA 14271

AEROGRAPHER'S MATE, MODULE 03--ENVIRONMENTAL SATELLITES AND WEATHER RADAR

Classification: UNCLASSIFIED Retirement
Points: 2

Assignments: 1 Distribution
Code: A

Serves as an introduction to the various types of environmental satellites, satellite imagery, associated terminology, and equipment. In addition, Module 3 also contains information on the Weather Surveillance Radar - 1998 Doppler (WSR88D), including radar principles and equipment configuration and operation.

NAVEDTRA 14272

AEROGRAPHER'S MATE, MODULE 04--ENVIRONMENTAL COMMUNICATIONS AND ADMINISTRATION

Classification: UNCLASSIFIED Retirement
Points: 2

Assignments: 1 Distribution
Code: A

Serves as an introduction to the most widely used environmental communications systems within the METOC community. It also describes the software programs and products associated with these systems. Module 4 concludes with a discussion of basic administration procedures.

NAVEDTRA 14273

CONSTRUCTION MECHANIC BASIC, VOLUME 02

Classification: UNCLASSIFIED Retirement
Points: 12

Assignments: 8 Distribution
Code: A

Consists of eight chapters that cover basic automotive electricity; automotive electrical circuits and wiring; hydraulic and pneumatic systems; automotive clutches; transmissions; and transaxles; drive lines; differentials; drive axles and power train accessories; construction equipment power trains; brakes, and automotive chassis and body.

NAVEDTRA 14274

DENTAL TECHNICIAN, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: A

This course addresses the following subjects: general administration and orientation; technical administration and responsibilities; head and neck anatomy; oral anatomy and pathology; emergency treatment for oral diseases and injuries; oral pharmacology; nutrition and diet; infection control; sterilization and infection; dental safety and equipment safety; shipboard, fleet marine force, and naval mobile construction; casualty care and CBR warfare.

NAVEDTRA 14275

DENTAL TECHNICIAN, VOLUME 02

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

This course addresses the following subjects: dental radiology and examinations; preventive and operative dentistry; oral surgery; periodontal, endodontic, and prosthodontic assistance; dental treatment room emergencies, and forensic dentistry.

NAVEDTRA 14276

ILLUSTRATOR DRAFTSMAN, VOLUME 02

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

This volume is Volume 2 in the DM training series. The training manual and separate NRTC cover the following subjects pertaining to standard drafting practices and theory: composition, geometric construction, technical drawings, and perspective and parallel projections.

NAVEDTRA 14279

UTILITIESMAN BASIC, VOLUME 02

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: A

This TRAMAN/NRTC consists of 7 chapters that cover boilers, boiler maintenance, boiler water treatment and cleaning, steam distribution systems, heating systems, galley equipment, laundry equipment, refrigeration, and air conditioning.

NAVEDTRA 14281

HISTORY OF THE CHAPLAIN CORPS, PART 01

Classification: UNCLASSIFIED Retirement Points: 12
Assignments: 8 Distribution Code: A

Presents the History of the Chaplain Corps from the days of the Continental Navy to 8 September 1939. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14282

HISTORY OF THE CHAPLAIN CORPS, PART 02

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Continues the History of the Chaplain Corps through 1949. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14283

HISTORY OF THE CHAPLAIN CORPS, PART 03

Classification: UNCLASSIFIED Retirement Points: 15
Assignments: 10 Distribution Code: A

Presents the History of the Chaplain Corps during the Korean Conflict from June 1950 to June 1954. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14284

HISTORY OF THE CHAPLAIN CORPS, PART 04

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Presents the History of the Chaplain Corps during the Vietnam conflict between 1954 and 1975. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14285

HISTORY OF THE CHAPLAIN CORPS, PART 05

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

This course covers the historical contributions made by the U.S. Chaplain Corps to Marines in Vietnam from 1962 through 1971. Specifically, the course details circumstances surrounding Chaplain Corps' efforts to do the following: minister to Marines in need during wartime; assess and meet the increasing, multiple demands of Marines in all areas of combat activity; and counsel and aid each Marine on an individual basis. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14292

AVIATION MAINTENANCE ADMINISTRATIONMAN BASIC

Classification: UNCLASSIFIED Retirement Points: 11
Assignments: 7 Distribution Code: A

Provides Aviation Maintenance Administrationman personnel with occupational information on the following areas: the Naval Aviation Maintenance Program; maintenance administration; technical publication library; maintenance control and production control; the Maintenance Data System; aircraft logbooks; the Aircraft Inventory Reporting System; the Aeronautical Equipment Service Record; and the Aircraft Engine Management System.

NAVEDTRA 14293

LITHOGRAPHER

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Enrollment in this course is RESTRICTED only to U.S. Navy enlisted Lithographer (LI) personnel. Enrollment request from non-LI personnel will be rejected. The course contains information on the following subjects: the lithographic process; planning and control; type and typography; art and copy preparation; basic camera operation; color separation and correction; film image assembly; proofing; platemaking; electronic prepress production; ink; paper; presswork and finishing. **To enroll in this course call 1-877-264-8583 OR e-mail NETPDTC at fleetservices@cnet.navy.mil The textbook for this course, The Lithographers Manual, 9th edition, is a commercial text and can be purchased from the following address: Graphics Arts Technical Foundation P.O. Box 1020 Sewickley, PA 15143-1020 Phone (US and Canada): 800/662-3916 Phone (all other countries): 412/741-5733 Fax: 412/741-0609 Email: gatforders@abdintl.com**

NAVEDTRA 14295

HOSPITAL CORPSMAN

Classification: UNCLASSIFIED Retirement Points: 14
Assignments: 9 Distribution Code: A

Covers anatomy and physiology; fundamentals of patient care; first aid equipment, supplies, rescue, and transportation; emergency medical care procedures; poisoning; drug abuse, and hazardous material exposure; pharmacy and toxicology; clinical laboratory; medical aspects of chemical, biological, and radiological warfare; diet and nutrition; emergency dental care; preventive medicine; physical examinations; health records; supply; administration; healthcare administration; and decedent affairs.

