

Naval Education and  
Training Command

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Publication



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## CATALOG OF NONRESIDENT TRAINING COURSES



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NOTICE!!!!  
BEGINNING IN 1999,  
THIS CATALOG  
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FOR INFORMATION.

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## GENERAL INFORMATION

### FOREWORD

This *Catalog of Nonresident Training Courses, January 1999 Edition* NAVEDTRA 12061, replaces the *Catalog of Nonresident Training Courses, March 1998 Edition*, NAVEDTRA 12061.

This catalog is designed with you, the user, in mind. It describes professional military and career development courses and specialized courses, explains eligibility requirements and ordering instructions, and provides administering data and general information about nonresident training.

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This catalog is no longer stocked in the supply system. An electronic version of this catalog is posted at the following locations:

- Internet at: <http://www.cnet.navy.mil/netpdtc/nac/neas.htm>
- Navy Advancement Center Bulletin Board at: DSN: 922-1394/1820  
or COM: (850) 452-1394/1820
- Streamlined Automated Logistics Transmission System (SALTS)  
(For information about SALTS, call DSN: 442-1112 or  
COM: (215) 697-1112)

## GENERAL INFORMATION

### ABBREVIATIONS AND TERMS

#### ABBREVIATIONS

#### TERMS

AUTODIN	Automatic Digital Network
CNET	Chief of Naval Education and Training
COMMRI	Communication Routing Indicator
DAAS	Defense Automatic Addressing System
DAASO	Defense Automatic Addressing System Office
DSN	Defense Switched Network
ESO	Educational Services Officer
IRR	Individual Ready Reserve
MILSTRIP	Military Standard Requisitioning and Issue Procedures
NAVICP	Naval Inventory Control Point
NAVSTDs	Naval Standards
NETPDTC	Naval Education and Training Professional Development and Technology Center (formerly NETPMSA)
NRTC	Nonresident Training Course
OCCSTDs	Occupational Standards
PARs	Personnel Advancement Requirements
PQS	Personnel Qualification Standards
QR	Quantity Restriction. QR applies to the number of copies your command may request on each order. You may order less than the number listed but you can not order more unless you follow the directions on how to exceed quantity restrictions found in Part 1 of this catalog (see Table of Contents).
SALTS	Streamlined Automated Logistics Transmission System
SN	Stock Number
SP	Special Publication
TRAMAN	Training Manual
UIC	Unit Identification Code

## GENERAL INFORMATION

### GETTING HELP

WHAT YOU NEED HELP WITH	HOW TO CONTACT
Obtaining products listed in PART 1	See Page 1-1 "Ordering Instructions for Items Listed in Part 1"
Obtaining products listed in PARTs 2-4	See Page 1 of each applicable part.
Navy Advancement Exams Exam Development Exam Discrepancies, Administration, and Shipping	DSN: 922-1815, COM: (850) 452-1815 DSN: 922-1252, COM: (850) 452-1252
Personnel Qualification Standards (PQS)	DSN: 922-1035/1708 COM: (850) 452-1035/1708
NETPDTC Bulletin Board  Bulletin Board Manager	DSN: 922-1394/1820 COM: (850) 452-1394/1820 DSN: 922-1402, COM: (850) 452-1402
NETPDTC Individual Ready Reserve (IRR) Correspondence Course Center (enrollment, grades, points, etc)  <b>NOTE:</b> Some items in this catalog are not offered to IRRs, Sea Cadets, or NJROTC personnel. Contact the center for details.	DSN: 922-1511/1859 COM: (850) 452-1511/1859 e-mail: distance.training@smtp.cnet.navy.mil
Products for ratings: AW, ET(SS), EW, FC, FT, IS, MM(SS), MN, MT, OS, RM, STG, STS, TM and Nuclear ratings	DSN: 922-1335, COM: (850) 452-1335 e-mail: n311.products@smtp.cnet.navy.mil
Products for ratings: AK, DK, DM, DN, DT, HM, HN, JO, LI, LN, MA, MS, MU, NC, PC, PN, RP, SH, SK, YN	DSN: 922-1648, COM: (850) 452-1648 e-mail: n313.products@smtp.cnet.navy.mil
Products for ratings: BM, BU, CE, CM, CN, DC, EA, EO, EM, EN, FN, GS, HT, IC, IM, MM(SW), MR, OM, PH, QM, SM, SN, SW, UT	DSN: 922-1795, COM: (850) 452-1795 e-mail: n314.products@smtp.cnet.navy.mil
Products for ratings: AB, AC, AD, AE, AG, AM, AN, AO, AS, AT, AZ, ET(SW), GM, PR	DSN: 922-1777, COM: (850) 452-1777 e-mail: n315.products@smtp.cnet.navy.mil
Products for ratings: CTA, CTI, CTM, CTO, CTR, CTT	See Part 2
General information about this catalog, or about the items listed in this catalog.	DSN: 922-1328, COM: (850) 452-1328 e-mail: navy.advancement@smtp.cnet.navy.mil

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## **GENERAL INFORMATION**

### **NONRESIDENT TRAINING**

The Chief of Naval Education and Training (CNET) is responsible for providing nonresident training in support of Occupational Standards (OCCSTDs), and Naval Standards (NAVSTDs).

Nonresident training is a self-study package designed to help a student acquire specific knowledge. Normally, a nonresident training package consists of a nonresident training course (NRTC) and a text.

### **Nonresident Training Course (NRTC)**

An NRTC may consist of exercises, lessons, or examinations designed to assist the student in acquiring the knowledge contained in an associated text.

### **Texts Associated with NRTCs**

The text for an NRTC may be any of the following:

1. A training manual (TRAMAN) written specifically to be used as the text for an NRTC.
2. An existing manual, directive, or instruction.
3. A commercial textbook.

### **Errata**

Errata are often used to correct minor errors or delete obsolete information in an NRTC or text. Errata may also be used to provide instructions to the student. Normally, errata are automatically shipped with an NRTC or text.

### **Special Publications (SP)**

Special publications are manuals or catalogs that provide information of general benefit to the performance and career development of Navy personnel. SPs DO NOT have an accompanying NRTC.

### **ESTABLISHING OF NONRESIDENT TRAINING**

Anyone may propose a new nonresident training package. Proposals should be forwarded to CNET (ETS) via the originator's chain of command.

### **ADMINISTERING NONRESIDENT TRAINING**

Servicing Educational Services Officers (ESO) will administer nonresident training to both officer and enlisted personnel, active duty and Reserve. This does not apply to Individual Ready Reserve (IRR), Sea Cadet, or NJROTC personnel who will be administered by the Naval Education and Training Professional Development and Technology Center (NETPDTC).

**NOTE:** Some items in this catalog are not offered to IRRs, Sea Cadets, or NJROTC personnel. Consult the Correspondence Course Center Catalog for selection of products available.

## GENERAL INFORMATION

### NONRESIDENT TRAINING AVAILABLE FROM OTHER SERVICES

Courses of potential interest to members of all military services are provided under the sponsorship of the Department of Defense. Available to all military personnel, through an interservice agreement, are courses offered by the Air Force, Army, Coast Guard and Marine Corps. Information about nonresident training available from other services is given in the table below. The catalog of a specific service should be checked before applying for enrollment for special procedures and/or eligibility requirements. Personnel interested in subjects given by another service should, THROUGH THEIR SERVICING ESO, correspond with the appropriate agency for up-to-date information.

ORGANIZATION	CATALOG	ADDRESS
Air Force	ECI Catalog (Request catalog on letterhead)	ECT/EDOR Maxwell AFB (Gunter Annex), AL 36118-5643  e-mail: <a href="http://www.au.af.mil/au/oas/eci/eci/cattoc.htm">http://www.au.af.mil/au/oas/eci/eci/cattoc.htm</a>
Army	DA Pamphlet 351-20 (Order by DD-1149)	USA AG Publication Center 2800 Eastern Blvd. Baltimore, MD 21220  e-mail: <a href="http://atscweb.atssc-army.org/dev/accp/aipd.htm">http://atscweb.atssc-army.org/dev/accp/aipd.htm</a>
Coast Guard	List of Correspondence Courses, E46003 (Request catalog on letterhead)	Commanding Officer U.S. Coast Guard Institute P.O. Substation 18 Oklahoma, OK 73169-6999  e-mail: <a href="http://www.uscg.mil/dotinfo/uscg/hq/cgi/ss/courses/codes.htm">http://www.uscg.mil/dotinfo/uscg/hq/cgi/ss/courses/codes.htm</a>
Marine Corps	MCI Catalog (Request catalog on letterhead)	Director Marine Corps Institute Arlington, VA 22222  e-mail: <a href="http://www.mci.hqi.usmc.mil/">http://www.mci.hqi.usmc.mil/</a>

## GENERAL INFORMATION

This table shows contact points to obtain information about, or order courses, from the centers that were previously listed in PARTs 3-7.

CENTER/ADDRESS	INTERNET/TELEPHONE
<b>Naval School of Health Sciences</b> Commanding Officer Naval School of Health Sciences Portsmouth 1001 Holcomb Road Portsmouth, VA 23708-5200	<a href="http://www-nshspts.med.navy.mil">http://www-nshspts.med.navy.mil</a>  COM (757) 953-7627
<b>Naval Dental School</b> Commanding Officer National Naval Dental Center Code NDS11A 8901 Wisconsin Avenue Bethesda, MD 20889-5062	<a href="http://nnd40.med.navy.mil/ndsbethesda/index.htm">http://nnd40.med.navy.mil/ndsbethesda/index.htm</a>  COM (301) 295-0205 DSN 295-0205
<b>Shipboard Training Enhancement Program (STEP)</b> Commanding Officer Naval Education and Training Professional Development and Technology Center ATTN: N714D 6490 Saufley Field Road Pensacola, FL 32509-5239	<a href="http://www.cnet.navy.mil/netpdtc/step/stepcat.htm">http://www.cnet.navy.mil/netpdtc/step/stepcat.htm</a>  COM (850) 452-1640 DSN 922-1640
<b>Naval War College Continuing Education</b> President (Code 1G) Naval War College College of Continuing Education 686 Cushing Road Newport, RI 02841-1207	<a href="http://www.usnwc.edu/nwc/cce/index.htm">http://www.usnwc.edu/nwc/cce/index.htm</a>  COM (401) 841-6528 DSN 948-6528
<b>Naval Meteorology and Oceanography Command</b> Commanding Officer Naval Oceanographic Office Code N72 1002 Balch Blvd Stennis Space Center, MS 39522-5001	<a href="http://www.navo.navy.mil">http://www.navo.navy.mil</a>  COM (299) 688-4558 DSN 485-4558

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## GENERAL INFORMATION

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# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### ORDERING INSTRUCTIONS FOR ITEMS LISTED IN PART 1

#### WHO CAN ORDER ITEMS LISTED IN PART 1

ANY U.S. NAVY OR U.S. MARINE CORPS ACTIVITY WITH A VALID DODAAD CODE AND ADDRESS CAN ORDER USING MILSTRIP FORMAT.

PRIVATE AND COMMERCIAL ACTIVITIES AND INDIVIDUALS MUST ORDER UNDER THE NAVICP-PHILA CASH SALE PROCEDURES.

CONTACT NAVICP-PHILADELPHIA, CODE 033343, 700 ROBBINS AVENUE, PHILADELPHIA, PA 19111-5098; PHONE (215) 697-2626 FOR ORDERING INFORMATION.

#### HOW TO ORDER

##### First:

Find the product by thumbing through the pages of PART 1 (products are listed alphabetical by title), or by referring to the List of Products by NAVEDTRA Number or List of Products by Title/Subject. Note the Navy Stock Number (SN) and any Per Order Quantity Restriction (QR) for each product.

##### Then:

Order in MILSTRIP format using Navy Stock Number (SN) from Naval Inventory Control Point Philadelphia (NAVICP-PHILA) using Routing Identifier Code (RIC) "NFZ". (REFER TO NAVSUP PUBLICATION 409 FOR INSTRUCTIONS ON USING MILSTRIP. ALSO, SEE PAGES 1-2 AND 1-3 FOR EXAMPLES.)

#### 2. Transmission Methods:

- a. Via AUTODIN to the Defense Automatic Addressing System Office (DAASO) using communication routing indicator (COMMRI) RUC1ZZA.
- b. Via message format to the Defense Automatic Addressing System (DAAS), Dayton OH using COMMRI RUEOZNA.
- c. Via SALTS. **MILSTRIP must be in ASCII format.**
- d. Via NAVICP-PHILA Bulletin Board: **MILSTRIP must be in ASCII format.**

- 1) Requisition submission and supply news: DSN 442-2626/1427,  
COM (215) 697-2626/1427
- 2) Requisition status (last 45 days): DSN 442-2626/1427,  
COM (215) 697-2626/1427.

- e. Via Internet: <http://www.n11.navsup.navy.mil>
- f. Via diskette or floppy disk using an IBM compatible MILSTRIP generation program which is available from NAVICP-PHILA.

#### 3. For assistance at NAVICP-PHILA:

- a. With AUTODIN: DSN 442-5003, COM (215) 697-5003.
- b. HOT LINE (Hrs 0700-1600 EST): DSN 442-2626, COM (215) 697-2626.
- c. SALTS, Bulletin Board, or IBM compatible program: DSN 442-0186, COM (215) 697-0186.
- d. Cash Sales: DSN 442-3217, COM (215) 697-3217.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### ORDERING VIA MILSTRIP

At most commands, the ESO is the focal point for ordering, receiving, grading, and recording the scores of nonresident training courses. Here's basically how the "system" should work: After courses are developed (by chief petty officers in the rating), most are sent to commercial printers (via the Defense Automated Printing Service and the Government Printing Office) for printing. After printing, the courses are shipped to the Navy Inventory Control Point (NAVICP) warehouse at Mechanicsburg, PA, where they are stocked awaiting ESO's requisitions. Courses are generally ordered by using MILSTRIP requisitions. (Page 1-1 of outlines ordering methods.)

### SOME TIPS FOR THE ESO

1. Anticipate your command's needs. Place orders as far in advance as possible.
2. Make sure your MILSTRIP requisition is accurate. Double check all fields. Remember: GARBAGE IN - GARBAGE OUT! Use the MILSTRIP Handbook, and refer to the samples on the following page.
3. Use the fastest and most direct means available to transmit MILSTRIP requisitions. (Refer to the transmission methods listed on Page 1-1.)
4. Have a feel for about how long it should take an order to arrive. The more distant a command from the warehouse, the longer it takes for the order to arrive; large orders take longer than small orders; deployed commands should expect some delay in receiving orders. Don't forget about the "**Required Delivery Date**" field in positions 62-64 of the MILSTRIP.
5. Track all MILSTRIP requisitions to make sure each order is filled. Commands with a successful track record in obtaining TRAMANS on a timely basis employ a sound requisition and tracking system. (Use the HOTLINE number provided on Page 1-1.)

### SAMPLE MILSTRIP AND EXPLANATIONS

NAVSUP Publication 409 (MILSTRIP/MILSTRAP Desk Guide) provides guidance in preparing electronic MILISTRIP requisition. This desk guide may be ordered using stock number 0530-LP-190-6200.

The sample on the next page provides examples and explanations to assist you in completing MILSTRIP requisitions.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

Sample MILSTRIP:

A0DNFZS0640LP6104500 EA00001N683227204ML25RYN8323D OIYY915

A 0 D N F Z S 0 6 4 0 L P 6 1 0 4 5 0 0 E A 0 0 0 0 1 N 6 8 3 2 2 7 2 0 4 M L 2 5 R Y N 8 3 2 3 D O I Y Y 9 1 5  
A B C D E F G H I J L M N

POSITION	DESCRIPTION
1-3 (A)	<b>DOCUMENT IDENTIFIER:</b> A 3-element code which indicates the purpose and use of the document, such as requisition, follow-up, or status. (A0D, A0E, A25, etc.)
4-6 (B)	<b>ROUTING IDENTIFIER CODE:</b> A 3-element code used to represent the address of the intended recipient of the requisition. (NFZ, SGA, N25, etc.)
7 (C)	<b>MEDIA AND STATUS CODE:</b> A 1-element code that indicates if the sender requires that a status of the requisition to be furnished, and the means of transmission for the status reply.
8-22 (D)	<b>STOCK NUMBER:</b> A 15-element code that identifies the item being requisition. (0502LP2124400, 0503LP2174600, etc.) Leave unused positions <b>BLANK</b> .
23-24 (E)	<b>UNIT OF ISSUE:</b> A 2-element code that indicates the types of units under which the material is issued. (EA=each, PD=pad, etc.)
25-29 (F)	<b>QUANTITY:</b> 5 digits that represent the number of units being requested. Numeric zeros precede significant digits. (00001, 00050, 00100, etc.)
30-43 (G)	<p><b>DOCUMENT NUMBER:</b> A 14-element field that represents the following 4 basic elements:</p> <p>30 = Service Code (N=Navy, A=Army, etc.)            31-35 = UIC of requesting command            36-39 = Julian Date            40-43 = Serial Number (Not duplicated on the same day)</p> <p>Example: N683227204ML25</p>
44 (H)	<b>DEMAND/SUFFIX CODE:</b> A single letter representing the demand. (R=recurring demand, N=nonrecurring demand, etc.)
45-50 (I)	<b>SUPPLEMENTARY ADDRESS:</b> A 6-element field used to identify the activity (UIC) to receive the material - if other than the requesting activity. If not required, enter a "Y" in position 45 to indicate data in 46-50 is not significant to the system but is to be perpetuated in document processing (internal command address).
51 (J)	<b>SIGNAL CODE:</b> A single letter that signifies who the material is to be shipped to. (Enter a "D" if material is to be shipped to requisitioner. Enter an "M" if material is to be shipped to Supplementary Address.)
52-53 (K)	<b>FUND CODE:</b> A 2-element for the requisitioner to indicate the funds to be charged. <b>(May be left BLANK.)</b>
54-56 (L)	<p><b>DISTRIBUTION FIELD:</b> A 3-element field that represents the following:</p> <p>54 = Designates activities eligible to receive additional status. <b>(May be left BLANK)</b>            55-56 = Account Code/Cognizance Symbol</p>
57-59 (M)	<b>PROJECT CODES:</b> A 3-element field
60-61 (N)	<b>PRIORITY:</b> A 2-digit field that indicates the priority of the requisition.
62-64 (O)	<b>REQUIRED DELIVERY DATE:</b> A 3-digit field that expresses a required delivery date (Julian Date). <b>(May be left BLANK.)</b>
65-66 (P)	<b>ADVICE/STATUS CODE:</b> A 2-element field that may be entered by the requisitioner to provided coded instructions to the supply source. <b>(May be left BLANK.)</b>

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

THE FOLLOWING INFORMATION WAS OBTAINED FROM:

<http://www.navicp.navy.mil/03/03334/custsupt.htm>

Last update: 29 June 1998

Send comments to: [webmaster@navicp.navy.mil](mailto:webmaster@navicp.navy.mil)

### Customer Support

NAVICP provides inventory management and cataloging support for COG 0I and 1I material (Navy publications, directives and forms). Customer Hotline services are available for requisition status and stock availability, off line emergency MILSTRIP requisitions, researching publication numbers, and sources of supply. Additionally, there are two electronic Bulletin Boards to receive digitized text files of MILSTRIP requisitions from customers without access to either DAAS or SALTS, and to provide current requisition status.

### DID YOU KNOW???

If you have not received status on your requisition within 5 workdays after it was submitted, we probably never received it. Check with your Supply Office before resubmitting your requisition. This is where we send all on-line status.

You should receive shipment status within 15 calendar days after you received "BA" status. If this does not happen, please contact our Customer Service at commercial (215) 697-2626 or DSN 442-2626 as soon as possible so we can investigate the reason why there was a problem with your requisition. It is important that you notify us of the problem immediately because there is a limited time frame to research transactions from DAAS and NUBS.