NAVEDTRA 14300

NAVY INSTRUCTIONAL THEORY

Classification: UNCLASSIFIED Retirement Points: 8
Assignments: 5 Distribution Code: A

Provides knowledge factors and background information on the theory and techniques of Navy classroom instruction. This course is a prerequisite for Naval Reservists in preparation for the two week group-paced instructor course. The nonresident training course covers Navy training, the Navy instructor, motivation, principles of learning, effective communications, instructional methods, learning objectives, testing, course materials, and instructor evaluation.

NAVEDTRA 14308

OPERATIONS SPECIALIST, VOLUME 01

Classification: UNCLASSIFIED Retirement Points: 11
Assignments: 7 Distribution Code: A

The text for this course consists of the unclassified material (updated as necessary) contained in Operations Specialist 2 (NAVEDTRA 10106) and Operations Specialist 3 (NAVEDTRA 10105). Operations Specialist, Volume 2 (when published) will consist of the classified material (updated as necessary) currently contained in NAVEDTRA 10106 and NAVEDTRA 10105. When Operations Specialist, Volume 2 is published, NAVEDTRA 10106 and NAVEDTRA 10105 will be deleted from the system. Topics covered in Operations Specialist, Volume 1 are: missions and functions of CIC; CIC displays; internal communications; logs, records, and publications; radar fundamentals, radar display equipment, scope interpretation; identification; dead-reckoning systems, plotting; maneuvering board; charts, grids, and radar navigation, and search and rescue.

NAVEDTRA 14309

INTEGRATED UNDERSEA SURVEILLANCE SYSTEM OPERATIONS (IUSS)

Classification: SECRET	Retirement Points: 8
Assignments: 5	Distribution Code: E

Covers the Integrated Undersea Surveillance System (IUSS) systems and subsystems, search planning, analyzing contact data, contact positioning, reporting contact data, and processing contact data. **WARNING! This product is classified SECRET. Enrollment instructions for classified courses are listed in the front of this catalog.**

NAVEDTRA 14310

AVIATION BOATSWAIN'S MATE E

Classification: UNCLASSIFIED	Retirement Points: 8
Assignments: 5	Distribution Code: A

This NRTC presents the basic fundamentals of maintenance tools and their uses, measuring tools and techniques, MK 7 aircraft recovery equipment, emergency recovery equipment, steam catapults, associated launching equipment, the aircraft launch and recovery equipment maintenance program, and maintenance planning and administration.

NAVEDTRA 14312

AEROGRAPHER'S MATE, MODULE 05--BASIC METEOROLOGY

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

This NRTC describes the basic fundamentals of meteorology, atmosphere physics, atmospheric circulation, air masses and fronts, atmospheric phenomena, climate and climatology.

NAVEDTRA 14313

AVIATION ORDNANCEMAN

Classification: UNCLASSIFIED Retirement Points: 21
Assignments: 14 Distribution Code: A

Provides information to satisfy the occupational needs of the Aviation Ordnanceman in the following areas: bombs, fuses, and associated components; aircraft rockets and rocket launchers; air-launched guided missiles and guided missile launchers; pyrotechnics, air-laid mines and torpedoes; M61A1 gun installation; ammunition loading; targets and associated equipment; ammunition handling equipment; suspension, arming, and releasing equipment; ammunition storage and handling afloat; ammunition storage and handling ashore; weapons assembly; aircraft loading and unloading procedures; aircraft weapons systems; aircraft weapons systems test equipment; and ammunition administration ashore and afloat.

NAVEDTRA 14314

SHIP'S SERVICEMAN

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Provides information on organization, administration, and security; ship's laundry; dry-cleaning plant; barbershop; retail outlets; cash collections; appropriations and funds; procurement; receipts and expenditures; stowage; inventory; and returns.

NAVEDTRA 14315

AVIATION STRUCTURAL MECHANIC

Classification: UNCLASSIFIED Retirement Points: 20
Assignments: 13 Distribution Code: A

This course provides information on aircraft construction and materials, aircraft hardware and seals, general aircraft maintenance, and hydraulic contamination and related servicing. It also covers test equipment, hose fabrication and maintenance, tubing fabrication and maintenance, basic power systems, fixed-wing flight control systems, and rotary-wing flight control systems. This course also provides information on aircraft wheels, tires, and tubes, landing gear, brakes, and hydraulic utility systems, aircraft metallic and nonmetallic repair, and nondestructive inspections, welding, and heat treatment.

NAVEDTRA 14316

CAPTIVITY: THE EXTREME CIRCUMSTANCE

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: B

This course provides historical information and policy pertaining to prisoners of war, to show how this knowledge can provide captivity survival skills, and to suggest avenues of support for POWs/MIAs and their families.

NAVEDTRA 14317

POSTAL CLERK

Classification: UNCLASSIFIED Retirement Points: 15
Assignments: 10 Distribution Code: A

This course is for the Postal Clerk who is interested in increasing his/her knowledge of the rating or for the Striker who desires to work within the postal community. Various types of mail such as domestic, international, registered, and certified are covered in detail as well as the operation of a military post office. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14318

AVIATION ELECTRICITY AND ELECTRONICS--MAINTENANCE FUNDAMENTALS

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Provides information on mathematics, physics, maintenance and troubleshooting, and common test equipment. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14319

DEPARTMENT OF THE NAVY CORRESPONDENCE MANUAL COURSE

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Questions in this course cover information on the administrative and managerial responsibilities of the DON correspondence program. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download course assignments: <https://www.advancement.cnet.navy.mil> The text for this course, Department of the Navy Correspondence Manual, SECNAVINST 5216.5D, is NOT supplied and must be obtained by the student. Available at <http://neds.nebt.daps.mil>**

NAVEDTRA 14320

EVALUATION/FITNESS REPORT

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Questions in the course cover information on the procedures and requirements for preparing, recording, and submitting evaluation and fitness reports on naval personnel. **NOTE: This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download course assignments: <https://www.advancement.cnet.navy.mil> Download course text: <https://www.bupers.navy.mil> The text for this course, Navy Performance Evaluation and Counseling System, BUPERSINST 1610.10, is NOT supplied and must be obtained by the student. Available at <http://www.bupers.navy.mil>**

NAVEDTRA 14321

JOURNALIST BASIC

Classification: UNCLASSIFIED Retirement Points: 18
Assignments: 13 Distribution Code: A

This NRTC addresses the following subject matter areas--basic news writing, writing for features, speeches, sports, accidents, magazines, advance stories, follow-ups and rewrites, copy editing, gathering and disseminating Navy news, writing for publications, headlines, and cutlines. It also addresses legal concerns, photography, photojournalism, broadcast writing, radio and television operations and interviewing, public affairs operations and fleet hometown news.

NAVEDTRA 14322

AVIATION BOATSWAIN'S MATE F

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Serves as an introduction to afloat and ashore fuels division organization, general maintenance equipment, quality surveillance, JP-5 afloat below deck systems and operations, JP-5 afloat flight deck systems and operations, afloat lub oil and MOGAS systems and operations, ashore systems and operations, and administration.

NAVEDTRA 14323

AVIATION ELECTRICITY AND ELECTRONICS--POWER GENERATION AND DISTRIBUTION

Classification: UNCLASSIFIED Retirement Points: 2

Assignments: 1 Distribution Code: A

Provides information on aircraft electrical power sources and circuit protection and distribution. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14324

GUNNER'S MATE

Classification: UNCLASSIFIED Retirement Points: 12

Assignments: 8 Distribution Code: A

Covers explosives and pyrotechnics; ammunition, magazines, and missile handling; small arms; basic mechanisms; electrical and electronic circuit analysis; gun mounts; GMLS: primary functions and descriptions; GMLS: secondary and auxiliary functions; SMS guided missiles, aerodynamics, and flight principles; target detection and weapons control; alignment; maintenance.

NAVEDTRA 14325

MILITARY REQUIREMENTS, BASIC (BMR)

Classification: UNCLASSIFIED Retirement Points: 15

Assignments: 15 Distribution Code: A

Provides a self-study training course that covers the basic professional military knowledges required of the men and women of the U.S. Navy and Naval Reserve. This course provides subject matter that directly relates to the naval standards for the apprenticeship (E-2/E-3) rates. The naval standards are found in the Manual of Navy Enlisted Manpower and Personnel Classification and Occupational Standards (Volume 1), NAVPERS 18068F.

NAVEDTRA 14326

STOREKEEPER BASIC

Classification: UNCLASSIFIED Retirement Points: 18
Assignments: 12 Distribution Code: A

Addresses the following subject matter areas: supply organization and administration; material identification, procurement, receipt, custody, storage, expenditures, handling and shipment; stock control; inventory management; financial management; aviation material management and supply support; and supply procedures in the Naval Construction Force.

NAVEDTRA 14327

AVIATION STRUCTURAL MECHANIC E

Classification: UNCLASSIFIED Retirement Points: 9
Assignments: 6 Distribution Code: A

Provides information on the Martin-Baker MK-GRUEA-7 ejection seat, the Navy aircrew common ejection seat (NACES), canopy systems, the Explosives Handling Personnel Qualification and Certification Program, utility systems, air-conditioning and pressurization systems, oxygen systems, and oxygen support equipment.

NAVEDTRA 14328

AVIATION WARFARE SYSTEMS OPERATOR, MODULE 01 - AIRCREW FUNDAMENTALS

Classification: SECRET Retirement Points: 3
Assignments: 2 Distribution Code: E

NRTC addresses the Aviation Warfare Systems Operator rating, security of classified information, publications and flight records, USW stores, communications, search and rescue operations, combat search and rescue, and warship, submarine, aircraft, air defense systems and non-combatant recognition. **Your command representative can also order a set of CD's containing all AW NRTC's and the CD's containing the survival-training videos. These CDS contain course materials in Portable Document Format (PDF) and are duplicates of printed courses. Due to budget restraints, commands should order limited quantities of these CDs and we restrict orders to Navy, Marine, and Coast Guard. Commands may order these CDs via Naval Message or by letter. Phone, fax, or e-mail orders cannot be accepted. Both message and letter should include the command's UIC, CD Title, Volume number, and point of contact information. For questions about ordering call Toll Free 1-877-264-8583 or DSN 922-1181/1511 or e-mail fleetservices@cnet.navy.mil . Address Naval Message to: NETPDTC N331 Address letter on command letterhead, signed by Commanding Officer or By Direction, to: COMMANDING OFFICER, NETPDTC N331, 6490 SAUFLEY FIELD ROAD, PENSACOLA FL 32559-5000**

NAVEDTRA 14329

AVIATION SUPPORT EQUIPMENT TECHNICIAN

Classification: UNCLASSIFIED	Retirement Points:	15
Assignments: 10	Distribution Code:	A

This course covers the Aviation Support Equipment Technician rating; automotive chassis and frames; principles of internal combustion engines; and internal combustion engines fuel, cooling and lubricating systems. This course also covers support equipment automotive electrical systems, electrical power generating systems, hydraulic systems, pneumatic systems, and liquid and gaseous oxygen systems and equipment. Also covered are mobile air conditioners, gas turbine compressors, shipboard aircraft crash cranes and slings, fire-fighting equipment, forklifts, and flight deck scrubbers.

NAVEDTRA 14331

ENGINEMAN 3

Classification: UNCLASSIFIED	Retirement Points:	14
Assignments: 9	Distribution Code:	A

Provides an introduction to the Engineman rating and information on the reciprocating internal-combustion engine, principal stationary and moving parts of an engine, drive mechanisms, intake and exhaust systems, cooling systems, lubricating oil systems, diesel fuel systems, control devices, starting systems, diesel engine operating practices, transmission of engine power, pumps and valves, compressed air systems, distilling plants, refrigeration, air conditioning, and auxiliary equipment.