### HOTLINE HOURS: 0730 - 1700 WEEKDAYS ONLY.

**Points of Contact:** (215) 697- Extension OR DSN 442 - Extension

Status/Availability/Research/HOT LINE	2626
Bulletin Boards:	
Incoming Requisitions	0186
Status	1427
Access Assistance	1488
Stock Fund Subscription Service:	
Ordering and Stock Number	
Information	1-800-358-8659
Data Problems	1451 or 6788
FEDLOG Technical Support (24 hours)	1-800-351-4381

This International number is physically manned from 0700 - 1700 Mountain Standard Time, Monday through Friday (except holidays), with a voice mail system in place for off hours.

Fax: 970-226-0734 (available 24 hours a day, 7 days a week)

E-Mail: [fedlog@optimus-corp.com](mailto:fedlog@optimus-corp.com) Website: <http://www.fedlog.com>

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### INFORMATION ABOUT ITEMS LISTED IN PART 1

<p>HOW TO EXCEED PER ORDER QUANTITY RESTRICTIONS</p> <p><b>NOTE: QUANTITY RESTRICTIONS FOR ANSWER KEYS MAY NOT BE EXCEEDED.</b></p>	<p>1. Send requests in MILSTRIP format on <b>COMPUTER DISK</b> or via <b>ELECTRONIC MEANS</b> to:</p> <p style="padding-left: 40px;">Commanding Officer NETPDTC (N319) 6490 Saufley Field Road Pensacola Florida 32509-5237</p> <p style="padding-left: 40px;">e-mail: navy.advancement@smtp.cnet.navy.mil SALTS: NETPDTC PMA</p> <p>2. Requests must include a separate letter on <b>command letterhead signed by the commanding officer or "By direction"</b> that fully justifies the excess order. <b>Include a point-of-contact with a phone number.</b></p>
<p>SPECIAL INSTRUCTIONS FOR ORDERING ANSWER KEYS</p>	<p>1. Answer keys may be ordered <b>ONLY</b> by a command Educational Services Officer (ESO).</p> <p>2. Answer keys may be ordered <b>ONLY</b> by U.S. Navy commands with a valid Unit Identification Code (UIC).</p> <p>3. ESOs may order <b>ONLY</b> one (1) answer key for each course administered at that command.</p> <p>4. Answer keys are obtained using the same ordering procedures for TRAMANS and NRTCs. <b>ANSWER KEYS ARE NOT ORDERED FROM NETPDTC.</b></p>
<p>INFORMATION ABOUT CLASSIFIED COURSES</p>	<p>1. Classified courses are released <b>ONLY</b> to the custody of the student's commanding officer. Reserve units commanded by inactive reserve officers <b>DO NOT</b> qualify for custody.</p> <p>2. Before ordering a classified course, ESOs should ensure:</p> <ul style="list-style-type: none"> <li>a. The student has a legitimate need for the course and the appropriate security clearance.</li> <li>b. Safeguards are available to provide required protection for the course.</li> </ul> <p>3. Classified courses must be stowed, controlled and destroyed in the same manner as other classified material.</p>

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

INFORMATION ABOUT ITEMS LISTED IN PART 1	
HOW TO CONTROL ANSWER KEYS	<ol style="list-style-type: none"> <li>1. Answer keys must be controlled and maintained by a commissioned officer or an ESO at all times.</li> <li>2. Original answer keys and locally duplicated copies of answer keys require the same security as advancement examinations. (BUPERSINST 1430.16)</li> <li>3. Report loss of answer keys in the same manner as reporting a lost advancement examination.</li> <li>4. Destroy answer keys in accordance with local instructions for destroying classified material.</li> <li>5. The following practices are authorized:               <ol style="list-style-type: none"> <li>a. Sub-custody of answer keys to division officers.</li> <li>b. Grading by enlisted personnel under the direct and continuous supervision of a commissioned officer or ESO.</li> </ol> </li> </ol>
STUDENTS MAY	<ol style="list-style-type: none"> <li>1. Refer freely to texts and reference materials.</li> <li>2. Seek advice and instructions from others, but answers must be their own.</li> </ol>
STUDENTS MAY NOT	Refer to or copy the solutions of others, or give completed solutions to anyone else taking the same course.
INFORMATION ABOUT ANSWER SHEETS	<p>One answer sheet is provided in the back of each NRTC. This sheet may be duplicated for local use and are also available at the NETPDTTC WEBSITE:</p> <p><a href="http://www.cnet.navy.mil/netpdtc/nac/neas.htm">http://www.cnet.navy.mil/netpdtc/nac/neas.htm</a></p>
GRADING AND REPORTING	<ol style="list-style-type: none"> <li>1. Order Grading Table, NAVEDTRA 1430/4, from NAVICP by SN 0502-LP-218-2100. The grading table may be reproduced locally and are also available on the NETPDTTC website: <a href="http://www.cnet.navy.mil/netpdtc/nac/neas.htm">http://www.cnet.navy.mil/netpdtc/nac/neas.htm</a></li> <li>2. ESOs record and report grades as follows:               <ol style="list-style-type: none"> <li>a. Officer - Page 1070/613</li> <li>b. Enlisted - Page 1070/604</li> </ol> </li> <li>3. Report grades for Naval Reservists via RSTARS</li> <li>4. Do NOT return graded answer sheets to the student. Graded answer sheets are destroyed by the ESO by using accepted destruction practices.</li> <li>5. Inform student which question was missed and where to find the correct answer.</li> </ol>

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### INFORMATION ABOUT ITEMS LISTED IN PART 1

GRADES	<ol style="list-style-type: none"><li>1. The passing score for all assignments and courses is 3.2.</li><li>2. Students are required to rework failed assignments. The maximum score on resubmissions is 3.2.</li></ol>
RETIREMENT POINTS (Retirement points are listed for each NRTC in Part 1 of this catalog.)	<ol style="list-style-type: none"><li>1. Retirement Points are awarded ONLY to certain Naval Reserve Personnel not on active duty.</li><li>2. Refer to BUPERSINST 1001.39 for instructions pertaining to the awarding of retirement points.</li></ol>

# PART 1 GENERAL NONRESIDENT TRAINING COURSES

## PERSONNEL ADVANCEMENT REQUIREMENTS (PARs)

PARs are available electronically at the following sites:

- Internet at: <http://www.cnet.navy.mil/netpdtc/nac/neas.htm>
- Navy Advancement Center Bulletin Board at: DSN: 922-1394/1820  
or COM: (850) 452-1394/1820
- Streamlined Automated Logistics Transmission System (SALTS)  
(For information about SALTS, call DSN: 442-1112 or  
COM: (215) 697-1112)

### PERSONNEL ADVANCEMENT REQUIREMENTS (PARs)

Listed below are stock numbers (SN) for each rating's PARs. Order PARs in the same manner as TRAMANS or NRTC's. (See page 1-1 for ordering instructions.) Local duplication of these PARs is authorized and encouraged. **QUANTITY RESTRICTION IS 3.**

RATING	DATE	STOCK NUMBER	NAVEDTRA
AEROGRAPHER'S MATE	JUL 96	0505-LP-001-9820	71650
AIR TRAFFIC CONTROLLER	JAN 96	0505-LP-001-9160	71225
AIRCREW SURVIVAL EQUIPMENTMAN	JUL 96	0505-LP-001-9080	71190
AVIATION BOATSWAIN'S MATE (AIRCRAFT HANDLING)	JUL 96	0505-LP-001-9140	71202
AVIATION BOATSWAIN'S MATE (FUELS)	JAN 96	0505-LP-001-9130	71201
AVIATION BOATSWAIN'S MATE (LAUNCHING & RECOVERY EQUIPMENT)	JAN 96	0505-LP-001-9090	71200
AVIATION ELECTRICIAN'S MATE	MAY 97	0505-LP-012-9120	71155-A
AVIATION ELECTRONICS TECHNICIAN (INTERMEDIATE MAINTENANCE)	JAN 96	0505-LP-001-9050	71175
AVIATION ELECTRONICS TECHNICIAN (ORGANIZATIONAL MAINTENANCE)	JAN 96	0505-LP-001-9060	71176
AVIATION MACHINIST'S MATE	JUL 96	0505-LP-001-8940	71150
AVIATION MAINTENANCE ADMINISTRATIONMAN	JAN 96	0505-LP-001-9070	71185
AVIATION ORDNANCEMAN	JAN 96	0505-LP-001-8990	71165

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

RATING	DATE	STOCK NUMBER	NAVEDTRA
AVIATION STOREKEEPER	JAN 96	0505-LP-001-9570	71475
AVIATION STRUCTURAL MECHANIC (HYDRAULICS)	JUL 96	0505-LP-001-8970	71161
AVIATION STRUCTURAL MECHANIC (SAFETY EQUIPMENT)	JUL 96	0505-LP-001-8960	71160
AVIATION STRUCTURAL MECHANIC (STRUCTURES)	JUL 96	0505-LP-001-8980	71162
AVIATION SUPPORT EQUIPMENT TECHNICIAN	JAN 96	0505-LP-001-9150	71205
AVIATION WARFARE SYSTEMS OPERATOR (ACOUSTIC)	JUL 96	0505-LP-001-9830	71675
AVIATION WARFARE SYSTEMS OPERATOR (HELICOPTER)	JUL 96	0505-LP-001-9840	71676
AVIATION WARFARE SYSTEMS OPERATOR (NON-ACOUSTIC)	JUL 96	0505-LP-001-9850	71677
BOATSWAIN'S MATE	JAN 96	0505-LP-001-8760	71000
BUILDER	JAN 96	0505-LP-001-9370	71350
CONSTRUCTION ELECTRICIAN	JAN 96	0505-LP-001-9380	71355
CONSTRUCTION MECHANIC	JAN 96	0505-LP-001-9390	71360
CRYPTOLOGIC TECHNICIAN (ADMINISTRATIVE)	APR 96	0505-LP-001-9720	71575
CRYPTOLOGIC TECHNICIAN (COLLECTION)	APR 97	0505-LP-012-8680	71579-A
CRYPTOLOGIC TECHNICIAN (COMMUNICATIONS)	JAN 96	0505-LP-001-9750	71578
CRYPTOLOGIC TECHNICIAN (INTERPRETIVE)	JAN 96	0505-LP-001-9730	71576
CRYPTOLOGIC TECHNICIAN (MAINTENANCE)	JAN 96	0505-LP-001-9740	71577
CRYPTOLOGIC TECHNICIAN (TECHNICAL)	JAN 96	0505-LP-001-9780	71580
DAMAGE CONTROLMAN	JAN 96	0505-LP-001-8860	71100
DENTAL TECHNICIAN	JUN 97	0505-LP-012-9580	71400-A
DISBURSING CLERK	JAN 96	0505-LP-001-9580	71480

**PART 1**  
**GENERAL NONRESIDENT TRAINING COURSES**

RATING	DATE	STOCK NUMBER	NAVEDTRA
ELECTRICIAN'S MATE	JAN 96	0505-LP-001-8800	71055
ELECTRICIAN'S MATE (NUCLEAR)	APR 98	0505-LP-013-2720	71287
ELECTRONICS TECHNICIAN (NUCLEAR)	APR 98	0505-LP-013-2730	71288
ELECTRONICS TECHNICIAN (SUBMARINE)	JUL 96	0505-LP-001-9180	71250
ELECTRONIC TECHNICIAN (SURFACE)	SEP 96	0505-LP-003-2360	71682
ELECTRONICS WARFARE TECHNICIAN	SEP 98	0505-LP-021-6370	71300-A
ENGINEERING AID	JAN 96	0505-LP-001-9410	71365
ENGINEMAN	JAN 96	0505-LP-001-8810	71060
EQUIPMENT OPERATOR	JAN 96	0505-LP-001-9420	71370
FIRE CONTROL TECHNICIAN	JUN 96	0505-LP-001-9220	71261
FIRE CONTROLMAN	DEC 96	0505-LP-003-3630	71683
GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL)	JUN 96	0505-LP-001-8820	71065
GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL)	JUN 96	0505-LP-001-8830	71066
GUNNER'S MATE	DEC 96	0505-LP-003-3640	71684
HOSPITAL CORPSMAN	JUL 96	0505-LP-001-9460	71405
HULL MAINTENANCE TECHNICIAN	JAN 96	0505-LP-001-8870	71105
ILLUSTRATOR DRAFTSMAN	JAN 96	0505-LP-001-9630	71500
INSTRUMENTMAN	JAN 96	0505-LP-001-8880	71110
INTELLIGENCE SPECIALIST	JUN 98	0505-LP-013-6510	71625-A
INTERIOR COMMUNICATIONS ELECTRICIAN	JUN 96	0505-LP-001-8840	71070
JOURNALIST	JUL 96	0505-LP-001-9640	71505
LEGALMAN	JAN 96	0505-LP-001-9470	71425
LITHOGRAPHER	JUL 96	0505-LP-001-9650	71510
MACHINERY REPAIRMAN	JAN 96	0505-LP-001-8910	71120

## PART 1 GENERAL NONRESIDENT TRAINING COURSES

RATING	DATE	STOCK NUMBER	NAVEDTRA
MACHINIST'S MATE (SUBMARINE)	JUL 96	0505-LP-001-8850	71075
MACHINIST'S MATE (SURFACE)	JUL 96	0505-LP-001-9880	71076
MACHINIST'S MATE (NUCLEAR)	APR 98	0505-LP-013-2710	71286
MASTER-AT-ARMS	JUL 96	0505-LP-001-9690	71550
MESS MANAGEMENT SPECIALIST	JUN 96	0505-LP-001-9590	71485
MINEMAN	JUN 96	0505-LP-001-9250	71280
MISSILE TECHNICIAN	APR 97	0505-LP-003-7250	71285-A
MUSICIAN	JAN 96	0505-LP-001-9680	71525
NAVY COUNSELOR (COUNSELOR)	JUL 96	0505-LP-001-9480	71430
NAVY COUNSELOR (RECRUITER)	JUL 96	0505-LP-001-9490	71431
OPERATIONS SPECIALIST	JUN 98	0505-LP-013-3880	71025-A
OPTICALMAN	JAN 96	0505-LP-001-8920	71125
PERSONNELMAN	JUN 96	0505-LP-001-9530	71440
PHOTOGRAPHER'S MATE	JAN 96	0505-LP-001-9670	71515
POSTAL CLERK	MAY 97	0505-LP-012-8690	71435-A
QUARTERMASTER	JAN 96	0505-LP-001-8790	71030
RADIOMAN	FEB 96	0505-LP-002-3140	71681
RELIGIOUS PROGRAM SPECIALIST	JUN 96	0505-LP-001-9540	71445
SHIP'S SERVICEMAN	JAN 96	0505-LP-001-9610	71490
SIGNALMAN	JAN 96	0505-LP-001-8770	71005
SONAR TECHNICIAN (SUBMARINE)	JUL 97	0505-LP-012-9130	71311-A
SONAR TECHNICIAN (SURFACE)	JUL 96	0505-LP-002-1810	71680
STEELWORKER	JAN 96	0505-LP-001-9430	71375
STOREKEEPER	JAN 96	0505-LP-001-9620	71495

**PART 1**  
**GENERAL NONRESIDENT TRAINING COURSES**

RATING	DATE	STOCK NUMBER	NAVEDTRA
TORPEDOMAN'S MATE	JUL 96	0505-LP-001-9870	71291
UTILITIESMAN	JAN 96	0505-LP-001-9440	71380
YEOMAN	JUN 96	0505-LP-001-9550	71450

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### LISTING OF OBSOLETE NONRESIDENT TRAINING COURSES

Answer sheets for the below obsolete courses **SHOULD NOT** be accepted for processing after the established **CUT-OFF** date. Students **MUST** turn in answer sheets for these courses prior to the cut-off date to receive credit.

OBSOLETE NAVEDTRA	OBSOLETE TITLE	OBSOLETE DATE	CUT-OFF DATE	REPLACEMENT NAVEDTRA
10276-1	FC3	17JUL97	17JAN1999	12403, 12404, 12405, 12406, 12407
12010-B	AMR FUNDAMENTALS	30DEC98	30SEP1999	12017
12723	DM 3&2	22AUG98	22MAR1999	72723
12723	DM 1&C	22AUG98	22MAR1999	82723
72390	AC2	30DEC98	30MAR2000	72390-A
80277-A	FC2	17JUL97	17JAN1999	12403, 12404, 12405, 12406, 12407
80356	AS3	30DEC98	30SEP1999	12385
80357	AS2	30DEC98	30DEC1999	12385
80358	AS1	30DEC98	30SEP1999	12385
80472	DM 3&2	26JUN97	26MAR1999	12723
80636	CE 3&2	30DEC98	30SEP1999	11039
82390	AC 1&C	30DEC98	30OCT1999	82390-A
82501	DS VOL 1	4MAY98	10AUG1999	DISCONTINUED
82502	DS VOL 2	19MAR98	10OCT1999	DISCONTINUED
82503	DS VOL 3	7OCT98	10JUN1999	DISCONTINUED
82504	DS VOL 4	7OCT98	10APR1999	DISCONTINUED
82505	DS VOL 5	19MAR98	10MAY1999	DISCONTINUED
82506	DS VOL 6	19MAR98	10APR1999	DISCONTINUED
82523	CE3	30DEC98	30JUN1999	11038
82652	SK 1&C	30NOV98	30NOV1999	82652-A

# PART 1 GENERAL NONRESIDENT TRAINING COURSES

## WHAT'S NEW IN PART 1!

TITLE	NAVEDTRA	TYPE	STOCK NUMBER
Air Traffic Controller	12390-A	TRAMAN	0502-LP-013-6790
Air Traffic Controller 2	72390-A	NRTC ANSWER KEY	0503-LP-013-6810 0504-LP-013-6820
Air Traffic Controller 1 & C	82390-A	NRTC ANSWER KEY	0503-LP-013-6830 0504-LP-013-6840
Aviation Maintenance Ratings	12017	T/N ANSWER KEY	0502-LP-013-0220 0504-LP-013-0230
Aviation Support Equipment Technician 3 & 2 Volumes 1 & 2	12385	T/N ANSWER KEY	0502-LP-013-0830 0504-LP-013-0840
Construction Electrician Basic	11038	T/N ANSWER KEY	0502-LP-003-5580 0504-LP-003-5590
Construction Electrician Intermediate	11039	T/N ANSWER KEY	0502-LP-013-7020 0504-LP-013-7030
Construction Mechanic, Advanced	82528	ERRATA #2	0503-LP-214-9102
Damage Controlman 3 & 2	80572	ERRATA #3	0503-LP-500-4723
Electrician's Mate 3 & 2	72164	ERRATA #2	0503-LP-001-8422
Electrician's Mate 1 & C	82164	ERRATA #2	0503-LP-001-8392
Electrician's Mate (Nuclear)	71287	PAR	0505-LP-013-2720
Electronic Warfare Technician	71300-A	PAR	0505-LP-021-6370
Electronics Technician (Nuclear)	71288	PAR	0505-LP-013-2730
Engineering Administration	82147	ERRATA #3	0503-LP-219-2903
Engineering Aid 1	82540-A	ERRATA #1	0503-LP-480-8101
Illustrator Draftsman, Volume 3	12722	TRAMAN	0502-LP-481-7300
Illustrator Draftsman 3 & 2, Volume 3	72722	NRTC ANSWER KEY	0503-LP-013-0530 0504-LP-013-0540
Illustrator Draftsman 1 & C, Volume 3	82722	NRTC ANSWER KEY	0503-LP-481-7400 0504-LP-013-1560
Illustrator Draftsman, Volume 4	12723-A	TRAMAN	0502-LP-013-6730
Illustrator Draftsman 3 & 2, Volume 4	72723	NRTC	0503-LP-013-6760

**PART 1**  
**GENERAL NONRESIDENT TRAINING COURSES**

TITLE	NAVEDTRA	TYPE	STOCK NUMBER
		ANSWER KEY	0504-LP-013-6770
Illustrator Draftsman 1 & C, Volume 4	82723	NRTC	0503-LP-013-6740
		ANSWER KEY	0504-LP-013-6750
Intelligence Specialist	71625-A	PAR	0505-LP-013-6510
Machinist's Mate (Nuclear)	71286	PAR	0505-LP-013-2710
Naval Safety Supervisor	82971	ERRATA #1	0503-LP-477-0601
Naval Space	82961	ERRATA #1	0503-LP-478-3301
Navy Counselor (Recruiter) 1 & C	82620	ERRATA #1	0503-LP-480-4101
NEETS	Modules 1-24	CD	0507-LP-013-7070
Operations Specialist	71025-A	PAR	0505-LP-013-3880
Quartermaster 3 & 2	72120	ERRATA #5	0503-LP-479-6605
Signalman 3 & 2	72104-A	ERRATA #2	0503-LP-482-1602
Signalman 1 & C	82104-A	ERRATA #2	0503-LP-482-1402
Storekeeper 3 & 2	82650	ERRATA #1	0503-LP-479-5301
Storekeeper 1 & C	82652-A	NRTC	0503-LP-013-5240
		ANSWER KEY	0504-LP-013-5260
TRAMANs and NRTCs	Distro "A"	CD	0502-LP-013-7680
	Distro "E"	CD	0502-LP-013-7690
Utilitiesman Advanced	82534	ERRATA #2	0503-LP-480-3802

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### NOTICE

### NOTICE

### NOTICE

All 24 NEETS Modules are now available on CD-ROM. The new NEETS CD, NAVEDTRA 11100-A, may be ordered using stock number 0507-LP-013-7070. The per order quantity restriction (QR) is 10.