NAVEDTRA 14332

ILLUSTRATOR DRAFTSMAN, VOLUME 01--EQUIPMENT

Classification: UNCLASSIFIED Retirement Points: 8

Assignments: 5 Distribution Code: A

This is Volume 1 of the DM training series. Volume 1 is an overview of general shop administration; equipment, equipment capabilities, limitations, and maintenance; and required operator adjustments. **This is NOT a new course. No technical changes were made to the NRTC. The new NAVEDTRA number reflects the combining of DM 3 and 2, Volume 1 (NAVEDTRA 14063) and DM 1 and C, Volume 1 (NAVEDTRA 14064) which were merged to reduce printing costs.**

NAVEDTRA 14333

ILLUSTRATOR DRAFTSMAN, VOLUME 03--EXECUTIONABLE PRACTICES

Classification: UNCLASSIFIED Retirement Points: 12

Assignments: 8 Distribution Code: A

This is Volume 3 of the DM training series. This volume covers the theory of color, photography, computer-generated art, figure drawing, cartooning, animation, mediums, lettering and airbrush. **This is NOT a new course. This course consists of DM 3 and 2, Volume 3 (NAVEDTRA 14262) and DM 1 and C, Volume 3 (NAVEDTRA 14263) which were merged to reduce printing costs.**

NAVEDTRA 14334

ILLUSTRATOR DRAFTSMAN, VOLUME 04--PRESENTATIONS GRAPHICS

Classification: UNCLASSIFIED Retirement Points: 5

Assignments: 3 Distribution Code: A

This is Volume 4 of the DM training series. This NRTC covers the following subject matter areas pertaining to presentations graphics: copy preparation, audiovisual presentations, television graphics, and displays and exhibits. **This is NOT a new course. This course consists of DM 3 and 2, Volume 4 (NAVEDTRA 14065) and DM 1 and C, Volume 4 (NAVEDTRA 14066) which were merged to reduce printing costs.**

NAVEDTRA 14335

JOURNALIST ADVANCED

Classification: UNCLASSIFIED Retirement Points: 15
Assignments: 9 Distribution Code: A

This NRTC addresses the following subject matter areas: Public affairs office management, public affairs in adverse news situations, the command information bureau, media relations, community relations and special events, speeches, newspaper staff supervision, broadcast management, and audience surveys. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14336

ENGINEERING AID 1

Classification: UNCLASSIFIED Retirement Points: 6
Assignments: 4 Distribution Code: A

This NRTC provides information on technical administration and supervision; time designation and triangulation; soils, including surveying and exploration, classification, and field identification; mix design, including concrete and asphalt; and soil stabilization. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14337

ENGINEERING AID 2

Classification: UNCLASSIFIED Retirement Points: 18
Assignments: 12 Distribution Code: A

Provides information on construction methods and materials, heavy construction and electrical and mechanical systems; horizontal construction; project drawings; specifications, material estimating, and advanced base planning; care and adjustment of surveying equipment; indirect leveling and level and traverse computations; topographic surveying and mapping; plane-table topography and map projection; engineering and land surveys; horizontal and vertical curves; electronic surveying equipment; and materials testing. **NOTE: This NAVEDTRA course number was changed to reflect minor administrative updates with little change to technical content. If you previously completed NAVEDTRA 14071, there is no need to take this course.**

NAVEDTRA 14338

QUARTERMASTER

Classification: UNCLASSIFIED	Retirement Points: 21
Assignments: 14	Distribution Code: A

Contains information on the following subject matter: Introduction to navigation; compasses; navigational publications; the nautical road; basics of time; introduction to celestial navigation; tides and currents; dead reckoning, piloting, and electronic navigation; celestial observations and sight reduction methods; weather observation; ship's bridge; and voyage planning. **This course replaces Quartermaster 1&C (NAVEDTRA 14220) and Quartermaster 3&2 (NAVEDTRA 14221). If you have previously completed either 14220 and/or 14221, you do not have to take this course. If NAVEDTRA 14220 or 14221 appears on your Exam BIB, you may study NAVEDTRA 14220, NAVEDTRA 14221, OR NAVEDTRA 14338.**

NAVEDTRA 14339

AVIATION ELECTRICITY AND ELECTRONICS--RADAR

Classification: UNCLASSIFIED	Retirement Points: 2
Assignments: 1	Distribution Code: A

This course provides Aviation Electricians and Electronics Technicians information pertaining to the fundamental concepts of RADAR and IFF. It also provides an overview of select RADAR and IFF systems currently in use in Naval aircraft.

NAVEDTRA 14340

AVIATION ELECTRICITY AND ELECTRONICS--UNDERSEA WARFARE

Classification: UNCLASSIFIED Retirement Points: 2

Assignments: 1 Distribution Code: C

Provides information on acoustic systems and magnetic anomaly detection (MAD).

NAVEDTRA 14342

AIR TRAFFIC CONTROLLER

Classification: UNCLASSIFIED Retirement Points: 12

Assignments: 8 Distribution Code: C

Presents an overview of the AC rating to include aviation weather; air navigation and aids to air navigation; military aircraft characteristics and performance; airport lighting, markings, and equipment; air traffic control equipment; airspace classification; flight assistance services; general flight rules and IFR/SVFR control procedures; control tower operations; radar operations; shipboard operations; and facility operations. Reviews air traffic control operator technical knowledge with emphasis on technical knowledge associated with supervisory performance such as air traffic control training certification, plans, reports, flight inspections, and required resources as well as aircraft accidents and incidents. **This course replaces Air Traffic Controller 1&C (NAVEDTRA 14006) and Air Traffic Controller 2 (NAVEDTRA 14007). If you have previously completed either NAVEDTRA 14006 and/or NAVEDTRA 14007, you do not have to take this course. If NAVEDTRA 14006 or NAVEDTRA 14007 appears on your Exam BIB, you may study NAVEDTRA 14006, NAVEDTRA 14007, OR NAVEDTRA 14342.**

NAVEDTRA 14343

BOATSWAIN'S MATE

Classification: UNCLASSIFIED Retirement Points: 15

Assignments: 10 Distribution Code: B

Contains information on the following subject matter: Boatswain's mate duties; marlinespike and deck seamanship; ground tackle, towing, and salvage; boats and davits; boat handling; communications; rigging; cargo handling; underway replenishment; painting; hazardous materials; and amphibious duties. **This course replaces Boatswain's Mate 3 & 2 (NAVEDTRA 14042) and Boatswain's Mate 1 & C (NAVEDTRA 14041). If you have previously completed either NAVEDTRA 14042 and/or NAVEDTRA 14041, you do not have to take this course. If NAVEDTRA 14041 or NAVEDTRA 14042 appears on your Exam BIB, you may study NAVEDTRA 14041, NAVEDTRA 14042, OR NAVEDTRA 14343.**

NAVEDTRA 14344

ELECTRICIAN'S MATE

Classification: UNCLASSIFIED	Retirement Points: 15
Assignments: 10	Distribution Code: A

Provides information in the following areas: rating information, safety practices, and administration; electrical power distribution systems, shipboard lighting, electrical auxiliaries, motor controllers, maintenance and repair of rotating electrical machinery; voltage and frequency regulation; electrohydraulic load-sensing speed governors; degaussing; cathodic protection; visual landing aids; engineering plant operations, maintenance, and inspections, and engineering casualty control.

NAVEDTRA 14345

MACHINERY REPAIRMAN

Classification: UNCLASSIFIED	Retirement Points: 11
Assignments: 7	Distribution Code: C

Provides information on tools, shop equipment, and methods commonly used by an MR in the operation of Navy machine shops. **This course replaces Machinery Repairman 3 (NAVEDTRA 14161) and Machinery Repairman 2, 1 & C (NAVEDTRA 14162). If you have previously completed either NAVEDTRA 14161 and/or NAVEDTRA 14162, you do not have to take this course. If NAVEDTRA 14161 or NAVEDTRA 14162 appears on your Exam BIB, you may study NAVEDTRA 14161, NAVEDTRA 14162, OR NAVEDTRA 14345. DUE TO COPYRIGHT RESTRICTIONS, THIS COURSE CANNOT BE DOWNLOADED FROM THIS WEBSITE.**

NAVEDTRA 14347

ELECTRONICS TECHNICIAN SUPERVISOR

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Contains information on the following subject matter: Organization and administration; supervision and training; combat systems; casualty control and reporting; quality assurance; test equipment; and maintenance and COSAL. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14348

MINEMAN VOLUME 02

Classification: UNCLASSIFIED Retirement Points: 5
Assignments: 3 Distribution Code: A

Addresses the Mineman rating on administrative functions and supply procedures.

NAVEDTRA 14349

MINEMAN, VOLUME 3

Classification: UNCLASSIFIED Retirement Points: 3
Assignments: 2 Distribution Code: A

Text covers Underwater Mine Maintenance System and Mine Handling and Storage. **This course replaces Mineman, Volume 3 (3&2), (NAVEDTR 14156) and Mineman, Volume 3 (1&C) (NAVEDTRA 14155). If you have previously completed either NAVEDTRA 14155 and/or NAVEDTRA 14156, you do not have to take this course. If NAVEDTRA 14155 or NAVEDTRA 14156 appears on your Exam BIB, you may study NAVEDTRA 14155, NAVEDTRA 14156, or NAVEDTRA 14349.**

NAVEDTRA 14350**ADMIRALTY LAW AND ITS APPLICATION IN NAVY ADMIRALTY CLAIMS PRACTICE: A PRIMER**

Classification: UNCLASSIFIED Retirement Points: 3
 Assignments: 2 Distribution Code: A

This course describes admiralty law, its application in Navy Admiralty Claims Practice, and contains an excerpt of change 12 from the JAG Manual. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil> Download: <https://www.advancement.cnet.navy.mil>**

NAVEDTRA 14351**LEGALMAN**

Classification: UNCLASSIFIED Retirement Points: 11
 Assignments: 7 Distribution Code: A

This NRTC covers the following subject matter areas: General administration and security; legal research; court reporting; constitutional considerations; nonjudicial punishment; pretrial matters; court-martial trials; posttrial duties and review process; administrative separations; delivery of personnel; legal assistance; claims; administrative investigations; and office organization, management and supervision. **This course is only available in electronic format. You may enroll in this course and/or download course materials at the following Internet sites: Enroll: <https://www.courses.cnet.navy.mil>. Download: <https://www.advancement.cnet.navy.mil> This course replaces Legalman 3&2 (NAVEDTRA 14134) and Legalman 1&C (NAVEDTRA 14135). If you have previously completed either NAVEDTRA 14134 and/or NAVEDTRA 14135, you do not have to take this course. If NAVEDTRA 14134 or NAVEDTRA 14135 appears on your Exam BIB, you may study NAVEDTRA 14134, NAVEDTRA 14135, OR NAVEDTRA 14351.**

NAVEDTRA 14353**AVIATION BOATSWAIN'S MATE H**

Classification: UNCLASSIFIED Retirement Points: 11
 Assignments: 7 Distribution Code: A

Provide information on tools and equipment, aircraft handling equipment, aircraft handling, aircraft firefighting, and crash and salvage, and shore base emergency arresting gear.

NAVEDTRA 14504

MILITARY REQUIREMENTS FOR PETTY OFFICERS THIRD AND SECOND CLASS

Classification: UNCLASSIFIED Retirement Points: 8

Assignments: 5 Distribution Code: A

Covers the knowledges required of Sailors of the U.S. Navy and Naval Reserve. Designed for individual study rather than formal classroom instruction, the course provides basic information in regard to Petty Officers Third and Second Class Naval Standards which are listed in the Manual of Navy Enlisted Manpower Personnel Classifications and Occupational Standards, NAVPERS 18068. This self-study course is organized into subject matter areas, each containing learning objectives to help you determine what you should learn along with text and illustrations to help you understand the information. The subject matter reflects day-to-day professional military knowledge.