Automatic distribution of this NEETS CD is being made to general libraries ashore and afloat learning multimedia resource centers (LMRC).

### NOTICE

### NOTICE

### NOTICE

The following list of products are now available in Portable Document Format (PDF) on CD-ROM. This CD may be ordered using stock number 0502-LP-013-7680 for Distribution Statement "A" products and stock number 0502-LP-013-7690 for all other products listed. The per order quantity restriction (QR) is 1.

Commands are encouraged to use this PDF print capability to the fullest extent possible to help reduce inventories of paper products and to provide quick access to advancement-in-rate material.

**NOTE: These CD-ROMs are NOT intended to be issued to individuals.**

Automatic distribution of this PDF CD-ROM is being made to general libraries ashore and afloat learning multimedia resource centers (LMRC).

**NOTE: Distribution Statement "A" products are also available from:  
<http://www.cnet.navy.mil/netpdtc/nac/neas.htm>**

#### LIST OF PRODUCTS IN PDF ON CD-ROM:

SHORTTITLE	PUBNUM	TYPE	DIST
ABE 1&C	82362	N	C
ABE 1&C	12362	T	C
ABE 3&2	12360-A	T	A
ABE 3&2	82360-A	N	A
ABF	12364	T	A
ABF 1&C	82364	N	A
ABF 3&2	72364	N	A
ABH 1&C	12370	T	B
ABH 1&C	82370	N	B
AC	12390	T	C
AC 1&C	82390	N	C
AC 2	72390	N	C

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

SHORTTITLE	PUBNUM	TYPE	DIST
AD 3&2	12300	T	C
AD 3&2	82300	N	C
AE 3&2	10348-G	T	B
AE 3&2	80348-A	N	B
AG 1&C	12853	T	A
AG 1&C	82853	N	A
AG 2 VOL 02	10371	T	A
AG 2 VOL 02	80371-A	N	A
AG 3	12850	T	A
AG 3	82850	N	A
AK 1&C	12657	T	A
AK 1&C	82657	N	A
AK 2	12655	T	A
AK 2	82655	N	A
AK 3	12654	T	A
AK 3	82654	N	A
AM (H&S) 3&2	12338	T	A
AM (H&S) 3&2	82338	N	A
AME 1&C	12318	T	A
AME 1&C	82318	N	A
AME 2	10401	T	A
AME 2	80401	N	A
AMMO HANDLING	13072-A	N	B
AO 1	82309	N	A
AO 3&2	72309	N	A
AO 3,2&1	12309	T	A
AT 3	12329	T	B
AT 3	82329	N	B
AT(I) 2	12334	T	C
AT(I) 2	82334	N	C
AT(O) 1	12331	T	A
AT(O) 1	82331	N	A
AW 3&2 MOD 01	A60-01-45-86	T	E
AW 3&2 MOD 01	060-01-45-86	N	E
AZ 3&2	12324	T	A
AZ 3&2	82324	N	A
BASIC MACHINES	12199	T	A
BASIC MACHINES	82199	N	A
BASIC MUSIC	10244	S	A
BASIC MUSIC (NAVY)	12013	S	A
BU 3&2 VOL 01	12520	T	A
BU 3&2 VOL 01	82520	N	A
BU 3&2 VOL 02	12521	T	A
BU 3&2 VOL 02	82521	N	A
BU ADV	12569	T/N	A
CM ADVANCED	12528	T	A
CM ADVANCED	82528	N	A
CUSTOMER SERVICE MANUAL	12972	T	A
CUSTOMER SERVICE MANUAL	82972	N	A
DC 1&C	12222	T	B
DC 1&C	82222	N	B
DC 3&2	10572	T	A
DC 3&2	80572	N	A
DK 1&C	12660	T	A
DK 1&C	82660	N	A
DK 3&2	12658	T	A
DK 3&2	82658	N	A
DM VOL 01	12720	T	A
DM VOL 01 (1&C)	82720	N	A
DM VOL 01 (3&2)	72720	N	A
EA 1	82540-A	N	A
EA 2	72540	N	A
EA 3	80696-A	N	A

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

SHORTTITLE	PUBNUM	TYPE	DIST
EA BASIC	10696-A	T	A
EA INTERMEDIATE/ADVANCED	12540	T	A
EAR TRAINING	10243	S	A
EM	12164	T	B
EM 1&C	82164	N	B
EM 3&2	72164	N	B
EN FUNDAMENTALS VOL 01	12170	T	A
EN FUNDAMENTALS VOL 01	82170	N	A
ENGINEERING ADMIN	12147	T	A
ENGINEERING ADMIN	82147	N	A
EO ADVANCED	12537	T	A
EO ADVANCED	82537	N	A
EO BASIC	12535	T	A
EO BASIC	82535	N	A
EQUAL OPPORTUNITY IN NAVY	13099-E	N	A
ESO	82015	N	A
ESO	12015	T	A
ET SUPERVISOR	12410	T	A
ET SUPERVISOR (ET1)	72410	N	A
ET SUPERVISOR (ETC)	82410	N	A
ET VOL 02	12412	T	A
ET VOL 02	82412	N	A
ET VOL 04	12414	T	A
ET VOL 04	82414	N	A
ET VOL 05	12415	T	A
ET VOL 05	82415	N	A
ET VOL 07	12417	T	A
ET VOL 07	82417	N	A
ET VOL 08	12418	T	A
ET VOL 08	82418	N	A
ET VOL 09	12419	T	A
ET VOL 09	82419	N	A
FC SUPERVISOR	12409	T	A
FC SUPERVISOR	82409	N	A
FC VOL 01	12403	T/N	A
FC VOL 02	12404	T/N	A
FC VOL 03	12405	T/N	A
FC VOL 04	12406	T/N	A
FC VOL 05	12407	T/N	E
FC VOL 06	12408	T/N	A
FIREMAN	12001	T	A
FIREMAN	82001	N	A
FLUID POWER	12964	T	A
FLUID POWER	82964	N	A
FUNDAMENTALS OF PETROLEUM	80883	N	B
FUNDAMENTALS OF PETROLEUM	10883-C	T	B
GM	12443	T	A
GM 1&C	82443	N	A
GM 3&2	72443	N	A
GS SUPERVISOR	12158	T	A
GS SUPERVISOR	82158	N	A
GSE 2	12153	T	B
GSE 2	82153	N	B
GSM 2	12157	T	B
GSM 2	82157	N	B
HARMONY	12012	S	A
HM 1&C	10670-C	T	A
HM 1&C	80670	N	A
HM 3&2	10669-C	T	A
HM 3&2	80669	N	A
IC VOL 01	12160	T	B
IC VOL 01	82160	N	B
IC VOL 02	12161	T	B

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

SHORTTITLE	PUBNUM	TYPE	DIST
IC VOL 02	82161	N	B
IC VOL 03	12162	T	B
IC VOL 03	82162	N	B
INTRODUCTION TO BASIC	10079-2	T/N	A
IS 3&2 VOL 01	12804	T	B
IS 3&2 VOL 01	82804	N	B
JO 1&C	12706	T	A
JO 1&C	82706	N	A
JO 3&2	12704	T	A
JO 3&2	82704	N	A
LN	12609	T	A
LN 1&C	82609	N	A
LN 3&2	72609	N	A
MA	12740	T	A
MA	82740	N	A
MILITARY REQ CPO	12047	T	A
MILITARY REQ CPO	82047	N	A
MILITARY REQ PO1	12046	T	A
MILITARY REQ PO1	82046	N	A
MILITARY REQ PO2	12045	T	A
MILITARY REQ PO2	82045	N	A
MILITARY REQ SCPO/MCPO	12048	T	A
MILITARY REQ SCPO/MCPO	82048	N	A
MM(SW) 1&C	12145	T	B
MM(SW) 1&C	82145	N	B
MN VOL 01	12448	T	A
MN VOL 01	82448	N	A
MN VOL 02	12449	T	A
MN VOL 02 (1&C)	82449	N	A
MN VOL 02 (3&2)	72449	N	A
MN VOL 03	12450	T	A
MN VOL 03 (1&C)	82450	N	A
MN VOL 03 (3&2)	72450	N	A
MN VOL 05	12452	T	A
MN VOL 05	82452	N	A
MS	12662	T	A
MS 1&C	82662	N	A
MS 3&2	72662	N	A
NAVAL ORIENTATION	82966	N	A
NAVAL ORIENTATION	12966	T	A
NAVAL POSTAL OFFICER	12649	T	A
NAVAL POSTAL OFFICER	82649	N	A
NAVAL SAFETY SUPERVISOR	12971	T	A
NAVAL SAFETY SUPERVISOR	82971	N	A
NAVY ADMIRALTY LAW	10725-B	T/N	A
NAVY INSTRUCTION THEORY	834	N	A
NAVY INSTRUCTION THEORY	134	T	A
NC(C) 1&C	13068-A	N	A
NC(R) 1&C	12620	T	A
NC(R) 1&C	82620	N	A
OFFICAL MAIL MGT	12053	T/N	A
PC 1&C	12602	T	A
PC 1&C	82602	N	A
PC 2	10222	T	A
PC 2	80222	N	A
PC 3	10223	T	A
PC 3	80223	N	A
PN 1&C	12606	T	A
PN 1&C	82606	N	A
PN 3&2	12604	T	A
PN 3&2	82604	N	A
PR 1&C	10330	T	A
PR 1&C	80330	N	A

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

SHORTTITLE	PUBNUM	TYPE	DIST
PR 2	10380	T	A
PR 2	80380	N	A
PUBLIC AFFAIRS POLICY	13086	N	A
RM MOD 01	12845	T/N	A
RM MOD 02	12846	T/N	A
RM MOD 03	12847	T/N	A
RM MOD 04	12848	T/N	A
RM MOD 05	12849	T/N	A
RP 1&C	10239-A	T	A
RP 1&C	80239	N	A
RP 3	12616	T	A
RP 3	82616	N	A
RP 3&2 MOD 01	287-01-45-82	T/N	A
RP 3&2 MOD 02	287-02-45-81	T/N	A
RP 3&2 MOD 03	287-03-45-83	T/N	A
S/P TELEPHONE TALKER	12097	T	A
S/P TELEPHONE TALKER	82097	N	A
SEABEE 1&C	12543	T	A
SEABEE 1&C	82543	N	A
SEABEE COMBAT HB VOL 01	12003	T	A
SEABEE COMBAT HB VOL 01	82003	N	A
SEABEE COMBAT HB VOL 02	12004	T	A
SEABEE COMBAT HB VOL 02	82004	N	A
SECURITY MANUAL	13080	N	A
SH 1&C	10287-F	T	A
SH 1&C	80287	N	A
SH 2	10177	T	A
SH 2	80177	N	A
SH 3	10176	T	A
SH 3	80176	N	A
SK 1&C	12652	T	A
SK 1&C	82652	N	A
SK 3&2	12650	T	A
SK 3&2	82650	N	A
SW VOL 01	12529	T	A
SW VOL 01	82529	N	A
SW VOL 02	12530	T	A
SW VOL 02	82530	N	A
TM 1&C	10164-D	T/N	E
TM 2	12435	T	A
TM 2	82435	N	A
UT 3	12532	T	A
UT 3	82532	N	A
UT ADVANCED	12534	T	A
UT ADVANCED	82534	N	A
YN 1&C	12614	T	A
YN 1&C	82614	N	A
YN 3&2	12613	T	A
YN 3&2	82613	N	A

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# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### LIST OF COURSES

#### AEROGRAPHER'S MATE 1 & C

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 82853  
SN: 0503-LP-480-9400 QR: 3  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-777-6400 QR: 1

#### TRAMAN

EDITION: 1995  
NAVEDTRA NUMBER: 12853  
SN: 0502-LP-480-9300 QR: 3

DESCRIPTION: 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.

#### AEROGRAPHER'S MATE SECOND CLASS, VOLUME 1

NRTC  
EDITION: 1988  
NAVEDTRA NUMBER: 80370  
SN: 0503-LP-213-7900 QR: 3  
ASSIGNMENTS: 10 POINTS: 18

ERRATA #1 DATED: 9406  
SN: 0503-LP-213-7901 QR: 3

ANSWER KEY SN: 0504-LP-777-0500 QR: 1

#### TRAMAN

EDITION: 1988  
NAVEDTRA NUMBER: 10370  
SN: 0502-LP-213-5900 QR: 3

DESCRIPTION: Provides Aerographer's Mate Second Class with occupational information in the following areas: world climate and weather; atmospheric physics; atmospheric circulation; air masses, fronts, and cyclones; surface weather map analysis; upper-air analysis; tropical analysis; and satellite, radar, and LDATS (Lighting Detection and Tracking System) interpretation.

#### AEROGRAPHER'S MATE SECOND CLASS, VOLUME 2

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 80371-A  
SN: 0503-LP-218-6200 QR: 3  
ASSIGNMENTS: 8 POINTS: 18

ANSWER KEY SN: 0504-LP-777-0600 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10371

SN: 0502-LP-212-9800 QR: 3

DESCRIPTION: Provides information on the following areas: oceanography, oceanography analysis, fundamentals of hydroacoustics, meteorological and oceanographic products and their interpretation, special products and computations, briefing techniques, administration and publications.

### AEROGRAPHER'S MATE THIRD CLASS

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82850

SN: 0503-LP-476-9100 QR: 3

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-2600 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12850

SN: 0502-LP-476-8900 QR: 3

DESCRIPTION: Serves as an introduction to surface weather observations, surface weather observation equipment, surface weather observation codes, upper air observations, bathythermograph observations, miscellaneous observations, satellite imagery acquisition, environmental communications, plotting standards, and computer systems.

### AIR TRAFFIC CONTROLLER 1 & C

NRTC

EDITION: 1998

NAVEDTRA NUMBER: 82390-A

SN: 0503-LP-013-6830 QR: 3

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-013-6840 QR: 1

### AIR TRAFFIC CONTROLLER

TRAMAN

EDITION: 1998

NAVEDTRA NUMBER: 12390-A

SN: 0502-LP-013-6790 QR: 3

DESCRIPTION: 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.

### AIR TRAFFIC CONTROLLER 2

NRTC

EDITION: 1998

NAVEDTRA NUMBER: 72390-A

SN: 0503-LP-013-6810 QR: 3

ASSIGNMENTS: 8 POINTS: 12

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ANSWER KEY SN: 0504-LP-013-6820 QR: 1

### AIR TRAFFIC CONTROLLER

TRAMAN

EDITION: 1998

NAVEDTRA NUMBER: 12390-A

SN: 0502-LP-013-6790 QR: 3

DESCRIPTION: 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. Emphasizes air traffic control operator position technical knowledge and operational responsibilities.

### AIRCREW SURVIVAL EQUIPMENTMAN 1 & C

NRTC

EDITION: 1985

NAVEDTRA NUMBER: 80330

SN: 0503-LP-500-2300 QR: 3

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-776-9700 QR: 1

TRAMAN

EDITION: 1985

NAVEDTRA NUMBER: 10330

SN: 0502-LP-012-2430 QR: 3

DESCRIPTION: 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.

### AIRCREW SURVIVAL EQUIPMENTMAN 2

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 80380

SN: 0503-LP-214-1800 QR: 3

ASSIGNMENTS: 10 POINTS: 10

ERRATA #1 DATED: 1993

SN: 0503-LP-214-1801 QR: 3

ANSWER KEY SN: 0504-LP-777-0700 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10380

SN: 0502-LP-214-0200 QR: 3

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### AIRMAN

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 82000  
SN: 0503-LP-213-0300 QR: 8  
ASSIGNMENTS: 11 POINTS: 17

ANSWER KEY SN: 0504-LP-013-1460 QR: 1

### TRAMAN

EDITION: 1990  
NAVEDTRA NUMBER: 12000  
SN: 0502-LP-213-0200 QR: 8

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

### AMMUNITION/EXPLOSIVES HANDLING ASHORE

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 13072-A  
SN: 0503-LP-481-9700 QR: 3  
ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-777-8000 QR: 1

DESCRIPTION: Covers rules and regulations that apply to handling ammunition and explosives according to NAVSEA OP 5.  
Special Information: The text for this course, *Ammunition and Explosives Ashore, NAVSEA OP 5, VOLUME 1, FIFTH REVISION*, is NOT supplied by NETPDTC and must be obtained locally.

### AVIATION WARFARE SYSTEMS OPERATOR 1 & C

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82810  
SN: 0503-LP-477-2600 QR: 3  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-1200 QR: 1

### TRAMAN

EDITION: 1993  
NAVEDTRA NUMBER: 12810  
SN: 0502-LP-477-2400 QR: 3

DESCRIPTION: 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.  
Special Information: **WARNING!** These products are classified CONFIDENTIAL.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### AVIATION ASW OPERATOR 3 & 2, AIRCREW DUTIES

NRTC

EDITION: 1986

NAVEDTRA NUMBER: 060-01-45-86

SN: 0507-LP-060-0105 QR: 3

ASSIGNMENTS: 2 POINTS: 3

ERRATA #2 DATED: 1991

SN: 0507-LP-060-0106 QR: 3

ANSWER KEY SN: 0504-LP-774-7600 QR: 1

### AVIATION ASW OPERATOR 3 & 2,

#### MODULE 1--AIRCREW DUTIES

TRAMAN

EDITION: 1986

NAVEDTRA NUMBER: A60-01-45-86

SN: 0507-LP-060-0100 QR: 3

DESCRIPTION: Covers the basic information needed for the AWA/H/N 3 and 2 to perform flight crew duties. The subjects covered include security, communications, recognition, ASW stores, SAR, and publications.

### AVIATION ASW OPERATOR 3, RADAR AND MAD

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 060-02-44-88

SN: 0507-LP-001-3180 QR: 3

ASSIGNMENTS: 5 POINTS: 5

ANSWER KEY SN: 0504-LP-774-7700 QR: 1

### AVIATION ASW OPERATOR 3, MODULE 2--RADAR AND MAD

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: A60-02-44-88

SN: 0507-LP-001-3170 QR: 3

DESCRIPTION: Covers radar principles, radar navigation, radar tactics, IFF/SIF, magnetic theory, MAD equipment, operations, and MAD tactics for personnel in the AW rating.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### AVIATION ASW OPERATOR 3 & 2, ESM AND IR

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 060-03-45-90

SN: 0507-LP-212-3300 QR: 3

ASSIGNMENTS: 7 POINTS: 8

ANSWER KEY SN: 0504-LP-774-7800 QR: 1

### AVIATION ASW OPERATOR 3 & 2,

#### MODULE 3--ESM AND IR

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: A60-03-45-90

SN: 0507-LP-212-3200 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

Special Information: **WARNING!** These products are classified SECRET.

### AVIATION ASW OPERATOR 3 & 2, FUNDAMENTALS OF ACOUSTIC ASW

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 060-04-45-92

SN: 0507-LP-215-5600 QR: 3

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-774-7900 QR: 1

### AVIATION ASW OPERATOR 3 & 2, MODULE 4--FUNDAMENTALS OF ACOUSTIC ASW

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: A60-04-45-92

SN: 0507-LP-215-4900 QR: 3

DESCRIPTION: Provides information on the physics of sound, sound travel, environmental prediction systems, acoustic systems, and acoustic tactics.

Special Information: **WARNING!** These products are classified SECRET/WNINTEL/NOFORN.\

### AVIATION BOATSWAIN'S MATE E 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82362

SN: 0503-LP-477-6100 QR: 3

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-777-2100 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12362

SN: 0502-LP-477-5900 QR: 3

DESCRIPTION: Provides information in the following areas: launch and recovery equipment administration and training; quality assurance administration; maintenance planning; launch and recovery equipment troubleshooting; special tests; maintenance inspections; catapult systems and equipment overhaul, and recovery equipment overhaul procedures.

### AVIATION BOATSWAIN'S MATE E 3 & 2

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82360-A

SN: 0503-LP-480-5600 QR: 3

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-4900 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12360-A

SN: 0502-LP-480-5500 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Provides the Aviation Boatswain's Mate E with information on the duties and responsibilities of ABE personnel in launching and recovering aircraft; maintenance tools and equipment; description, operation, and maintenance of MK 7 Mod 2 and 3 arresting gear; general procedures involved in the preparation, operation, and maintenance of various types of emergency recovery equipment afloat; description, operation, maintenance, and inspection of steam catapults; functions and operation of catapult associated equipment.

### AVIATION BOATSWAIN'S MATE F 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82364

SN: 0503-LP-477-2900 QR: 3

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-2200 QR: 1

### AVIATION BOATSWAIN'S MATE F

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12364

SN: 0502-LP-477-2700 QR: 3

DESCRIPTION: Contains information on 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 lube oil and MOGAS systems and operations, ashore systems and operations, and administration.

### AVIATION BOATSWAIN'S MATE F 3 & 2

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 72364

SN: 0503-LP-477-2800 QR: 3

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-9500 QR: 1

### AVIATION BOATSWAIN'S MATE F

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12364

SN: 0502-LP-477-2700 QR: 3

DESCRIPTION: 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 lube oil and MOGAS systems and operations, ashore systems and operations, and administration.

### AVIATION BOATSWAIN'S MATE H 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82370

SN: 0503-LP-476-5600 QR: 3

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-2400 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12370

SN: 0502-LP-476-5400 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Provides information on the following subjects: characteristics of the amphibious assault ship crash crane; hoisting systems; slings; aircraft-handling personnel duties; organization of aircraft salvage operations; aircraft rescue procedures; salvage planning; quality assurance; administrative reports; and emergency arresting gear maintenance.

### AVIATION BOATSWAIN'S MATE H 3 & 2

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82368

SN: 0503-LP-479-1100 QR: 3

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-2300 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12368

SN: 0502-LP-479-1000 QR: 3

DESCRIPTION: Provides information on: the ABH division organization afloat; tools, equipment, general maintenance, and supply procedure, aircraft handling, support, and crash and salvage equipment, aircraft handling aboard air-capable ships and on shore stations; fire fighting and damage crashes on shore stations; and shore base emergency gear and related equipment.

### AVIATION ELECTRICIAN'S MATE 1

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80366

SN: 0503-LP-217-8900 QR: 15

ASSIGNMENTS: 5 POINTS: 12

ANSWER KEY SN: 0504-LP-777-0400 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10366

SN: 0502-LP-217-7400 QR: 15

DESCRIPTION: Provides information to satisfy the occupational needs of Aviation Electrician's Mate First Class in the following areas: analog computation, digital computers, inertial navigation, air data computer, and automatic flight control and stabilization systems.

### AVIATION ELECTRICIAN'S MATE 3 & 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 80348-A

SN: 0503-LP-213-5800 QR: 5

ASSIGNMENTS: 10 POINTS: 12

ANSWER KEY SN: 0504-LP-776-9900 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 10348-G

SN: 0502-LP-213-5700 QR: 5

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

### AVIATION ELECTRONICS TECHNICIAN 1 (ORGANIZATIONAL)

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82331  
SN: 0503-LP-477-0800 QR: 8  
ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-777-1700 QR: 1

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12331  
SN: 0502-LP-477-0700 QR: 8

DESCRIPTION: Provides information on communications, navigation, radar, antisubmarine warfare, indicators, infrared, weapons systems, computers, automatic carrier landing system, and the electrostatic discharge program.

### AVIATION ELECTRONICS TECHNICIAN 3

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82329  
SN: 0503-LP-214-7700 QR: 8  
ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-777-1500 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12329  
SN: 0502-LP-214-7600 QR: 8

DESCRIPTION: 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.

### AVIATION ELECTRONICS TECHNICIAN AT2 (I)

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82334  
SN: 0503-LP-214-5600 QR: 8  
ASSIGNMENTS: 10 POINTS: 15

ERRATA #1 DATED: 1992  
SN: 0503-LP-214-5601 QR: 8

ANSWER KEY SN: 0504-LP-777-1800 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12334  
SN: 0502-LP-214-5400 QR: 8

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

### AVIATION MACHINIST'S MATE 3 & 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82300

SN: 0503-LP-214-6300 QR: 5

ASSIGNMENTS: 11 POINTS: 17

ANSWER KEY SN: 0504-LP-777-1100 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12300

SN: 0502-LP-214-6100 QR: 5

DESCRIPTION: 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.

### AVIATION MAINTENANCE ADMINISTRATIONMAN 3 & 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82324

SN: 0503-LP-214-7800 QR: 3

ASSIGNMENTS: 7 POINTS: 12

ERRATA #1 DATED: 1993

SN: 0503-LP-214-7801 QR: 3

ANSWER KEY SN: 0504-LP-777-1400 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12324

SN: 0502-LP-214-6900 QR: 3

DESCRIPTION: Provides information on the following subject areas: the Naval Aviation Maintenance Program (NAMP); maintenance administration; quality assurance/analysis; technical publications library; maintenance/production control; aircraft logs, records, and reports; and aeronautical equipment logs, records, and reports.

### AVIATION MAINTENANCE RATINGS

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12017

SN: 0502-LP-013-0220 QR: 10

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-013-0230 QR: 1

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### AVIATION ORDNANCEMAN 1

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82309

SN: 0503-LP-481-8800 QR: 5

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-7600 QR: 1

### AVIATION ORDNANCEMAN 3, 2 & 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12309

SN: 0502-LP-481-8600 QR: 5

DESCRIPTION: Provides information to satisfy the occupational needs of the Aviation Ordnanceman in the following areas: bombs, fuzes, 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.

### AVIATION ORDNANCEMAN 3 & 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 72309

SN: 0503-LP-481-8700 QR: 5

ASSIGNMENTS: 11 POINTS: 17

ANSWER KEY SN: 0504-LP-777-7500 QR: 1

### AVIATION ORDNANCEMAN 3, 2 & 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12309

SN: 0502-LP-481-8600 QR: 5

DESCRIPTION: Provides information to satisfy the occupational needs of the Aviation Ordnanceman in the following areas: bombs, fuzes, 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.

### AVIATION STOREKEEPER 1 & C

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82657

SN: 0503-LP-483-3600 QR: 3

ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-777-9400 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12657  
SN: 0502-LP-483-3400 QR: 3

DESCRIPTION: Consists of information on the knowledge, skills, and responsibilities required in the Aviation Storekeeper rating. The following subject matter is listed in detail: administration and customer service; storage and material handling; material receipts and expenditures; aviation material management; inventory management; financial management; and automated supply support.

### AVIATION STOREKEEPER 2

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82655  
SN: 0503-LP-216-2800 QR: 3  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-2800 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12655  
SN: 0502-LP-216-2700 QR: 3

DESCRIPTION: Provides knowledge of procedures that are performed by naval personnel in the area of supply. It includes a description of the administration of supply functions, publications used in performing supply functions, financial control, storage of supplies, stock control, purchasing of supplies, material control procedures, supply support, and special programs having aviation storekeeper input.

### AVIATION STOREKEEPER 3

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82654  
SN: 0503-LP-218-7300 QR: 3  
ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-776-2700 QR: 1

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12654  
SN: 0502-LP-218-7200 QR: 3

DESCRIPTION: Provides the basic information needed to satisfy the occupational needs of the AK3 in the following areas: organization; administration and customer service; material identification; material procurement; material receipt; material custody, stowage, equipment, and safety; material expenditure and movement; material control; supply support; and stock control.

### AVIATION STRUCTURAL MECHANIC E 1 & C

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82318  
SN: 0503-LP-214-4100 QR: 3  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-1300 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12318  
SN: 0502-LP-214-3900 QR: 3

DESCRIPTION: Provides information on the following subject matter: management, safety, and supervision; electrically operated canopy systems; utility systems; air-conditioning systems; and the Navy aircrew common ejection seat (NACES).

### AVIATION STRUCTURAL MECHANIC E 2

NRTC  
EDITION: 1989  
NAVEDTRA NUMBER: 80401  
SN: 0503-LP-213-8300 QR: 3  
ASSIGNMENTS: 9 POINTS: 15

ERRATA #2 DATED: 1993  
SN: 0503-LP-213-8302 QR: 3

ANSWER KEY SN: 0504-LP-777-0900 QR: 1

TRAMAN  
EDITION: 1989  
NAVEDTRA NUMBER: 10401  
SN: 0502-LP-213-6300 QR: 3

DESCRIPTION: Provides basic information concerning utility systems, canopy systems, pressurization and air-conditioning systems, oxygen systems, oxygen support equipment, and ejection seat systems.

### AVIATION STRUCTURAL MECHANIC (H & S) 3 & 2

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82338  
SN: 0503-LP-477-4100 QR: 3  
ASSIGNMENTS: 14 POINTS: 21

ANSWER KEY SN: 0504-LP-777-1900 QR: 1

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12338  
SN: 0502-LP-477-3900 QR: 3

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

### AVIATION SUPPORT EQUIPMENT TECHNICIAN 3 & 2, VOLUMES 1 & 2

TRAMAN/NRTC  
EDITION: 1998  
NAVEDTRA NUMBER: 12385  
SN: 0502-LP-013-0830 QR: 3  
ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-013-0840 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Provides an introduction to the Aviation Support Equipment Technician rating to include the rate structure and a short history of the AS ratings. This training manual also covers the following subjects: chassis and attaching systems: principles of internal combustion engines, internal combustion engine fuel systems, and engine cooling and lubricating systems: automotive electrical systems and equipment: power generating systems: hydraulics: pneumatics: liquid and gaseous oxygen systems and equipment: mobile air-conditioners: gas turbine compressors: and shipboard aircraft crash cranes and slings, fire-fighting equipment, forklifts, and flight deck scrubbers.

### BASIC MACHINES

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82199

SN: 0503-LP-478-6800 QR: 5

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-7200 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12199

SN: 0502-LP-478-6700 QR: 5

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

### BASIC MUSIC

SP

EDITION: 1980

NAVEDTRA NUMBER: 10244

SN: 0502-LP-051-2200 QR: 3

DESCRIPTION: Covers basic principles of music and musical instruments.

### BASIC MUSIC (NAVY)

SP

EDITION: 1991

NAVEDTRA NUMBER: 12013

SN: 0502-LP-215-5900 QR: 3

DESCRIPTION: Contains information on media, form, and conducting as it relates to Navy musician. Supplement to BASIC MUSIC, NAVEDTRA 10244.

### BLUEPRINT READING AND SKETCHING

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82014

SN: 0503-LP-479-3700 QR: 5

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-776-6300 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12014

SN: 0502-LP-479-3600 QR: 5

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

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### BOATSWAIN'S MATE 1 & C

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82100  
SN: 0503-LP-482-1100 QR: 5  
ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 9708  
SN: 0503-LP-482-1101 QR: 5

ANSWER KEY SN: 0504-LP-777-8200 QR: 1

### BOATSWAIN'S MATE

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12100  
SN: 0502-LP-482-0900 QR: 5

DESCRIPTION: Provides information in the following areas: honors and ceremonies; rigging; cargo handling and stowage; replenishment; navigation; ship handling; towing and salvage; mines and countermeasures; damage control organization and painting; ground tackle and towing; boats and davits; boat handling; gunnery; painting and amphibious operations.

### BOATSWAIN'S MATE 3 & 2

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 72100  
SN: 0503-LP-482-1200 QR: 5  
ASSIGNMENTS: 10 POINTS: 16

ANSWER KEY SN: 0504-LP-777-8300 QR: 1

### BOATSWAIN'S MATE

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12100  
SN: 0502-LP-482-0900 QR: 5

DESCRIPTION: Provides information in the following areas: honors and ceremonies; rigging; cargo handling and stowage; replenishment; navigation; ship handling; towing and salvage; mines and countermeasures; damage control organization and painting; ground tackle and towing; boats and davits; boat handling; gunnery; painting and amphibious operations.

### BUILDER ADVANCED

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12569  
SN: 0502-LP-481-3100 QR: 3  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-5600 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

### BUILDER 3 & 2, VOLUME 1

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82520

SN: 0503-LP-220-4300 QR: 3

ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9708

SN: 0503-LP-220-4301 QR: 3

ANSWER KEY SN: 0504-LP-776-7800 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12520

SN: 0502-LP-220-6200 QR: 3

DESCRIPTION: 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.

### BUILDER 3 & 2, VOLUME 2

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82521

SN: 0503-LP-478-6600 QR: 3

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-7900 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12521

SN: 0502-LP-478-6400 QR: 3

DESCRIPTION: 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.

### CHIEF PETTY OFFICER INDOCTRINATION COURSE, INSTRUCTOR'S GUIDE

SP

EDITION: 1993

NAVEDTRA NUMBER: 38203

SN: 0502-LP-220-7700 QR: 5

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Prepares newly selected chief petty officers for the transition from petty officer to chief petty officer; designed as part of an on board training package. The course provides new chief petty officers with a firm understanding of the authority, responsibility, and accountability inherent in their new roles. The guide for the instructor includes all the material covered in the Student's Journal in outline form and suggested instructor activities.

### CHIEF PETTY OFFICER INDOCTRINATION COURSE, STUDENT'S JOURNAL

SP

EDITION: 1992

NAVEDTRA NUMBER: 38202

SN: 0502-LP-220-7600 QR: 50

DESCRIPTION: Prepares newly selected chief petty officers for the transition from petty officer to chief petty officer; designed as part of an on board training package. The course provides new chief petty officers with a firm understanding of the authority, responsibility, and accountability inherent in their new roles. The Student's Journal is a narrative text, in modified outline form, which includes the topical outline, a course overview, key points, supplemental readings, and references. The journal covers nine subject areas: Professionalism; Communication Skills; Management Skills; Leadership Skills; Command Climate; Counseling; CPO Quarters and Messes; Navy Programs and Policies; and CPO Uniform History, Requirements, and Regulations.

### COMMAND MASTER CHIEF COURSE INSTRUCTOR'S GUIDE

SP

EDITION: 1993

NAVEDTRA NUMBER: 38205-A

SN: 0502-LP-220-8700 QR: 3

DESCRIPTION: This special publication is part of an onboard training package and is designed to be used by the instructors conducting the 4-day Command Master Chief seminar. The instructor's guide covers 13 subject areas: Introduction to the command master chief program; Navy ceremonies and protocols; Navy programs and policies; career counseling; Navy leader development program; assistance programs and policies; legal matters; public affairs; enlisted performance evaluation system; command awards and recognition; command finance; uniforms; and the Naval Reserve.

### COMMAND MASTER CHIEF COURSE STUDENT'S SOURCE BOOK

SP

EDITION: 1992

NAVEDTRA NUMBER: 38204-A

SN: 0502-LP-220-7800 QR: 25

DESCRIPTION: This special publication is part of an onboard training package for newly assigned command master chiefs, command senior chiefs, and command chiefs. It is designed to be used by those personnel while attending the 4-day Command Master Chief seminar. The instructor's guide covers 13 subject areas: Introduction to the command master chief program; Navy ceremonies and protocols; Navy programs and policies; career counseling; Navy leader development program; assistance programs and policies; legal matters; public affairs; enlisted performance evaluation system; command awards and recognition; command finance; uniforms; and the Naval Reserve.

### COMMUNICATIONS SECURITY MATERIAL SYSTEM CUSTODIAN

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 13075-A

SN: 0503-LP-478-3400 QR: 3

ASSIGNMENTS: 3 POINTS: 5

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ERRATA #2                    DATED: 9501  
SN: 0503-LP-478-3402    QR: 3

ANSWER KEY SN: 0504-LP-774-8500    QR: 1

DESCRIPTION: Covers Communications Security (COMSEC) Material Control System (CMCS); Introduction to COMSEC Material; CMS Education, Training, and Inspections; Establishing a CMS Account and CMS Responsibilities; Safeguarding COMSEC Material and Facilities; Maintaining COMSEC Material Allowance; Control and Documentation Requirements for COMSEC Material; Disestablishment of a CMS Account; COMSEC Incident Reporting; Practices Dangerous to Security (PDS).

Special Information: The text for this course, *Communications Security Material System, CMS 1*, is NOT supplied and must be obtained by the student.

### CONSTRUCTION ELECTRICIAN 1

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 82525  
SN: 0503-LP-213-2200    QR: 3  
ASSIGNMENTS: 6            POINTS: 10

ANSWER KEY SN: 0504-LP-776-8100    QR: 1

TRAMAN  
EDITION: 1990  
NAVEDTRA NUMBER: 12525  
SN: 0502-LP-213-2100    QR: 3

DESCRIPTION: 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.

### CONSTRUCTION ELECTRICIAN BASIC

TRAMAN/NRTC  
EDITION: 1998  
NAVEDTRA NUMBER: 11038  
SN: 0502-LP-003-5580    QR: 3  
ASSIGNMENTS: 6            POINTS: 9

ANSWER KEY SN: 0504-LP-003-5590    QR: 1

DESCRIPTION: 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.

### CONSTRUCTION ELECTRICIAN INTERMEDIATE

TRAMAN/NRTC  
EDITION: 1998  
NAVEDTRA NUMBER: 11039  
SN: 0502-LP-013-7020    QR: 3  
ASSIGNMENTS: 5            POINTS: 8

ANSWER KEY SN: 0504-LP-013-7030    QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

### CONSTRUCTION MECHANIC 3 & 2

TRAMAN/NRTC

EDITION: 1988

NAVEDTRA NUMBER: 10644-G1

SN: 0502-LP-216-5300 QR: 3

ASSIGNMENTS: 12 POINTS: 18

ERRATA #2 DATED: 9409

SN: 0502-LP-216-5302 QR: 3

ANSWER KEY SN: 0504-LP-776-3700 QR: 1

DESCRIPTION: Describes the basic theory, construction, and operating principles of gasoline and diesel engines, fuel and lubricating systems, electrical systems, power trains and suspension systems. Also covered in limited detail are the types of preventive maintenance inspections, and forms used in maintaining cost records.