Section 3

Naval Security Group Training Products Information

Introduction

Naval Security Group (NAVSECGRU) nonresident training products are developed by the Commanding Officer, Naval Education and Training Professional Development and Technology Center (NETPDTC), NAVSECGRU Division (hereafter referred to as Code N316), Pensacola, FL, according to requirements stated by the Commander, Naval Security Group Command. These materials include:

- Naval Security Group Training Courses (NSGTCs)**
- Naval Security Group Training Publications (NSGTPs)**

NSGTCs and NSGTPs are stocked and administered **ONLY** by Code N316 at NETPDTC. A listing of NSGTCs and NSGTPs follows. NSGTCs and NSGTPs are ordered from:

**Commanding Officer
NETPDTC Code N316
6490 Saufley Field Road
Pensacola FL 32509-5238**

Local NAVSECGRU Nonresident Training Libraries

To minimize the delays that may result when course materials are forwarded by the Defense Courier Service (DCS), or by registered mail, and to maximize service to the enrollee, NAVSECGRU nonresident training libraries are established at NAVSECGRU elements throughout the world. Where maintenance of a library is within the administrative capacity of an element, and that element wishes to establish a library, official correspondence to that effect should be forwarded to:

**Commanding Officer
NETPDTC Code N316
6490 Saufley Field Road
Pensacola FL 32509-5238**

(GENSER Message Address: NETPDTC PENSACOLA FL//N316//)

DSN: 922-1688 COMM: (850) 452-1688

E-MAIL: SFLY_CRYPTOLOGIC.PRODUCTS@navy.mil

Requests should indicate specific courses, publications, and quantity required. Upon receipt of the request, NAVSECGRU nonresident training materials will be provided including NSGTPs, NSGTCs, and answer keys (as needed).

EW Products

To order EW NAVEDTRA products, consult Part 1 of this catalog.

Security Clearances and Need-To-Know

Commanding officers are responsible for ensuring recipients of classified materials have the proper security clearance and the need-to-know.

Section 3

Naval Security Group Training Products Administration

TOPICS COVERED

[Who is Eligible](#)

[How Assignments are Graded](#)

[USNR Retirement Points](#)

[How to Enroll](#)

[Grades](#)

[How to Provide Student Feedback](#)

[Answer Sheets](#)

[Completion Letters](#)

[How to Get Assistance](#)

Who is eligible to enroll in NAVSECGRU training courses

1. Enrollment is limited to personnel who:
 - a. currently hold the requisite security clearance
 - b. are assigned to an activity having adequate facilities for the proper stowage and protection of the materials
 - c. have completed any prerequisite course(s)
 - d. normally are in one of the following categories:
 - Active duty personnel of any service assigned duty with the Naval Security Group.
 - Inactive duty personnel of any service assigned duty with the Naval Reserve Security Group and residing in the United States.
 - Marine Corps personnel assigned duty with a component of the Naval Security Group, a Marine Support Battalion, Radio Battalion, or a Special Security Communications team.
 - Civilian personnel employed by activities providing functional support to the Naval Security Group mission.
2. Exceptions may be made on a case-by-case basis.

How to enroll

- 1. Enlisted Personnel, Officers, and Civilians.**
 - Personnel at elements that maintain a NAVSECGRU nonresident training library should enroll at, and have assignments graded by, their local library.
 - Personnel at elements that DO NOT maintain a NAVSECGRU nonresident training library should enroll by letter (via the chain of command) with Code N316 at NETPDTC. (See mailing address on the first page.)
- 2. Enrollment requests to Code N316 NETPDTC should indicate the specific material required, student's need-to-know, stowage capabilities, and clearance certification (when appropriate).**

Answer sheets Use conventional answer sheets for NSGTCs.

How assignments are graded

- 1. Return completed assignments to the issuing authority (NAVSECGRU library or Code N316 NETPDTC) for grading.**
 - NAVSECGRU libraries will grade assignments and make a page 4 service record entry locally.
 - Code N316 NETPDTC will grade assignments and issue a completion letter. Completed assignments should be returned to Code N316 NETPDTC as soon as they are completed. **DO NOT HOLD COMPLETED ASSIGNMENTS. DO NOT RETURN TEXTS OR COURSE BOOKS to Code N316 NETPDTC.**
- 2. Return course materials to the issuing authority upon course completion**

Grades

- 1. A passing score is 3.2 or above.**
- 2. Students receiving a failing score on an assignment must resubmit a new answer sheet marked RESUBMIT.**
- 3. The maximum grade for a resubmitted assignment is 3.2.**
- 4. Scores on resubmitted assignments will be averaged into the overall score.**
- 5. To qualify for a completion letter, students must achieve an overall course grade of at least 3.2.**

Completion letters

1. Completion letters are issued to all personnel who complete a course administered by Code N316 NETPDTC.
2. Completion letters become a permanent part of an officer's service record and serve as the basis for service record entries for enlisted personnel.

USNR retirement points

1. Each course lists the recommended points for USNR retirement.
2. For detailed information about retirement points, refer to the effective edition of BUPERSINST 1001.39C.

How to provide student feedback

1. Comments and recommendations from students are highly valued. Informal notes or memorandums are encouraged.
2. Classified comments should be forwarded, via the student's command mail room, to NETPDTC, Code N316.