### CONSTRUCTION MECHANIC ADVANCED

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82528

SN: 0503-LP-214-9100 QR: 3

ASSIGNMENTS: 11 POINTS: 17

ERRATA #2 DATED: 9801

SN: 0503-LP-214-9102 QR: 3

ANSWER KEY SN: 0504-LP-776-8200 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12528

SN: 0502-LP-214-8900 QR: 3

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### DAMAGE CONTROLMAN 1 & C

NRTC:

EDITION: 1996

NAVEDTRA NUMBER: 82222

SN: 0503-LP-483-3900 QR: 3

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-9600 QR: 1

TRAMAN: 12222

EDITION: 1996

NAVEDTRA NUMBER: 12222

SN: 0502-LP-483-3800 QR: 3

DESCRIPTION: Provides training in the following subject matter areas: advancement and responsibilities,; shop supervision; ship repair; damage control diagrams and blueprints; the damaged ship; damage control; and CBR contamination and decontamination.

### DAMAGE CONTROLMAN 3 & 2

NRTC

EDITION: 1986

NAVEDTRA NUMBER: 80572

SN: 0503-LP-500-4720 QR: 3

ASSIGNMENTS: 7 POINTS: 14

ERRATA #3 DATED: 9801

SN: 0503-LP-500-4723 QR: 3

ANSWER KEY SN: 0504-LP-775-5500 QR: 1

TRAMAN

EDITION: 1986

NAVEDTRA NUMBER: 10572

SN: 0502-LP-052-8640 QR: 3

ERRATA #1 DATED: 1991

SN: 0502-LP-052-8641 QR: 3

DESCRIPTION: Provides training on the following subject matter areas: damage control organization and communications; ship compartmentation and watertight integrity; the fundamentals of fire fighting, firefighting equipment and systems; fighting the fire and the repair of battle damage; radiological effects and countermeasures, biological and chemical agents, and CBR defense.

### DENTAL ASSISTANT, ADVANCED

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82571

SN: 0503-LP-214-2400 QR: 3

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-1900 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12571

SN: 0502-LP-214-2300 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Provides a study package for the advanced Dental Technician for advancement in rate E-5 through E-7.

### DENTAL ASSISTANT, BASIC

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 82570

SN: 0503-LP-214-2200 QR: 3

ASSIGNMENTS: 11 POINTS: 12

ERRATA #2 DATED: 9402

SN: 0503-LP-214-2202 QR: 3

ANSWER KEY SN: 0504-LP-776-1800 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 12570

SN: 0502-LP-214-2100 QR: 3

DESCRIPTION: Builds on the basic dental assisting skills learned at Dental Assistant Basic 'A' School. It will teach new skills required of the basic dental assistant.

### DISBURSING CLERK 1 & C

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82660

SN: 0503-LP-478-1300 QR: 3

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-6700 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12660

SN: 0502-LP-478-1200 QR: 3

DESCRIPTION: Consists of information on the knowledge, skills, and responsibilities required in the Disbursing Clerk rating. The following subject matter is listed in detail: Financial Accountability, Appropriation Accounting; Travel Allowances, U.S. Treasury Checks; Foreign Currency; Public Vouchers; Financial Returns, Pay Entitlements; and Separations, Discharges, and Retirements.

### DISBURSING CLERK 3 & 2

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82658

SN: 0503-LP-218-6900 QR: 3

ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-776-2900 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12658

SN: 0502-LP-218-6300 QR: 3

DESCRIPTION: Covers Disbursing Clerk functions; disbursing office; military pay entitlements; military pay deductions; Navy pay procedures; maintenance of leave and earning statement (LES) and personal financial record (PFR); payments; naval reserve disbursing requirements; appropriation accounting; travel and transportation; public

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

vouchers; collections; and reports and returns.

### EAR TRAINING MANUAL FOR MUSICIANS

SP  
EDITION: 1986  
NAVEDTRA NUMBER: 10243  
SN: 0502-LP-051-2150 QR: 3

DESCRIPTION: 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.

### EDUCATIONAL SERVICES OFFICER

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82015  
SN: 0503-LP-479-0400 QR: 10  
ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 9305  
SN: 0503-LP-479-0401 QR: 10

ANSWER KEY SN: 0504-LP-776-1700 QR: 1

### TRAMAN

EDITION: 1992  
NAVEDTRA NUMBER: 12015  
SN: 0502-LP-219-9900 QR: 10

DESCRIPTION: Assists Navy personnel preparing for duties as an educational services officer. The subject matter includes the following information: the role and duties of the educational services officer; the various educational programs available to officer and enlisted personnel; the steps that must be taken when preparing for advancement; how the Navy advancement system works; and the procedures that must be followed when Navy advancement examinations are administered.

### ELECTRICIAN'S MATE 1 & C

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82164  
SN: 0503-LP-001-8390 QR: 5  
ASSIGNMENTS: 12 POINTS: 18

ERRATA #2 DATED: 9808  
SN: 0503-LP-001-8392 QR: 5

ANSWER KEY SN: 0504-LP-778-0400 QR: 1

### ELECTRICIAN'S MATE

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12164  
SN: 0502-LP-001-8380 QR: 5

ERRATA #1 DATED: 9612  
SN: 0502-LP-001-8381 QR: 5

DESCRIPTION: Provides information in the following areas: rating information safety

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

practices, and administration; electrical installations, 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.

### **ELECTRICIAN'S MATE 3 & 2**

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 72164  
SN: 0503-LP-001-8420 QR: 5  
ASSIGNMENTS: 10 POINTS: 15

ERRATA #2 DATED: 9806  
SN: 0503-LP-001-8422 QR: 5

ANSWER KEY SN: 0504-LP-778-0300 QR: 1

### **ELECTRICIAN'S MATE**

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12164  
SN: 0502-LP-001-8380 QR: 5

ERRATA #1 DATED: 9612  
SN: 0502-LP-001-8381 QR: 5

DESCRIPTION: Provides information in the following areas: rating information safety practices, and administration; electrical installations, 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.

### **ELECTRONICS TECHNICIAN SUPERVISOR (ETC)**

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82410  
SN: 0503-LP-216-8300 QR: 5  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-7700 QR: 1

### **ELECTRONICS TECHNICIAN SUPERVISOR**

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12410  
SN: 0502-LP-216-7900 QR: 5

DESCRIPTION: Provides information on ET responsibilities; organization and administration of the electronics division; training of division personnel; quality assurance; test equipment management and administration; EMI; and supply.

### **ELECTRONICS TECHNICIAN SUPERVISOR (ET1)**

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 72410  
SN: 0503-LP-218-5900 QR: 5  
ASSIGNMENTS: 4 POINTS: 6

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ANSWER KEY SN: 0504-LP-775-4700 QR: 1

### ELECTRONICS TECHNICIAN SUPERVISOR

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12410

SN: 0502-LP-216-7900 QR: 5

DESCRIPTION: Provides information on the ET responsibilities; supervision practices; combat systems organization; NTDS/WDS and combat systems testing; electronics casualty control and reporting; calibration and stowage; electronic test equipment; 2M; and system/test equipment maintenance.

### ELECTRONICS TECHNICIAN, VOLUME 1--SAFETY

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12411-A

SN: 0502-LP-012-9160 QR: 8

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-012-9170 QR: 1

DESCRIPTION: 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.

### ELECTRONICS TECHNICIAN, VOLUME 2--ADMINISTRATION

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82412

SN: 0503-LP-477-5100 QR: 8

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-7900 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12412

SN: 0502-LP-477-4900 QR: 8

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### ELECTRONICS TECHNICIAN, VOLUME 3--COMMUNICATIONS SYSTEMS

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12413-A

SN: 0502-LP-012-8820 QR: 8

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-012-8830 QR: 1

DESCRIPTION: 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).

### ELECTRONICS TECHNICIAN, VOLUME 4--RADAR SYSTEMS

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82414

SN: 0503-LP-478-1100 QR: 8

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-775-8100 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12414

SN: 0502-LP-478-0900 QR: 8

DESCRIPTION: 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.

### ELECTRONICS TECHNICIAN, VOLUME 5--NAVIGATION SYSTEMS

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82415

SN: 0503-LP-479-3900 QR: 8

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-8200 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12415

SN: 0502-LP-479-3800 QR: 8

DESCRIPTION: 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.

### ELECTRONICS TECHNICIAN, VOLUME 6--DIGITAL DATA SYSTEMS

NRTC

EDITION: 1997

NAVEDTRA NUMBER: 82416-A

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

SN: 0503-LP-003-3670 QR: 8  
ASSIGNMENTS: 14 POINTS: 21

ANSWER KEY SN: 0504-LP-003-3680 QR: 1

TRAMAN  
EDITION: 1997  
NAVEDTRA NUMBER: 12416-A  
SN: 0502-LP-003-3660 QR: 8

DESCRIPTION: 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.

### ELECTRONICS TECHNICIAN, VOLUME 7--ANTENNAS AND WAVE PROPAGATION

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 82417  
SN: 0503-LP-480-3000 QR: 8  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-777-7800 QR: 1

TRAMAN  
EDITION: 1995  
NAVEDTRA NUMBER: 12417  
SN: 0502-LP-480-2900 QR: 8

DESCRIPTION: 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.

### ELECTRONICS TECHNICIAN, VOLUME 8--SUPPORT SYSTEMS

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82418  
SN: 0503-LP-480-3200 QR: 8  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-9500 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12418  
SN: 0502-LP-480-3100 QR: 8

DESCRIPTION: 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.

### ELECTRONICS TECHNICIAN, VOLUME 9--ELECTRO-OPTICS

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82419  
SN: 0503-LP-477-6600 QR: 8  
ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-0100 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12419

SN: 0502-LP-477-6400 QR: 8

DESCRIPTION: Provides a basic overview of electro-optical devices used in the U. S. Navy. Identifies the devices in current use and explains their operating principles and how they are used.

### ELECTRONICS WARFARE TECHNICIAN 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82480

SN: 0503-LP-477-2300 QR: 3

ASSIGNMENTS: 3 POINTS: 5

ERRATA #1

DATED: 9501

SN: 0503-LP-477-2301 QR: 3

ANSWER KEY SN: 0504-LP-775-0600 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12480

SN: 0502-LP-477-2200 QR: 3

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

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82478

SN: 0503-LP-218-3100 QR: 3

ASSIGNMENTS: 5 POINTS: 9

ANSWER KEY SN: 0504-LP-775-0500 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12478

SN: 0502-LP-218-2900 QR: 3

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/NOFORN.

### ENGINEERING ADMINISTRATION

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82147

SN: 0503-LP-219-2900 QR: 8

ASSIGNMENTS: 6 POINTS: 9

ERRATA #3

DATED: 9802

SN: 0503-LP-219-2903 QR: 8

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ANSWER KEY SN: 0504-LP-775-6400 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12147

SN: 0502-LP-219-2800 QR: 8

DESCRIPTION: Covers the duties and responsibilities of engineering department personnel in the following areas: operation, organization, records systems, training, material, environmental policies and procedures, maintenance administration, quality assurance, ship availabilities, repair activities, ship trials, and occupational health programs.

### ENGINEERING AID 1

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82540-A

SN: 0503-LP-480-8100 QR: 3

ASSIGNMENTS: 4 POINTS: 8

ERRATA #1 DATED: 9802

SN: 0503-LP-480-8101 QR: 3

ANSWER KEY SN: 0504-LP-777-6200 QR: 1

### ENGINEERING AID INTERMEDIATE/ADVANCED

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12540

SN: 0502-LP-477-8800 QR: 3

DESCRIPTION: Discusses the principles of administration; organization and function of an EA1 in an NMCB operations department; fundamentals of geodesy and field astronomy; classification of soils by sieve analysis and according to the USCS; concrete design; bituminous mix design; soil stabilization and design.

### ENGINEERING AID 2

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 72540

SN: 0503-LP-477-8900 QR: 3

ASSIGNMENTS: 12 POINTS: 18

ERRATA #1 DATED: 9705

SN: 0503-LP-477-8901 QR: 3

ANSWER KEY SN: 0504-LP-776-4200 QR: 1

### ENGINEERING AID INTERMEDIATE/ADVANCED

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12540

SN: 0502-LP-477-8800 QR: 3

DESCRIPTION: Discusses the basic knowledge of the materials and methods of construction used for heavy timber, structural steel construction, and mechanical and electrical systems; horizontal construction; development and use of construction drawings and specifications; checking and editing construction drawings; planning and estimating manpower, material, and equipment quantities; care and adjustment of surveying equipment; field tests and adjustment of surveying equipment; obtaining and converting field notes into topographic maps; computing areas by DMD and

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

trapezoidal rule; techniques of computing horizontal and vertical curves, level, and traverse; procedures for land, topographic, and triangulation surveys; and testing soils moisture content, liquid limits, specific gravity, compaction, and density.

### ENGINEERING AID 3

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 80696-A  
SN: 0503-LP-480-7900 QR: 3  
ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-777-6300 QR: 1

### ENGINEERING AID BASIC

TRAMAN  
EDITION: 1995  
NAVEDTRA NUMBER: 10696-A  
SN: 0502-LP-480-7800 QR: 3

ERRATA #2 DATED: 1996  
SN: 0502-LP-480-7802 QR: 3

DESCRIPTION: 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.

### ENGINEMAN FUNDAMENTALS, VOLUME 1--RECIPROCATING ENGINES AND DRIVE MECHANISMS

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82170  
SN: 0503-LP-483-8100 QR: 5  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-778-0100 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12170  
SN: 0502-LP-483-7900 QR: 5

DESCRIPTION: Explains principles of operation for internal-combustion engines and their associated drive mechanisms. Presented in a new format.

### ENGINEMAN 1 & C

TRAMAN/NRTC  
EDITION: 1987  
NAVEDTRA NUMBER: 10543-E1  
SN: 0502-LP-052-7170 QR: 5  
ASSIGNMENTS: 11 POINTS: 22

ERRATA #1 DATED: 1991  
SN: 0502-LP-052-7171 QR: 5

ANSWER KEY SN: 0504-LP-775-1300 QR: 1

DESCRIPTION: 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

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

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.

### ENGINEMAN 2

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82149  
SN: 0503-LP-217-7100 QR: 5  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-6500 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12149  
SN: 0502-LP-217-6900 QR: 5

DESCRIPTION: 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.

### ENGINEMAN 3

NRTC  
EDITION: 1989  
NAVEDTRA NUMBER: 80539  
SN: 0503-LP-221-9300 QR: 5  
ASSIGNMENTS: 9 POINTS: 16

ERRATA #1 DATED: 9305  
SN: 0503-LP-221-9301 QR: 5

ANSWER KEY SN: 0504-LP-775-5100 QR: 1

TRAMAN  
EDITION: 1989  
NAVEDTRA NUMBER: 10539  
SN: 0502-LP-221-7400 QR: 5

DESCRIPTION: Provides training on the following subject matter areas: the construction, design, principles of operation, and basic maintenance on diesel engines, reduction gears, and related auxiliary equipment and support systems; the design, construction, principles of operation, application, and basic maintenance of marine auxiliary equipment, such as compressed air systems, evaporators, refrigeration and air conditioning systems, deck machinery, steering gear, and laundry and galley equipment.

### EQUAL OPPORTUNITY IN THE NAVY

NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 13099-E  
SN: 0503-LP-003-5280 QR: 10  
ASSIGNMENTS: 2 POINTS: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ERRATA #1                    DATED: 9711  
SN: 0503-LP-003-5281    QR: 10

ANSWER KEY SN: 0504-LP-003-5310    QR: 1

DESCRIPTION: This nonresident training course information vital to all enlisted, commissioned, and civilian personnel with the Department of the Navy. The course covers the following subject matter: Equal Opportunity (EO) responsibilities of commanders; additional EO responsibilities of shore commanders; command managed equal opportunity (CMEO); prevention of sexual harassment; Navy complaint procedures (informal and formal); incident handling and reporting (a commander's guide); Navy EO training, EO issues; definition of terms; Navy EO/Sexual Harassment Formal Complain Form (NAVPERS 5354/2); discrimination/sexual harassment message reporting guidelines; EO assistants duties and responsibilities; CMEO officer duties and responsibilities; EO resources; EO checklist; sample plan of the day notes; and guidelines for the command investigating officer.

Special Information: The text for this course, *Navy Equal Opportunity Manual*, OPNAV Instruction 5354.1D, is **NOT** supplied and must be obtained by the student.

### EQUIPMENT OPERATOR ADVANCED

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82537  
SN: 0503-LP-221-6600    QR: 3  
ASSIGNMENTS: 6            POINTS: 9

ERRATA #1                    DATED: 1995  
SN: 0503-LP-221-6601    QR: 3

ANSWER KEY SN: 0504-LP-776-8500    QR: 1

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12537  
SN: 0502-LP-221-6400    QR: 3

DESCRIPTION: 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.

### EQUIPMENT OPERATOR BASIC

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82535  
SN: 0503-LP-479-3200    QR: 3  
ASSIGNMENTS: 12           POINTS: 18

ANSWER KEY SN: 0504-LP-776-8400    QR: 1

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12535  
SN: 0502-LP-479-3100    QR: 3

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### FIRE CONTROL TECHNICIAN 1 & C

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82402  
SN: 0503-LP-476-9300 QR: 3  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-774-9900 QR: 1

### TRAMAN

EDITION: 1993  
NAVEDTRA NUMBER: 12402  
SN: 0502-LP-476-9200 QR: 3

DESCRIPTION: Provides the usual way of satisfying the requirement for completing the FT 1 & C TRAMAN necessary for enlisted personnel preparing for advancement to the rates of Fire Control Technician First Class and Chief Petty Officer. The course contains questions concerning the fire control technician rating, fire control systems (MK 118 DWS/CS, CCS MK 1, AN-BSY 1, CCS MK 2), plotting, weapons and their employment, OTH-T, and administration.

Special Information: **WARNING!** These products are classified CONFIDENTIAL/NOFORN.

### FIRE CONTROL TECHNICIAN (GUN) 3 & 2

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82400  
SN: 0503-LP-217-2100 QR: 3  
ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-774-9800 QR: 1

### TRAMAN

EDITION: 1992  
NAVEDTRA NUMBER: 12400  
SN: 0502-LP-217-1900 QR: 3

DESCRIPTION: Provides background information necessary for enlisted personnel preparing for advancement to the (underwater) rates of Fire Control Technician (G) Third and Second Class. The TRAMAN includes information on the Fire Control Technician Gun Rating, underwater fire control, underwater fire control systems, peripheral equipment, the Digital Computer Set AN/UYK-7(V), general maintenance, and administration. A separate NRTC provides the usual way of satisfying the requirements for completing the TRAMAN.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### FIRE CONTROLMAN SUPERVISOR

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 82409  
SN: 0503-LP-481-1700 QR: 5  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-5200 QR: 1

### TRAMAN

EDITION: 1995  
NAVEDTRA NUMBER: 12409  
SN: 0502-LP-481-1400 QR: 5

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Covers Fire Controlman supervisor responsibilities, organization, administration, inspections, and maintenance; supervision and training; combat systems, subsystems, and their maintenance; and weapons exercises.

### FIRE CONTROLMAN, VOLUME 1--FIRE-CONTROL ADMINISTRATION AND SAFETY

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12403

SN: 0502-LP-003-3690 QR: 5

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-003-3720 QR: 1

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

### FIRE CONTROLMAN, VOLUME 2--FIRE-CONTROL RADAR FUNDAMENTALS

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12404

SN: 0502-LP-003-3730 QR: 5

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-003-3750 QR: 1

DESCRIPTION: Covers basic radar systems and radar safety as they pertain to the Fire Controlman rating.

### FIRE CONTROLMAN, VOLUME 3--DIGITAL DATA SYSTEMS

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12405

SN: 0502-LP-003-3760 QR: 5

ASSIGNMENTS: 14 POINTS: 21

ANSWER KEY SN: 0504-LP-003-3780 QR: 1

DESCRIPTION: 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.