How to get assistance

1. Send administrative or technical queries to Code N316 at the address provided earlier.
 2. Assistance via telephone may be obtained from Code N316 by calling DSN 922-1688 or Commercial (850) 452-1688.
 3. Questions may also be addressed via the Internet to:
SFLY_CRYPTOLOGIC.PRODUCTS@navy.mil
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Section 3

NAVSECGRU Sources

Type Publication	Source
NAVEDTRA (TRAMAN or NRTC)	Catalog of Nonresident Training Courses, NAVEDTRA 12061 https://www.advancement.cnet.navy.mil/
NSGTP/NSGTC	NETPDTC Code N316, DSN 922-1688, Comm (850) 452-1688 Email: SFLY_CRYPTOLOGIC.PRODUCTS@navy.mil
BUPERSINST, NAVPERS, EDVRMAN	http://www.bupers.navy.mil/
National Education Training Group (NETG)	http://www.navylearning.com/
COI, DOI, USSID, EPL	NSANET: www.nsa/
OPNAVINST SECNAVINST	http://neds.nebt.daps.mil/Directives/dirindex.html
NTP	https://www1.nctc.navy.mil/
CMS	http://www.nctc.navy.mil/DCMSWEB/cmspubs.htm
NWP, APP	(CD-ROM), Email: fleetpubs@nwc.navy.mil DSN 948-6412/1168, Comm (401) 841-6412/1168
NCS courses	NSANET: http://www.ncs.s.nsa/Training/NCS/Catalog/index.html DSN: 685-3642, NSTS: 962-3642, Comm: (240) 373-3642
TDDX/TADIXS-B USER GUIDE (TBUG)	SIPRNET: http://www.nro.smil.mil/order.html DSN: 898-6730, Comm: 1-800-306-6990 ext 2327
DOD 5105.21-M-1 NAVSUPP to M-1	Order through channels: Defense Intelligence Agency, ATTN: SVD-2, Washington, DC 20340
Joint DODIIS	http://fas.org/irp/doddir/dod/jdcsiss-rev2.htm
NAVSECGRUINST	NSANET: http://www.hq.nsg.usn.nsa/claimnet/index.htm
ACP, Mk-36	SIPRNET: http://www.fiwc.navy.smil.mil/fiwc/training/pubs.html

FXP **SIPRNET:**
http://www.nwdc.navy.smil.mil/command/doctrine/nwel_pub_mgt/default.cfm
Email: <mailto:fleetpubs@nwc.navy.mil>

**Navy-Wide
OPTASK** **SIPRNET:**
<http://c2fashore/secondflt.navy.smil.mil/c2faflt.nsf>
<http://www.cusnc.navy.smil.mil/ops/rosetta/navywide/iw1.txt>
<http://www.cusnc.navy.smil.mil/ops/rosetta/navywide/iw2.txt>
<http://www.cusnc.navy.smil.mil/ops/rosetta/navywide/iw3.txt>

DOD 5200.33R <http://www.dtic.mil/whs/directives>

JP <http://www.dtic.mil/doctrine/index.htm>

AN/ULQ-16 **SIPRNET:** <http://www.fiwc.navy.smil.mil/fiwc/training/pubs.html>

AN/SLA-10B **SIPRNET:** <http://www.fiwc.navy.smil.mil/fiwc.training/pubs.html>
Email: caconne@hqcnsg.navy.mil

Section 3

NAVSECGRU Courses

Course Descriptions

The following NSGTC's and NSGTP's are currently stocked at the Naval Education and Training Professional Development and Technology Center, NAVSECGRU Division (Code N316), Pensacola, Florida.

Module 1-Naval Cryptology in National Security

NSGTC Number: 684-01-00-97

Assignments: 2 Points: 3

NSGTP Number : 683-01-00-97

This module provides Naval Security Group personnel with a general orientation of the cryptologic community with particular emphasis on the mission, function, and organization of the National Security Agency/Central Security Service and the Naval Security Group.
Special Instructions: Special Handling Required. **WARNING!** This course is classified **SECRET** and contains Sensitive Compartmented Information (SCI).

Module 2-Fleet Operations: Command And Control Warfare And Electronic Warfare Systems

NSGTC Number: 684-02-00-99

Assignments: 2 Points: 4

NSGTP Number : 683-02-00-99

This module provides information on composite warfare concept and organization; information operations (IO); C2W planning and execution; shore support and electronic support dissemination; and submarine, airborne, and surface platform C4I capabilities.
Special Instructions: **WARNING!** This course is classified **SECRET NOFORN**.

Module 3-Defense Message System

NSGTC Number: 684-03-00-02

Assignments: 2 Points: 2

Note: The text for this course is *Defense Message System User's Manual*, NTP-21(A) dated 17 August 2000. NTP 21(A) is available at <https://www1.nctc.navy.mil>.
Questions in this course cover the global DMS architecture, DMS message types and components, and DMS message handling policies and procedures.

Module 4-Cryptologic Operators Manual For ELINT Operations

NSGTC Number: 684-04-00-00

Assignments: 2 Points: 4

NSGTP Number : 683-04-00-00

This module provides the student with information on radars, radar systems, missile guidance and threat emitters, and ELINT collection and reporting.

Special Instructions: **WARNING!** This course is classified **SECRET NOFORN**.

Module 5-Communications Signals Collection Operator

NSGTC Number: 684-05-00-02

Assignments: 2 Points: 3

NSGTP Number : 683-05-00-02

This module provides information concerning the characteristics of satellite communications, digital communications, communications terms and techniques, satellite collection operations, regional signals intelligence operations centers, and intelligence collection and reporting procedures.

Special Instructions: Special Handling Required. **WARNING!** This course is classified **SECRET** and contains Sensitive Compartmented Information (SCI).

Module 6-Defense Message System Local Operations And Network Management Policies And Procedures

NSGTC Number: 684-06-00-02

Assignments: 1 Points: 1

Note: The text for this course is *Defense Message System Local Operations and Network Management Policies and Procedures*, NTP 22, dated 7 September 2000. NTP 22 is available at <https://www1.nctc.navy.mil>.

Questions in this course cover DMS architecture for LNOSC personnel, interim operational procedures, trouble tickets, message tracing procedures, and firewalls.

Module 11-SCI Security And Emergency Destruction

NSGTC Number: 684-11-00-01

Assignments: 3 Points: 5

NSGTP Number : 683-11-00-01

This module provides information from many sources on the common requirements associated with security and emergency destruction of classified material encountered within the Naval Security Group. The publication contains information on access and dissemination; Security Education Program; security markings; transmitting, receipting, and accounting for classified material; security violations and compromises; and emergency destruction.

Special Instructions: **WARNING!** This course is classified UNCLASSIFIED//FOR OFFICIAL USE ONLY.

Module 15-SIGINT Reporting

NSGTC Number: 684-15-00-98

Assignments: 1 Points: 2

NSGTP Number : 683-15-00-98

This module discusses and gives examples of specific SIGINT reports and formats.

Special Instructions: Special Handling Required. **WARNING! This course is classified **SECRET** and contains Sensitive Compartmented Information (SCI).**

Module 16-Radio Wave Modulation & Signal Multiplexing

NSGTC Number: 684-16-00-00

Assignments: 2 Points: 3

NSGTP Number : 683-16-00-00

This module familiarizes the student with the basic concepts of sinewave characteristics, types of modulation, and keying and signal multiplexing.

Module 17-Course For USSID 140

NSGTC Number: 684-17-00-01

Assignments: 1 Points: 1

Note: The text for this course is USSID 140.

Special Instructions: **WARNING! This course is classified **CONFIDENTIAL**.**

Module 18-Course For USSID 240

NSGTC Number: 684-18-00-01

Assignments: 1 Points: 1

Note: The text for this course is USSID 240.

Special Instructions: **WARNING! This course is classified **SECRET**.**

Module 20-Technical Control

NSGTC Number: 684-20-00-94

Assignments: 2 Points: 4

NSGTP Number : 683-20-00-94

This module provides information on the scope and responsibilities of the technical controller; the mission, policy, and various organizations of naval communications; basic telecommunications theory; individual technical control subsystems, power requirements, and safety; basic principles and common configurations of communications equipments, antennas, and terminal equipments; types and theory of radio wave propagation; satellite communications; basic test equipments; system diagnosis and quality assurance; and technical control administration including reports and required logs.

Special Instructions: **WARNING! This course is classified **CONFIDENTIAL**.**

Module 22-Fleet Operations - Orientation

NSGTC Number: 684-22-00-97

Assignments: 2 Points: 3

NSGTP Number : 683-22-00-97

This module introduces the student to many aspects of U.S. fleet operations. It includes general information on the Navy's strategic concept, their national command structure, the missions of naval ships and aircraft, combat systems, command and control warfare, and afloat training
Special Instructions: **WARNING!** This course is classified **SECRET**.

Module 28-Shipboard Communications

NSGTC Number: 684-28-00-01

Assignments: 2 Points: 3

NSGTP Number : 683-28-00-01

This module contains an overall introduction to shipboard and satellite communications; security and administration; cryptographic operations; communications systems and equipment; and messages and files.

Special Instructions: **WARNING!** This course is classified **CONFIDENTIAL**.

Module 29-CTM Core Elements

NSGTC Number: 684-29-00-98

Assignments: 2 Points: 3

NSGTP Number : 683-28-00-01

This module contains an overall introduction to shipboard and satellite communications; security and administration; cryptographic operations; communications systems and equipment; and messages and files.

Special Instructions: **WARNING!** This course is classified **CONFIDENTIAL**.

Module 30-Department Of The Navy Correspondence Manual Course

NSGTC Number: 684-30-00-97

Assignments: 3 Points: 5

Note: The text for this course is *Department of the Navy Correspondence Manual, SECNAVINST 5216.5D*.

Questions in this course cover information on the administrative and managerial responsibilities of the DON correspondence program.

Module 32-Evaluation/Fitness Report

NSGTC Number: 684-32-00-97

Assignments: 3 Points: 5

Note: The text for this course is *Navy Performance Evaluation and Counseling System, BUPERSINST 1610.10*.

Questions in this course cover information on the procedures and requirements for preparing, recording, and submitting evaluation and fitness reports on naval personnel.

Module 37-NAVSECGRU Awards Manual Course

NSGTC Number: 684-37-00-98

Assignments: 2 Points: 3

Note: The text for this course is *Naval Security Group Awards Manual*, NSGINST 1650.9D. Questions in this course cover information on the various types of NAVSECGRU awards and their submission criteria.

Module 38-Naval Military Personnel Manual Course

NSGTC Number: 684-38-00-97

Assignments: 2 Points: 3

Note: The text for this course is *Naval Military Personnel Manual*, NAVPERS 15560C. Questions in this course cover information on various Navy-related personnel programs of interest to CT personnel as well as their associated requirements.

Module 39-Navsecgru Logistics Management Manual Course

NSGTC Number: 684-39-00-98

Assignments: 2 Points: 3

Note: The text for this course is *NAVSECGRU Logistics Management Manual*, NSGINST 4000.1D. Questions in this course cover information on NAVSECGRU logistics including material management, equipment installation, 3-M, CASREP reporting, supply, ERRTs, test equipment, training, safety, facilities management, and NMMS.

Electronics Warfare Technician 1 & C

NAVEDTRA 14095

Edition 1993

Assignments: 3 Points: 5

NSGTP Number :

Note: This is NOT a new or revised course. NAVEDTRA Course Number changed ONLY to facilitate central enrollment.

DESCRIPTION: Provides information on correspondence documents and publications; EW training and readiness; EW assets and capabilities; Navy EW organization and missions; emission control; EW operations planning and coordination; and ECM/ECCM employment.

Special Information: WARNING!

These products are classified **SECRET / NOFORN**.

Electronics Warfare Technician 3 & 2

NAVEDTRA 14096

Edition 1992

Assignments: 5 Points: 9

NSGTP Number :

Note: This is NOT a new or revised course. NAVEDTRA Course Number changed ONLY to facilitate central enrollment.

DESCRIPTION: Provides detailed information on Introduction to electronic warfare; CIC and EW organization; analysis and identification; communications and reporting; logs, status boards, and plots; shipboard electronic warfare support measures (ESM) equipment; shipboard electronic countermeasures (ECM) equipment; auxiliary electronic warfare equipments; security and publications; maintenance.

Special Information: WARNING!

These products are classified SECRET /WNINTEL/ NOFORN.