### FIRE CONTROLMAN, VOLUME 4--FIRE-CONTROL MAINTENANCE CONCEPTS

TRAMAN/NRTC

EDITION: 1997

NAVEDTRA NUMBER: 12406

SN: 0502-LP-003-3790 QR: 5

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-003-3820 QR: 1

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### **FIRE CONTROLMAN, VOLUME 5--DISPLAY SYSTEMS AND DEVICES**

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12407  
SN: 0502-LP-483-2900 QR: 5  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-777-9200 QR: 1

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

### **FIRE CONTROLMAN, VOLUME 6--DIGITAL COMMUNICATIONS**

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12408  
SN: 0502-LP-483-3200 QR: 5  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-777-9300 QR: 1

DESCRIPTION: Covers the fundamentals of data communications, the Link-11 and Link-4A systems, and local area networks.

### **FIREMAN**

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82001  
SN: 0503-LP-213-7800 QR: 8  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-775-5600 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12001  
SN: 0502-LP-213-7700 QR: 8

DESCRIPTION: 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.

### **FLUID POWER**

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 82964  
SN: 0503-LP-213-2400 QR: 3  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #2 DATED: 1992  
SN: 0503-LP-213-2402 QR: 3

ANSWER KEY SN: 0504-LP-775-8600 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN  
EDITION: 1990  
NAVEDTRA NUMBER: 12964  
SN: 0502-LP-213-2300 QR: 3

DESCRIPTION: 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.

### FUNDAMENTALS OF PETROLEUM

NRTC  
EDITION: 1988  
NAVEDTRA NUMBER: 80883  
SN: 0503-LP-480-6400 QR: 3  
ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-776-5200 QR: 1

TRAMAN  
EDITION: 1988  
NAVEDTRA NUMBER: 10883-C  
SN: 0502-LP-054-4165 QR: 3

DESCRIPTION: Provides general background information for personnel who deal directly or indirectly with petroleum and petroleum products needed by the Armed Forces for their ships, aircraft, vehicles, and other mechanized equipment. The course emphasizes the role of petroleum in national defense; petroleum resources; properties of crude petroleum; production and refining of petroleum; procedures in measuring, sampling, and testing petroleum products; types and uses of military petroleum products; quality surveillance; practices in handling, storing, and transporting petroleum products; principles of Navy tanker operations; and operations at a Navy fuel depot.

### GAS TURBINE SYSTEMS SUPERVISOR

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82158  
SN: 0503-LP-478-6300 QR: 3  
ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-6800 QR: 1

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12158  
SN: 0502-LP-478-6200 QR: 3

DESCRIPTION: 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.

### GAS TURBINE SYSTEM TECHNICIAN (ELECTRICAL) 2

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82153  
SN: 0503-LP-218-8700 QR: 3  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-6600 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12153  
SN: 0502-LP-218-8600 QR: 3

DESCRIPTION: 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.

### GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) 2

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82157  
SN: 0503-LP-220-5400 QR: 3  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-6700 QR: 1

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12157  
SN: 0502-LP-220-5300 QR: 3

DESCRIPTION: 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.

### GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL) 3/GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) 3, VOLUME 1

NRTC  
EDITION: 1989  
NAVEDTRA NUMBER: 80563  
SN: 0503-LP-212-8100 QR: 5  
ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-775-5300 QR: 1

TRAMAN  
EDITION: 1989  
NAVEDTRA NUMBER: 10563  
SN: 0502-LP-212-6400 QR: 5

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### GAS TURBINE SYSTEMS TECHNICIAN (ELECTRICAL) 3/GAS TURBINE SYSTEMS TECHNICIAN (MECHANICAL) 3, VOLUME 2

NRTC

EDITION: 1991

NAVEDTRA NUMBER: 80564

SN: 0503-LP-213-6600 QR: 5

ASSIGNMENTS: 10 POINTS: 12

ANSWER KEY SN: 0504-LP-775-5400 QR: 1

TRAMAN

EDITION: 1991

NAVEDTRA NUMBER: 10564

SN: 0502-LP-213-6400 QR: 5

DESCRIPTION: 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.

### GUNNER'S MATE 1 & C

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82443

SN: 0503-LP-480-3600 QR: 3

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-003-3430 QR: 1

### GUNNER'S MATE

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12443

SN: 0502-LP-480-3300 QR: 3

DESCRIPTION: Provides technical and supervisory information to satisfy the occupational needs of the senior Gunner's Mate in the following areas: 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, and administration and training.

### GUNNER'S MATE 3 & 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 72443

SN: 0503-LP-480-3500 QR: 3

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-003-3440 QR: 1

### GUNNER'S MATE

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12443

SN: 0502-LP-480-3300 QR: 3

DESCRIPTION: Provides an overview of the Gunner's Mate rating that includes: explosives and pyrotechnics; ammunition, magazines, and missile handling; small

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

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; and maintenance.

### HARMONY

SP  
EDITION: 1990  
NAVEDTRA NUMBER: 12012  
SN: 0502-LP-213-0600 QR: 3

DESCRIPTION: Discusses use and formation of harmony.

### HOSPITAL CORPSMAN 1 & C

NRTC  
EDITION: 1986  
NAVEDTRA NUMBER: 80670  
SN: 0503-LP-500-5700 QR: 8  
ASSIGNMENTS: 5 POINTS: 10

ERRATA #1 DATED: 1991  
SN: 0503-LP-500-5701 QR: 8

ANSWER KEY SN: 0504-LP-776-1500 QR: 1

### TRAMAN

EDITION: 1986  
NAVEDTRA NUMBER: 10670-C  
SN: 0502-LP-053-3510 QR: 8

DESCRIPTION: Covers patient assessment and treatment; diet therapy; prescriptions; preventive medicine; medical aspects of chemical, biological, and radiological defense; clinical laboratory; naval organization; naval manuals, directives, and reports; Navy correspondence and classified information; personnel records and accounting; Navy medical finance and supply; decedent affairs program; legal implications in medical care; and health care administration.

### HOSPITAL CORPSMAN 3 & 2

NRTC  
EDITION: 1989  
NAVEDTRA NUMBER: 80669  
SN: 0503-LP-218-9600 QR: 8  
ASSIGNMENTS: 8 POINTS: 10

ERRATA #2 DATED: 1995  
SN: 0503-LP-218-9602 QR: 8

ANSWER KEY SN: 0504-LP-776-1400 QR: 1

### TRAMAN

EDITION: 1989  
NAVEDTRA NUMBER: 10669-C  
SN: 0502-LP-218-8100 QR: 8

DESCRIPTION: Covers anatomy and physiology; first aid and emergency procedures; patient care; clinical laboratory, pharmacology and toxicology; pharmacy; health records and physical examinations; administration; preventive medicine; and chemical, biological, and radiological warfare.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### HULL MAINTENANCE TECHNICIAN

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 82219  
SN: 0503-LP-479-6900 QR: 5  
ASSIGNMENTS: 10 POINTS: 15

ERRATA #2 DATED: 9709  
SN: 0503-LP-479-6902 QR: 5

ANSWER KEY SN: 0504-LP-777-8100 QR: 1

### TRAMAN

EDITION: 1995  
NAVEDTRA NUMBER: 12219  
SN: 0502-LP-479-6800 QR: 5

ERRATA #1 DATED: 9603  
SN: 0502-LP-479-6801 QR: 5

DESCRIPTION: 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.

### ILLUSTRATOR DRAFTSMAN 1 & C, VOLUME 1--EQUIPMENT

NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 82720  
SN: 0503-LP-481-6900 QR: 3  
ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-7100 QR: 1

### ILLUSTRATOR DRAFTSMAN, VOLUME 1--EQUIPMENT

TRAMAN  
EDITION: 1997  
NAVEDTRA NUMBER: 12720  
SN: 0502-LP-481-6800 QR: 3

DESCRIPTION: This is one of four in the DM training series. Volume 1 is an overview of general shop administration; equipment, equipment capabilities, limitations, and maintenance; and required operator adjustments.

### ILLUSTRATOR DRAFTSMAN 3 & 2, VOLUME 1--EQUIPMENT

NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 72720  
SN: 0503-LP-003-3610 QR: 3  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-003-3620 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### ILLUSTRATOR DRAFTSMAN, VOLUME 1--EQUIPMENT

TRAMAN

EDITION: 1997

NAVEDTRA NUMBER: 12720

SN: 0502-LP-481-6800 QR: 3

DESCRIPTION: This is one of four in the DM training series. Volume 1 is an overview of general shop administration; equipment, equipment capabilities, limitations, and maintenance; and required operator adjustments.

### ILLUSTRATOR DRAFTSMAN 1 & C, VOLUME 3--EXECUTIONABLE PRACTICES

NRTC

EDITION: 1998

NAVEDTRA NUMBER: 82722

SN: 0503-LP-481-7400 QR: 3

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-013-1560 QR: 1

### ILLUSTRATOR DRAFTSMAN, VOLUME 3--EXECUTIONABLE PRACTICES

TRAMAN

EDITION: 1998

NAVEDTRA NUMBER: 12722

SN: 0502-LP-481-7300 QR: 3

DESCRIPTION: This is one of four in the DM training series. This volume covers the theory of color, photography, computer-generated art, figure drawing, cartooning, animation, mediums, lettering, and airbrush.

### ILLUSTRATOR DRAFTSMAN 3 & 2, VOLUME 3--EXECUTIONABLE PRACTICES

NRTC

EDITION: 1998

NAVEDTRA NUMBER: 72722

SN: 0503-LP-013-0530 QR: 3

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-013-0540 QR: 1

### ILLUSTRATOR DRAFTSMAN, VOLUME 3--EXECUTIONABLE PRACTICES

TRAMAN

EDITION: 1998

NAVEDTRA NUMBER: 12722

SN: 0502-LP-481-7300 QR: 3

DESCRIPTION: This is one of four in the DM training series. This volume covers the theory of color, photography, computer-generated art, figure drawing, cartooning, animation, mediums, lettering, and airbrush.

### ILLUSTRATOR DRAFTSMAN, 1 & C, VOLUME 4--PRESENTATIONS GRAPHICS

NRTC

EDITION: 1998

NAVEDTRA NUMBER: 82723

SN: 0503-LP-013-6740 QR: 3

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-013-6750 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### ILLUSTRATOR DRAFTSMAN, VOLUME 4--PRESENTATIONS GRAPHICS

TRAMAN

EDITION: 1998

NAVEDTRA NUMBER: 12723-A

SN: 0502-LP-013-6730 QR: 3

DESCRIPTION: This volume is Volume 4 in the DM training series. The training manual and separate NRTCs in Volume 4 cover the following subjects pertaining to presentations graphics: prepress copy preparation, television graphics, displays, exhibits, and audiovisual presentations.

### ILLUSTRATOR DRAFTSMAN, 3 & 2, VOLUME 4--PRESENTATIONS GRAPHICS

NRTC

EDITION: 1998

NAVEDTRA NUMBER: 72723

SN: 0503-LP-013-6760 QR: 3

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-013-6770 QR: 1

### ILLUSTRATOR DRAFTSMAN, VOLUME 4--PRESENTATIONS GRAPHICS

TRAMAN

EDITION: 1998

NAVEDTRA NUMBER: 12723-A

SN: 0502-LP-013-6730 QR: 3

DESCRIPTION: This volume is Volume 4 in the DM training series. The training manual and separate NRTCs in Volume 4 cover the following subjects pertaining to presentations graphics: prepress copy preparation, television graphics, displays, exhibits, and audiovisual presentations.

### INSTRUMENTMAN 1 & C

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 82202

SN: 0503-LP-213-0900 QR: 3

ASSIGNMENTS: 6 POINTS: 10

ANSWER KEY SN: 0504-LP-775-7300 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 12202

SN: 0502-LP-213-0800 QR: 3

DESCRIPTION: Provides training in the following areas: administration of Instrument Repair Shops, Mechanical Instrument Repair and Calibration Shops (MIRCS), Fleet Mechanical Calibration Laboratories (FMCL), Watch Repair Shops, and Office Machine Repair Facilities; Traceability, equipment, procedural, calibration, and instrument standardization within the Navy Calibration Program for measuring equipment and test measuring instruments; functions of the torque, pressure, temperature, and the oxygen clean areas of MIRCS and FMCLs, including a Report of Calibration for Deadweight Testers; manufacture and replacement of watch repair parts and special tools, casualty analysis procedures and testing of Naval timepieces, manipulation and manufacture of hairsprings; position, beat, temperature compensation, and isochronal adjustments for elimination of conditions that effect the degree of accuracy of timepieces; interpretation of data produced by watch/clock timing machines and test equipment.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### INSTRUMENTMAN 3 & 2

NRTC  
EDITION: 1986  
NAVEDTRA NUMBER: 80193  
SN: 0503-LP-500-0930 QR: 3  
ASSIGNMENTS: 8 POINTS: 16

ANSWER KEY SN: 0504-LP-775-4900 QR: 1

### TRAMAN

EDITION: 1986  
NAVEDTRA NUMBER: 10193-D  
SN: 0502-LP-050-9655 QR: 3

DESCRIPTION: Provides basic information on the principles of measurement and physics, incorporating the classification, principles of design, construction, and repair of pressure measuring devices, temperature measuring devices, tachometers, liquid-level indicators, flow indicators, torque measuring devices, combustible gas indicators, and linear measurement devices; the operation and maintenance of the appropriate test equipment used in calibration facilities, following the procedures and specifications outlined by the Metrology Engineering Center, NAVSEASYSKOM; chemicals and chemicals handling; principles of soldering and brazing, and manufacture of special parts and tools; purpose, function, operation, repair, adjustment, and casualty analysis of electric typewriters, and liquid and stencil process duplicating machines.

### INTELLIGENCE SPECIALIST 1 & C

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82806  
SN: 0503-LP-217-9900 QR: 3  
ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-775-1100 QR: 1

### TRAMAN

EDITION: 1992  
NAVEDTRA NUMBER: 12806  
SN: 0502-LP-217-9800 QR: 3

DESCRIPTION: 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.  
Special Information: **WARNING!** These products are classified SECRET/WNINTEL/NOFORN.

### INTELLIGENCE SPECIALIST 3 & 2, VOLUME 1

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82804  
SN: 0503-LP-483-8300 QR: 3  
ASSIGNMENTS: 9 POINTS: 14

ANSWER KEY SN: 0504-LP-778-0200 QR: 1

### TRAMAN

EDITION: 1996  
NAVEDTRA NUMBER: 12804  
SN: 0502-LP-483-8200 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

Special Information: **ATTENTION!** This course replaces the following courses:

*Intelligence Specialist 3 & 2, Vol 1, NAVEDTRA 10271-1, AND Intelligence Specialist 3 & 2, Vol 2, NAVEDTRA 10272/80272. When available, Intelligence Specialist 3 & 2, Vol 2, NAVEDTRA 12805/82805 will replace Intelligence Specialist 3 & 2, Vol 3, NAVEDTRA 10273/80273.*

### INTELLIGENCE SPECIALIST 3 & 2, VOLUME 3

NRTC

EDITION: 1990

NAVEDTRA NUMBER: 80273

SN: 0503-LP-219-7600 QR: 3

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-774-9400 QR: 1

TRAMAN

EDITION: 1990

NAVEDTRA NUMBER: 10273

SN: 0502-LP-219-5400 QR: 3

DESCRIPTION: Covers operational intelligence, operational intelligence processing, intelligence collection, methods of processing and disseminating intelligence, reporting methods and formats, U.S. naval forces and their missions, Soviet naval forces, Third World naval threats, and terrorism.

Special Information: **WARNING!** These products are classified SECRET/WNINTEL/NOFORN.

### INTERIOR COMMUNICATIONS ELECTRICIAN, VOLUME 1

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82160

SN: 0503-LP-479-5800 QR: 3

ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-775-6900 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12160

SN: 0502-LP-479-5700 QR: 3

DESCRIPTION: 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.

### INTERIOR COMMUNICATIONS ELECTRICIAN, VOLUME 2

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82161

SN: 0503-LP-476-5800 QR: 3

ASSIGNMENTS: 4 POINTS: 6

ERRATA #2

DATED: 1997

SN: 0503-LP-476-5802 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ANSWER KEY SN: 0504-LP-775-7000 QR: 1

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12161  
SN: 0502-LP-476-5700 QR: 3

DESCRIPTION: 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.

### INTERIOR COMMUNICATIONS ELECTRICIAN, VOLUME 3

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82162  
SN: 0503-LP-218-4600 QR: 3  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-775-7100 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12162  
SN: 0502-LP-218-4400 QR: 3

DESCRIPTION: 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.

### INTRODUCTION TO PROGRAMMING IN BASIC

TRAMAN/NRTC  
EDITION: 1983  
NAVEDTRA NUMBER: 10079-2  
SN: 0502-LP-050-3970 QR: 5  
ASSIGNMENTS: 2 POINTS: 3

ERRATA #1 DATED: 1990  
SN: 0502-LP-050-3971 QR: 5

ANSWER KEY SN: 0504-LP-776-3400 QR: 1

DESCRIPTION: Provides an introduction to computer programming and to the BASIC programming language. It includes BASIC instructions, rules, and sample problems. BASIC is a popular language for new programmers and casual computer users. Its use of near English words and mathematical expressions gives the coding a familiar appearance. No prior computer experience is required. The text has end-of-chapter questions and practice problems with answers.

### INTRODUCTION TO THE DEPARTMENT OF THE NAVY INFORMATION AND PERSONNEL SECURITY PROGRAM

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 13080  
SN: 0503-LP-481-2300 QR: 3  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9308  
SN: 0503-LP-481-2301 QR: 3

ANSWER KEY SN: 0504-LP-777-5400 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Provides the student with a basic introduction into the Navy Information and Personnel Security Program, as outlined in OPNAVINST 5510.1H. The emphasis of this course is on the operational requirements involved with classified material. The student will understand the importance of protecting classified information from unauthorized disclosure and the procedures that must be followed when working in security sensitive areas.

Special Information: The text for this course, *Department of the Navy Information and Personnel Security Program*, OPNAVINST 5510.1H, is NOT supplied and must be obtained by the student.

### JOURNALIST 1 & C

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82706

SN: 0503-LP-218-9200 QR: 3

ASSIGNMENTS: 9 POINTS: 15

ANSWER KEY SN: 0504-LP-776-8900 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12706

SN: 0502-LP-218-9100 QR: 3

ERRATA #1 DATED: 1992

SN: 0502-LP-218-9101 QR: 3

DESCRIPTION: Describes the principles of accomplishing the following tasks: managing a public affairs office, public affairs in adverse news situations; operating a command information bureau (CIB); dealing with the mass media; developing and implementing a community relations program; planning and staging special events; preparing and giving speeches; operating a speakers bureau; managing the staff of a civilian enterprise (CE) or funded newspaper; managing a Navy Broadcasting Service (NBS) detachment; and conducting audience surveys.

### JOURNALIST 3 & 2

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82704

SN: 0503-LP-478-3200 QR: 3

ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-776-8800 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12704

SN: 0502-LP-478-3100 QR: 3

DESCRIPTION: Covers the Navy Journalist in terms of the following subject matter areas: basic news writing; writing the feature, speech, sports and accident stories; writing for magazines; advance stories, follow-ups and rewrites; copy editing; gathering and disseminating Navy news; printing, layout and makeup; writing headlines and outlines; libel, right of privacy, freedom of information and copyright; basic photography; basic photojournalism; radio; television; radio and television interviewing; public affairs office operations; and home town news.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### LEGALMAN 1 & C

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82609  
SN: 0503-LP-221-8800 QR: 3  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-2200 QR: 1

### LEGALMAN

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12609  
SN: 0502-LP-221-8300 QR: 3

DESCRIPTION: Covers drafting correspondence; instructions and notices; legal research; pretrial confinement procedures; chain of custody procedures; review of charge sheets; interviewing witnesses; administrative discharge warnings; service of process and subpoenas; claims; administrative investigations; office organization and management; and letters of indebtedness.

### LEGALMAN 3 & 2

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 72609  
SN: 0503-LP-221-8400 QR: 3  
ASSIGNMENTS: 9 POINTS: 13

ANSWER KEY SN: 0504-LP-775-9700 QR: 1

### LEGALMAN

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12609  
SN: 0502-LP-221-8300 QR: 3

DESCRIPTION: Covers general administration and security; the law library; court reporting; constitutional considerations; nonjudicial punishment; pretrial matters; court-martial trials; posttrial duties and the review process; administrative separations; delivery of personnel; and legal assistance.

### LITHOGRAPHER 1 & C

NRTC  
EDITION: 1987  
NAVEDTRA NUMBER: 80452  
SN: 0503-LP-500-3520 QR: 3  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-4900 QR: 1

### LITHOGRAPHER

TRAMAN  
EDITION: 1987  
NAVEDTRA NUMBER: 10451  
SN: 0502-LP-052-2600 QR: 3

DESCRIPTION: Contains information on the following topics: Cold-type composition, photographic materials, production of line negatives, the offset press, the 19- by 25-inch Harris offset press, maintenance of lithographic equipment, pressroom troubles, administration of reproduction, techniques of supervision, and photographic problems.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### LITHOGRAPHER 3 & 2

NRTC  
EDITION: 1987  
NAVEDTRA NUMBER: 80451  
SN: 0503-LP-500-3510 QR: 3  
ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-776-4800 QR: 1

### LITHOGRAPHER

TRAMAN  
EDITION: 1987  
NAVEDTRA NUMBER: 10451  
SN: 0502-LP-052-2600 QR: 3

DESCRIPTION: Contains information on the following topics: The Navy Lithographer, planning reproduction, cold-type composition, artwork preparation, photographic equipment, photographic materials, production of line negatives, production of halftone negatives, stripping and negative correction, platemaking, the offset press, Multilith presses, the A. B. Dick offset duplicator, the 19- by 25- inch Harris offset press, paper and ink, and bindery equipment.

### LOOKOUT TRAINING HANDBOOK

SP  
EDITION: 1991  
NAVEDTRA NUMBER: 12968  
SN: 0502-LP-214-2800 QR: 12

DESCRIPTION: 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.

### MACHINERY REPAIRMAN 2, 1 & C

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82204-A  
SN: 0503-LP-477-5800 QR: 3  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-775-7400 QR: 1

### MACHINERY REPAIRMAN

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12204-A  
SN: 0502-LP-477-5600 QR: 3

DESCRIPTION: Covers the tools, shop equipment, and methods commonly used by an MR2, MR1, and MRC in the operation of a Navy machine shop.

### MACHINERY REPAIRMAN 3

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 72204  
SN: 0503-LP-477-5700 QR: 3  
ASSIGNMENTS: 7 POINTS: 11

ERRATA #1 DATED: 9405  
SN: 0503-LP-477-5701 QR: 3

ANSWER KEY SN: 0504-LP-775-4500 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### MACHINERY REPAIRMAN

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12204-A  
SN: 0502-LP-477-5600 QR: 3

DESCRIPTION: Covers the tools, shop equipment, and methods commonly used by an MR3 in the operation of a Navy machine shop.

### MACHINIST'S MATE 1 & C (SURFACE)

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82145  
SN: 0503-LP-002-1510 QR: 8  
ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-002-1540 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12145  
SN: 0502-LP-002-1490 QR: 8

DESCRIPTION: 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.

### MACHINIST'S MATE 3 & 2 (SURFACE)

NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 82146  
SN: 0503-LP-007-8190 QR: 8  
ASSIGNMENTS: 13 POINTS: 20

ANSWER KEY SN: 0504-LP-007-8210 QR: 1

TRAMAN  
EDITION: 1997  
NAVEDTRA NUMBER: 12146  
SN: 0502-LP-007-8180 QR: 8

DESCRIPTION: 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.

### MACHINIST'S MATE 3 & 2

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82144  
SN: 0503-LP-215-9700 QR: 5  
ASSIGNMENTS: 8 POINTS: 16

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ERRATA #1 DATED: 9409  
SN: 0503-LP-215-9701 QR: 5

ANSWER KEY SN: 0504-LP-775-6300 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12144  
SN: 0502-LP-215-9600 QR: 5

DESCRIPTION: Provides information on the following subjects: steam turbines, reduction gears, lubrication, pumps, heat exchangers, air ejectors, engine room operating procedures, engineering administration, steam operated distilling plants, piping, valves, gaskets, packing, refrigeration, air conditioning, compressed air systems, and auxiliary equipment.

### MANAGEMENT FUNDAMENTALS: A GUIDE FOR SENIOR AND MASTER CHIEF PETTY OFFICERS

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80049  
SN: 0503-LP-212-8700 QR: 3  
ASSIGNMENTS: 3 POINTS: 4

ANSWER KEY SN: 0504-LP-776-4300 QR: 1

TRAMAN  
EDITION: 1990  
NAVEDTRA NUMBER: 10049  
SN: 0502-LP-212-8600 QR: 3

DESCRIPTION: Consists of a separate text and nonresident training course covering the basics of current management theory. Topics include the following information: introduction to management--planning, organizing, and decision making; controlling; personnel management; administration; leadership and motivation; communication; and programs and policies.

### MASTER-AT-ARMS

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82740  
SN: 0503-LP-478-7100 QR: 3  
ASSIGNMENTS: 19 POINTS: 29

ERRATA #1 DATED: 9703  
SN: 0503-LP-478-7101 QR: 3

ANSWER KEY SN: 0504-LP-776-3100 QR: 1

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12740  
SN: 0502-LP-478-6900 QR: 3

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### MATHEMATICS, PART I

NRTC

EDITION: 1978

NAVEDTRA NUMBER: 10448-3

SN: 0502-LP-052-2540 QR: 15

ASSIGNMENTS: 11 POINTS: 22

ANSWER KEY SN: 0504-LP-777-2700 QR: 1

### MATHEMATICS, VOLUME 1

TRAMAN

EDITION: 1985

NAVEDTRA NUMBER: 10069-D1

SN: 0502-LP-050-3460 QR: 15

**DESCRIPTION:** 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.

**Special Information:** 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.

### MATHEMATICS, VOLUME 2-A

NRTC

EDITION: 1989

NAVEDTRA NUMBER: 80062

SN: 0503-LP-478-9900 QR: 5

ASSIGNMENTS: 4 POINTS: 11

ANSWER KEY SN: 0504-LP-777-2900 QR: 1

TRAMAN

EDITION: 1989

NAVEDTRA NUMBER: 10062

SN: 0502-LP-215-3700 QR: 5

**DESCRIPTION:** 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.

**Special Information:** Successful completion of Mathematics, Part 1 or equivalent classroom courses in the fundamentals of algebra and trigonometry is strongly recommended prior to enrollment.

### MATHEMATICS, VOLUME 2-B

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80063

SN: 0503-LP-479-0100 QR: 5

ASSIGNMENTS: 5 POINTS: 12

ANSWER KEY SN: 0504-LP-777-3000 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10063

SN: 0502-LP-215-6700 QR: 5

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

Special Information: Successful completion of Mathematics, Part 1 and Mathematics, Volume 2-A or equivalent classroom courses in the fundamentals of algebra and trigonometry is strongly recommended prior to enrollment.

### MATHEMATICS, PART III

NRTC

EDITION: 1977

NAVEDTRA NUMBER: 10450-A1

SN: 0503-LP-479-0500 QR: 5

ASSIGNMENTS: 5 POINTS: 14

ANSWER KEY SN: 0504-LP-777-2800 QR: 1

### MATHEMATICS, VOLUME 3

TRAMAN

EDITION: 1986

NAVEDTRA NUMBER: 10073-A1

SN: 0502-LP-050-3655 QR: 5

DESCRIPTION: 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.

Special Information: Successful completion of Mathematics, Part 1 or equivalent classroom courses prior to enrollment is strongly recommended.

### MESS MANAGEMENT SPECIALIST 1 & C

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 82662

SN: 0503-LP-221-8200 QR: 5

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-3000 QR: 1

### MESS MANAGEMENT SPECIALIST

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: 12662

SN: 0502-LP-221-8100 QR: 5

DESCRIPTION: Covers investigating causes of food spoilage and damage; inspection and date stamping of food items upon receipt; preparation of dummy receipts; preparation of documents for expenditure of food items; preparation of the Food-Preparation Worksheet; menu planning; foodservice administration; and foodservice management.

### MESS MANAGEMENT SPECIALIST 3 & 2

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 72662

SN: 0503-LP-478-1600 QR: 5

ASSIGNMENTS: 8 POINTS: 12

ANSWER KEY SN: 0504-LP-775-9800 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### MESS MANAGEMENT SPECIALIST

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12662  
SN: 0502-LP-221-8100 QR: 5

DESCRIPTION: Covers sanitation; receipt, inspection, expenditure, and storage of food items; accounting; foodservice equipment; food preparation; meat, poultry, and seafood; nutrition and menu planning; breads and desserts; foodservice; quarters afloat and ashore; and field kitchens.

### MILITARY REQUIREMENTS FOR SENIOR AND MASTER CHIEF PETTY OFFICER

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82048  
SN: 0503-LP-217-0800 QR: 8  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-6900 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12048  
SN: 0502-LP-217-0700 QR: 8

DESCRIPTION: Provides subject matter related to the military qualifications of all senior and master chief petty officers. Provides information on Department of Defense organization, senior and master chiefs as principal enlisted advisors, organizational responsibility, management process, safety and training, resource management, inspections, directives, reports, and messages.

### MILITARY REQUIREMENTS FOR CHIEF PETTY OFFICER

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82047  
SN: 0503-LP-216-0400 QR: 12  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-6800 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12047  
SN: 0502-LP-216-0300 QR: 12

DESCRIPTION: 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.

### MILITARY REQUIREMENTS FOR PETTY OFFICER FIRST CLASS

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82046  
SN: 0503-LP-216-2300 QR: 15  
ASSIGNMENTS: 7 POINTS: 11

ERRATA #1 DATED: 9709  
SN: 0503-LP-216-2301 QR: 15

ANSWER KEY SN: 0504-LP-776-6700 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12046  
SN: 0502-LP-216-2200 QR: 15

ERRATA #1 DATED: 9709  
SN: 0502-LP-216-2201 QR: 15

DESCRIPTION: 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.

### MILITARY REQUIREMENTS FOR PETTY OFFICER SECOND CLASS

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82045  
SN: 0503-LP-215-7300 QR: 18  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-776-6600 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12045  
SN: 0502-LP-215-7200 QR: 18

DESCRIPTION: Provides subject matter related to the military requirements for all petty officers second class. Included are discussions on naval organization; leadership programs and policies; professional development; training; personnel safety; chemical, biological, and radiological defense; damage control; and security requirements.

### MILITARY REQUIREMENTS FOR PETTY OFFICER THIRD CLASS

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82044  
SN: 0503-LP-216-2100 QR: 20  
ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-776-6500 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12044  
SN: 0502-LP-216-1400 QR: 20

DESCRIPTION: Provides subject matter related to the military qualifications of all petty officers third class. Included are discussions on sea power; leadership and supervision; military conduct and justice; human resources; professional development; military requirements; personnel safety; damage control; chemical, biological, and radiological defense; surface preservation; the ships' 3-M systems; and supply procedures.

### MILITARY REQUIREMENTS, BASIC (BMR)

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82043  
SN: 0503-LP-216-0800 QR: 25  
ASSIGNMENTS: 9 POINTS: 14

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ERRATA #1 DATED: 1996  
SN: 0503-LP-216-0801 QR: 25

ANSWER KEY SN: 0504-LP-776-6400 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12043  
SN: 0502-LP-216-0700 QR: 25

ERRATA #1 DATED: 1993  
SN: 0502-LP-216-0701 QR: 25

DESCRIPTION: Provides subject matter related to all nonrated personnel. Provides information on our heritage; naval history; naval organization; customs and courtesies; policies and programs; human resources; naval uniforms; professional development; drill; naval ships and aircraft; safety; seamanship; damage control; chemical, biological, and radiological defense; surface preservation; small arms; survival; first aid and personal hygiene; watch standing and communications; security requirements; and international agreements.

### **MINEMAN, VOLUME 1**

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82448  
SN: 0503-LP-477-6300 QR: 3  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-4100 QR: 1

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12448  
SN: 0502-LP-477-6200 QR: 3

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

### **MINEMAN, VOLUME 2 (MN 1 & C)**

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82449  
SN: 0503-LP-478-5900 QR: 3  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-4300 QR: 1

### **MINEMAN, VOLUME 2**

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12449  
SN: 0502-LP-478-5800 QR: 3

DESCRIPTION: This course is designed to provide supervisory information concerning administrative functions and supply procedures as they relate to the Mine Force.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### **MINEMAN, VOLUME 2 (MN 3 & 2)**

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 72449  
SN: 0503-LP-479-2500 QR: 3  
ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-4200 QR: 1

### **MINEMAN, VOLUME 2**

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12449  
SN: 0502-LP-478-5800 QR: 3

DESCRIPTION: This course is designed to provide a basic overview of the administrative functions and supply procedures that relate to the Mine Force.

### **MINEMAN, VOLUME 3 (MN 1 & C)**

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82450  
SN: 0503-LP-479-4300 QR: 3  
ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-4500 QR: 1

### **MINEMAN, VOLUME 3**

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12450  
SN: 0502-LP-479-4100 QR: 3

DESCRIPTION: Provides the supervisor with information regarding the mine maintenance system and its reporting requirements. Provides information on the proper handling of mines and explosive materials with regard to quantity-distance requirements.

### **MINEMAN, VOLUME 3 (MN 3 & 2)**

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 72450  
SN: 0503-LP-479-4200 QR: 3  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-777-4400 QR: 1

### **MINEMAN, VOLUME 3**

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12450  
SN: 0502-LP-479-4100 QR: 3

DESCRIPTION: Provides the basic overview of the mine maintenance system and the reporting requirements associated with mines. Identifies the causes of corrosion and the common types of materials and equipment used to prevent and protect mines against corrosion. Provides information on the handling and storage of mines and explosives, with the use of various types of handling gear.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### MINEMAN, VOLUME 4 (MN 3 & 2)

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82451  
SN: 0503-LP-479-4500 QR: 3  
ASSIGNMENTS: 3 POINTS: 5

ERRATA #1 DATED: 1996  
SN: 0503-LP-479-4501 QR: 3

ANSWER KEY SN: 0504-LP-777-3700 QR: 1

### MINEMAN, VOLUME 4

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12451  
SN: 0502-LP-479-4400 QR: 3

DESCRIPTION: Describes the characteristics and operational use of Mines Mk 36, 40, 56, 60, 62, 63, 65, and 67.

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### MINEMAN, VOLUME 5 (MN 3 & 2)

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82452  
SN: 0503-LP-480-1100 QR: 3  
ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-4600 QR: 1

### MINEMAN, VOLUME 5

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12452  
SN: 0502-LP-480-0900 QR: 3

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

### MINEMAN, VOLUME 6

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12453  
SN: 0502-LP-013-0780 QR: 3  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-013-0790 QR: 1

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

Special Information: **WARNING!** These products are classified CONFIDENTIAL.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### MINEMAN, VOLUME 7

TRAMAN/NRTC

EDITION: 1998

NAVEDTRA NUMBER: 12454

SN: 0502-LP-013-0810 QR: 3

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-013-0820 QR: 1

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

### MOLDER 3 & 2

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82207

SN: 0503-LP-477-3600 QR: 3

ASSIGNMENTS: 15 POINTS: 22

ANSWER KEY SN: 0504-LP-775-7500 QR: 1

### PATTERNMAKER/MOLDER

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12207

SN: 0502-LP-477-3300 QR: 3

DESCRIPTION: Provides information about the operation of foundry operation aboard ships and at shore stations, emphasizing the following areas: installed shop equipment, handtools and power tools, foundry equipment, furnaces, molds and mold construction, coremaking, metals and alloys, casting techniques, and heat treatment of castings. Wood joinery and finishing, patternmaking structural materials, blueprints and layout, math, pattern equipment and construction are also covered.

### NAVAL CONSTRUCTION FORCE/SEABEE 1 & C

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82543

SN: 0503-LP-479-5100 QR: 5

ASSIGNMENTS: 8 POINTS: 12

ERRATA #2 DATED: 9705

SN: 0503-LP-479-5102 QR: 5

ANSWER KEY SN: 0504-LP-777-6500 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12543

SN: 0502-LP-479-4900 QR: 5

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### NAVAL ORIENTATION

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82966  
SN: 0503-LP-481-2200 QR: 5  
ASSIGNMENTS: 12 POINTS: 24

ERRATA #2 DATED: 9709  
SN: 0503-LP-481-2202 QR: 5

ANSWER KEY SN: 0504-LP-774-8000 QR: 1

### TRAMAN

EDITION: 1991  
NAVEDTRA NUMBER: 12966  
SN: 0502-LP-213-4100 QR: 5

DESCRIPTION: Familiarizes newly commissioned officers and various officer accession program personnel with the rules, customs, and traditions of the Navy.

### NAVAL POSTAL OFFICER

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82649  
SN: 0503-LP-478-0800 QR: 3  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-776-2500 QR: 1

### TRAMAN

EDITION: 1994  
NAVEDTRA NUMBER: 12649  
SN: 0502-LP-478-0700 QR: 3

DESCRIPTION: Provides those assigned as collateral duty postal officers at commands where postal expertise is limited, with the information needed to manage and when necessary supervise their command's operations.

### NAVAL SAFETY SUPERVISOR

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82971  
SN: 0503-LP-477-0600 QR: 5  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #1 DATED: 9801  
SN: 0503-LP-477-0601 QR: 5

ANSWER KEY SN: 0504-LP-775-8800 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### TRAMAN

EDITION: 1993  
NAVEDTRA NUMBER: 12971  
SN: 0502-LP-477-0400 QR: 5

DESCRIPTION: 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.

### NAVAL SPACE

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82961  
SN: 0503-LP-478-3300 QR: 3  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #1 DATED: 9804  
SN: 0503-LP-478-3301 QR: 3

ANSWER KEY SN: 0504-LP-775-8500 QR: 1

### TRAMAN

EDITION: 1993  
NAVEDTRA NUMBER: 12961  
SN: 0502-LP-217-8600 QR: 3

ERRATA #1 DATED: 8608  
SN: 0502-LP-217-8601 QR: 3

DESCRIPTION: Covers the historical developments of the Naval Space Program and the current civil and military space organizations. It contains chapters on space environment, orbital mechanics, launch vehicle operations and processing, space systems engineering and operations, and the tactical use of space. It also includes a chapter on the space program of the former Soviet Union.

### NAVY ADMIRALTY LAW PRACTICE

NRTC  
EDITION: 1989  
NAVEDTRA NUMBER: 10725-B  
SN: 0503-LP-481-2100 QR: 3  
ASSIGNMENTS: 2 POINTS: 4

ANSWER KEY SN: 0504-LP-777-5500 QR: 1

DESCRIPTION: Provides a practical guide to the action necessary to protect the interests of the government when an officer is confronted with, or involved in, a situation out of which an admiralty claim may arise. Also explains, in brief, the viewpoint, practices, procedures, and general responsibilities of the Navy in admiralty matters.

Special Information: The texts for this course, *Manual of Judge Advocate General*, JAGINST 5800.7B, Chapter 12 and Appendix A-12a, with change 7 incorporated, and *Admiralty Law and Its Application in Navy Claims Practice: A Primer* by LCDR Kevin P. McMahan, JAGC, USN, are included in the course.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### NAVY COUNSELOR (C) 1 & C

NRTC

EDITION: 1997

NAVEDTRA NUMBER: 13068-A

SN: 0503-LP-013-0150 QR: 3

ASSIGNMENTS: 3 POINTS: 4

ANSWER KEY SN: 0504-LP-013-0160 QR: 1

DESCRIPTION: Covers the role and scope of the retention team and the duties and responsibilities of team members. Provides a broad review of the following subjects: counseling techniques, enlisted and officer counseling, career reenlistment objective (CREO), incentive programs, education programs, commissioning programs, Naval Reserve programs, Uniformed Service Health Benefits Program (USHBP), survivors benefits, veterans benefits, family counseling, and Fleet Reserve and retirement. Special Information: The text for this NRTC, *Retention Team Manual* (NAVPERS 15878H), is NOT supplied with the course and must be obtained by the student.

### NAVY COUNSELOR (R) 1 & C

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82620

SN: 0503-LP-480-4100 QR: 3

ASSIGNMENTS: 7 POINTS: 11

ERRATA #1 DATED: 9807

SN: 0503-LP-480-4101 QR: 3

ANSWER KEY SN: 0504-LP-776-1600 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12620

SN: 0502-LP-480-3900 QR: 3

DESCRIPTION: 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.

### NAVY CUSTOMER SERVICE MANUAL

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82972

SN: 0503-LP-477-3800 QR: 10

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-776-3200 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12972

SN: 0502-LP-477-3700 QR: 10

DESCRIPTION: Presents the importance of proper attitude and its effect on everyday performance and stresses the need for developing positive attitudes in interpersonal relationships.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### NAVY INSTRUCTIONAL THEORY

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 834

SN: 0503-LP-481-2400 QR: 3

ASSIGNMENT: 5 POINTS: 8

ERRATA #1 DATED: 9509

SN: 0503-LP-481-2401 QR: 3

ANSWER KEY.SN: 0504-LP-774-9100 QR: 1

### NAVY INSTRUCTOR MANUAL

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 134

SN: 0502-LP-219-8800 QR: 3

ERRATA #1 DATED: 9509

SN: 0502-LP-219-8801 QR: 3

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

NOTICE

NOTICE

NOTICE

All 24 NEETS Modules are now available on CD-ROM. The new NEETS CD, NAVEDTRA 11100-A, may be ordered using stock number 0507-LP-013-7070. The per order quantity restriction (QR) is 10.

Automatic distribution of this NEETS CD is being made to general libraries ashore and afloat learning multimedia resource centers (LMRC).

### Navy Electricity and Electronics Training Series (NEETS)

#### NEETS, MODULE 1--INTRODUCTION TO MATTER, ENERGY, AND DIRECT CURRENT

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 173-01-00-88

SN: 0507-LP-214-1300 QR: 10

ASSIGNMENTS: 3 POINTS: 6

ANSWER KEY SN: 0504-LP-775-3400 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-01-00-92

SN: 0507-LP-217-7300 QR: 10

DESCRIPTION: 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.

#### NEETS, MODULE 2--INTRODUCTION TO ALTERNATING CURRENT AND TRANSFORMERS

TRAMAN/NRTC

EDITION: 1991

NAVEDTRA NUMBER: 172-02-00-91

SN: 0507-LP-216-2900 QR: 10

ASSIGNMENTS: 4 POINTS: 10

ANSWER KEY SN: 0504-LP-775-1600 QR: 1

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### NEETS, MODULE 3--INTRODUCTION TO CIRCUIT PROTECTION, CONTROL, AND MEASUREMENT

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 172-03-00-93

SN: 0507-LP-477-6800 QR: 10

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-775-1700 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: B72-03-00-93

SN: 0507-LP-477-6700 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 4--INTRODUCTION TO ELECTRICAL CONDUCTORS, WIRING TECHNIQUES AND SCHEMATIC READING

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 172-04-00-92

SN: 0507-LP-217-8400 QR: 10

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-775-1800 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-04-00-92

SN: 0507-LP-217-8300 QR: 10

ERRATA #1 DATED: 9505

SN: 0507-LP-217-8301 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 5--INTRODUCTION TO GENERATORS AND MOTORS

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 172-05-00-94

SN: 0507-LP-478-1500 QR: 10

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-775-1900 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: B72-05-00-94

SN: 0507-LP-478-1400 QR: 10

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

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### NEETS, MODULE 6--INTRODUCTION TO ELECTRONIC EMISSION, TUBES, AND POWER SUPPLIES

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 172-06-00-92

SN: 0507-LP-217-8100 QR: 10

ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-775-2000 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-06-00-92

SN: 0507-LP-217-7900 QR: 10

ERRATA #1 DATED: 9312

SN: 0507-LP-217-7901 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 7--INTRODUCTION TO SOLID-STATE DEVICES AND POWER SUPPLIES

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 172-07-00-92

SN: 0507-LP-218-7600 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-2100 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: B72-07-00-92

SN: 0507-LP-218-7400 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 8--INTRODUCTION TO AMPLIFIERS

NRTC

EDITION: 1987

NAVEDTRA NUMBER: 173-08-00-87

SN: 0507-LP-173-0805 QR: 10

ASSIGNMENTS: 2 POINTS: 4

ERRATA #1 DATED: 9501

SN: 0507-LP-173-0806 QR: 10

ANSWER KEY SN: 0504-LP-775-3500 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN

EDITION: 1982

NAVEDTRA NUMBER: 172-08-00-82

SN: 0507-LP-172-0800 QR: 10

ERRATA #1

DATED: 9501

SN: 0507-LP-172-0801 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 9--INTRODUCTION TO WAVE-GENERATION AND WAVE-SHAPING CIRCUITS

NRTC

EDITION: 1985

NAVEDTRA NUMBER: 173-09-00-85

SN: 0507-LP-173-0905 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ERRATA #1

DATED: 9411

SN: 0507-LP-173-0906 QR: 10

ANSWER KEY SN: 0504-LP-775-3600 QR: 1

TRAMAN

EDITION: 1983

NAVEDTRA NUMBER: 172-09-00-83

SN: 0507-LP-172-0900 QR: 10

ERRATA #1

DATED: 9411

SN: 0507-LP-172-0901 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 10--INTRODUCTION TO WAVE PROPAGATION, TRANSMISSION LINES, AND ANTENNAS

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 172-10-00-93

SN: 0507-LP-220-6800 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-2200 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: B72-10-00-93

SN: 0507-LP-220-4700 QR: 10

DESCRIPTION: 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-

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

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.

### NEETS, MODULE 11--MICROWAVE PRINCIPLES

NRTC  
EDITION: 1985  
NAVEDTRA NUMBER: 173-11-00-85  
SN: 0507-LP-173-1105 QR: 10  
ASSIGNMENTS: 2 POINTS: 6

ERRATA #1 DATED: 9501  
SN: 0507-LP-173-1106 QR: 10

ANSWER KEY SN: 0504-LP-775-3700 QR: 1

TRAMAN

EDITION: 1987  
NAVEDTRA NUMBER: 172-11-00-87  
SN: 0507-LP-172-1105 QR: 10

ERRATA #1 DATED: 9501  
SN: 0507-LP-172-1106 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 12--MODULATION PRINCIPLES

TRAMAN/NRTC  
EDITION: 1983  
NAVEDTRA NUMBER: 172-12-00-83  
SN: 0507-LP-172-1200 QR: 10  
ASSIGNMENTS: 3 POINTS: 7

ERRATA #1 DATED: 9502  
SN: 0507-LP-172-1201 QR: 10

ANSWER KEY SN: 0504-LP-775-2300 QR: 1

DESCRIPTION: 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.

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

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 172-13-00-94  
SN: 0507-LP-479-5500 QR: 10  
ASSIGNMENTS: 4 POINTS: 6

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ANSWER KEY SN: 0504-LP-775-2400 QR: 1

TRAMAN

EDITION: 1994

NAVEDTRA NUMBER: B72-13-00-94

SN: 0507-LP-479-5400 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 14--INTRODUCTION TO MICROELECTRONICS

TRAMAN/NRTC

EDITION: 1984

NAVEDTRA NUMBER: 172-14-00-84

SN: 0507-LP-172-1400 QR: 10

ASSIGNMENTS: 2 POINTS: 4

ANSWER KEY SN: 0504-LP-775-2500 QR: 1

DESCRIPTION: 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.

### NEETS, MODULE 15--PRINCIPLES OF SYNCHROS, SERVOS, AND GYROS

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 172-15-00-93

SN: 0507-LP-476-6100 QR: 10

ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-775-2600 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: B72-15-00-93

SN: 0507-LP-476-5900 QR: 10

ERRATA #1 DATED: 9311

SN: 0507-LP-476-5901 QR: 10

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### NEETS, MODULE 16--INTRODUCTION TO TEST EQUIPMENT

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 172-16-00-96  
SN: 0507-LP-481-2800 QR: 10  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-777-8800 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: B72-16-00-96  
SN: 0507-LP-481-2700 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 17--RADIO-FREQUENCY COMMUNICATIONS PRINCIPLES

TRAMAN/NRTC  
EDITION: 1984  
NAVEDTRA NUMBER: 172-17-00-84  
SN: 0507-LP-172-1700 QR: 10  
ASSIGNMENTS: 3 POINTS: 7

ANSWER KEY SN: 0504-LP-775-2800 QR: 1

DESCRIPTION: 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.

### NEETS, MODULE 18--RADAR PRINCIPLES

TRAMAN/NRTC  
EDITION: 1984  
NAVEDTRA NUMBER: 172-18-00-84  
SN: 0507-LP-172-1800 QR: 10  
ASSIGNMENTS: 3 POINTS: 7

ANSWER KEY SN: 0504-LP-775-2900 QR: 1

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### NEETS, MODULE 19--THE TECHNICIAN'S HANDBOOK

SP  
EDITION: 1992  
NAVEDTRA NUMBER: B72-19-00-92  
SN: 0507-LP-218-5600 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 20--MASTER GLOSSARY AND INDEX

SP  
EDITION: 1985  
NAVEDTRA NUMBER: 172-20-00-85  
SN: 0507-LP-172-2000 QR: 10

DESCRIPTION: Provides a ready reference source for the NEETS student. It begins with an alphabetized master glossary of the terms used throughout the NEETS. The second half of the module provides an alphabetized master index of subjects, terms, headings, and emphasized areas found throughout the NEETS. The listing is cross-indexed and broken-down to topic and page.

### NEETS, MODULE 21--TEST METHODS AND PRACTICES

NRTC  
EDITION: 1987  
NAVEDTRA NUMBER: 172-21-00-87  
SN: 0507-LP-172-2105 QR: 10  
ASSIGNMENTS: 3 POINTS: 9

ERRATA #1 DATED: 9511  
SN: 0507-LP-172-2106 QR: 10

ANSWER KEY SN: 0504-LP-775-3000 QR: 1

### TRAMAN

EDITION: 1987  
NAVEDTRA NUMBER: B72-21-00-87  
SN: 0507-LP-172-2100 QR: 10

ERRATA #1 DATED: 9511  
SN: 0507-LP-172-2101 QR: 10

DESCRIPTION: 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."

### NEETS, MODULE 22--INTRODUCTION TO DIGITAL COMPUTERS

NRTC  
EDITION: 1988  
NAVEDTRA NUMBER: 172-22-00-88  
SN: 0507-LP-215-1900 QR: 10  
ASSIGNMENTS: 4 POINTS: 4

ANSWER KEY SN: 0504-LP-775-3100 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN  
EDITION: 1988  
NAVEDTRA NUMBER: B72-22-00-88  
SN: 0507-LP-214-9600 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 23--MAGNETIC RECORDING

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 172-23-00-91  
SN: 0507-LP-215-8800 QR: 10  
ASSIGNMENTS: 2 POINTS: 2

ANSWER KEY SN: 0504-LP-775-3200 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: B72-23-00-91  
SN: 0507-LP-215-7900 QR: 10

DESCRIPTION: 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.

### NEETS, MODULE 24--INTRODUCTION TO FIBER OPTICS

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 172-24-00-92  
SN: 0507-LP-218-0200 QR: 10  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-3300 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: B72-24-00-92  
SN: 0507-LP-218-0100 QR: 10

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### OFFICIAL MAIL MANAGEMENT

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12053  
SN: 0502-LP-003-7160 QR: 3  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-003-7170 QR: 1

DESCRIPTION: 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.

### OPERATIONS SPECIALIST 1 & C

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82126  
SN: 0503-LP-476-6300 QR: 3  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-774-9000 QR: 1

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12126  
SN: 0502-LP-476-6200 QR: 3

DESCRIPTION: 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.  
Special Information: **WARNING!** These products are classified NATO CONFIDENTIAL.

### OPERATIONS SPECIALIST 2

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80106  
SN: 0503-LP-212-9100 QR: 3  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9404  
SN: 0503-LP-212-9101 QR: 3

ANSWER KEY SN: 0504-LP-774-8900 QR: 1

TRAMAN  
EDITION: 1990  
NAVEDTRA NUMBER: 10106  
SN: 0502-LP-212-8900 QR: 3

DESCRIPTION: 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, antiair warfare, antisubmarine warfare, antisurface warfare, naval gunfire support, and tactical data systems.  
Special Information: **WARNING!** These products are classified CONFIDENTIAL.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### OPERATIONS SPECIALIST 3

NRTC  
EDITION: 1988  
NAVEDTRA NUMBER: 80105  
SN: 0503-LP-500-0050 QR: 3  
ASSIGNMENTS: 9 POINTS: 18

ERRATA #1 DATED: 9404  
SN: 0503-LP-500-0051 QR: 3

ANSWER KEY SN: 0504-LP-774-8800 QR: 1

TRAMAN  
EDITION: 1988  
NAVEDTRA NUMBER: 10105  
SN: 0502-LP-050-5200 QR: 3

DESCRIPTION: 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.  
Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### OPTICALMAN 1 & C

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82217  
SN: 0503-LP-214-5300 QR: 3  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-775-7600 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12217  
SN: 0502-LP-214-5200 QR: 3

DESCRIPTION: Covers administration and supervision of an optical ship; quality assurance procedures; optical alignment theory, equipment and procedures; overhaul work packages; optical calibration publications and records; submarine periscopes, types, configurations, systems maintenance, and removal and reassembly procedures.

### OPTICALMAN 2

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80215-A  
SN: 0503-LP-214-0800 QR: 3  
ASSIGNMENTS: 5 POINTS: 12

ANSWER KEY SN: 0504-LP-775-5000 QR: 1

### OPTICALMAN 3 & 2

TRAMAN  
EDITION: 1989  
NAVEDTRA NUMBER: 10215  
SN: 0502-LP-218-8200 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Provides follow-on knowledge to the Opticalman 3 NRTC in the theory and design of optical equipment. It also provides a follow-on knowledge concerning the overhaul, repair, and calibration procedures associated with telescopes, binoculars, navigation instruments, gunsights, rangefinders, periscopes, and night-vision sights.

### OPTICALMAN 3

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 70215-A  
SN: 0503-LP-214-0700 QR: 3  
ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-775-4100 QR: 1

### OPTICALMAN 3 & 2

TRAMAN  
EDITION: 1989  
NAVEDTRA NUMBER: 10215  
SN: 0502-LP-218-8200 QR: 3

DESCRIPTION: Provides a basic knowledge of the Opticalman rating and of the theory and design features associated with optical equipment. It also provides a basic understanding of the overhaul, repair, and calibration procedures associated with telescopes, binoculars, navigation instruments, gunsights, rangefinders, periscopes, and night-vision sights.

### PATTERNMAKER/MOLDER 1 & C

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 62207  
SN: 0503-LP-477-3400 QR: 3  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-775-3900 QR: 1

### PATTERNMAKER/MOLDER

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12207  
SN: 0502-LP-477-3300 QR: 3

DESCRIPTION: Provides the supervisor information on the operation of pattern shop and foundry operation aboard ships and at shore stations. Coverage includes installed shop equipment and tools usage; wood joinery and finishing; patternmaking to include wood joinery and finishing and structural materials; blueprints and layout; pattern equipment and construction, foundry equipment; molds and mold construction, including cores; metals and alloys; casting techniques and heat treatment of castings.

### PATTERNMAKER 3 & 2

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 72207  
SN: 0503-LP-477-3500 QR: 3  
ASSIGNMENTS: 12 POINTS: 22

ANSWER KEY SN: 0504-LP-775-4600 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### **PATTERNMAKER/MOLDER**

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12207

SN: 0502-LP-477-3300 QR: 3

DESCRIPTION: Provides information about the operation of pattern shop aboard ships and at shore stations, emphasizing the following areas: installed shop equipment, handtools and power tools, wood joinery and finishing, patternmaking structural materials, blueprints and layout, math, pattern equipment and construction. Foundry equipment, furnaces, molds and mold construction, coremaking, metals and alloys, casting techniques, and heat treatment of castings are also covered.

### **PERSONNELMAN 1 & C**

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82606

SN: 0503-LP-217-8800 QR: 5

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-776-2100 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12606

SN: 0502-LP-217-8700 QR: 5

DESCRIPTION: Covers office occupations and management; counseling service members; tuition assistance; enlisted advancement system; personnel casualty reports; manpower management; morale services; conferences and ceremonies.

### **PERSONNELMAN 3 & 2**

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82604

SN: 0503-LP-479-7700 QR: 5

ASSIGNMENTS: 15 POINTS: 23

ANSWER KEY SN: 0504-LP-777-8900 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12604

SN: 0502-LP-479-7600 QR: 5

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### PETTY OFFICER INDOCTRINATION COURSE, INSTRUCTOR'S GUIDE

SP  
EDITION: 1993  
NAVEDTRA NUMBER: 38201  
SN: 0502-LP-220-7400 QR: 10

DESCRIPTION: Designed as part of an on board training package in support of the Navy Leader Development Program to assist newly appointed petty officers third class in preparing for their new roles. The guide for the instructor includes all material covered in the Student's Journal in outline form plus suggested instructor activities and instructional notes.

### PETTY OFFICER INDOCTRINATION COURSE, STUDENT'S JOURNAL

SP  
EDITION: 1992  
NAVEDTRA NUMBER: 38200  
SN: 0502-LP-220-7300 QR: 100

DESCRIPTION: Designed as part of an on board training package in support of the Navy Leader Development Program to assist newly appointed petty officers third class in preparing for their new roles. The journal is a narrative text covering nine subject areas: Roles and Responsibilities of a Petty Officer, Developing Leadership and Management Skills, Basic Needs and Human Behavior, Communicating with Others, Standards in the Navy, Counseling, Discipline, Military Justice and the Petty Officer, Pride, Professionalism, and Personal Excellence.

### PHOTOGRAPHY (ADVANCED)

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 82701  
SN: 0503-LP-479-2900 QR: 3  
ASSIGNMENTS: 5 POINTS: 9

ANSWER KEY SN: 0504-LP-777-6000 QR: 1

### PHOTOGRAPHY (ADVANCED)

TRAMAN  
EDITION: 1995  
NAVEDTRA NUMBER: 12701  
SN: 0502-LP-479-2800 QR: 3

DESCRIPTION: 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.

### PHOTOGRAPHY (BASIC)

NRTC  
EDITION: 1993  
NAVEDTRA NUMBER: 82700  
SN: 0503-LP-219-0900 QR: 3  
ASSIGNMENTS: 10 POINTS: 15

ANSWER KEY SN: 0504-LP-776-8700 QR: 1

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12700  
SN: 0502-LP-219-0800 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

### POSTAL CLERK 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82602

SN: 0503-LP-219-3300 QR: 3

ASSIGNMENTS: 9 POINTS: 14

ANSWER KEY SN: 0504-LP-776-2000 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12602

SN: 0502-LP-219-3100 QR: 3

DESCRIPTION: Provides a general knowledge of the following subject areas: general postal administration; security; postal supplies and equipment; financial administration; managing postal meter operations; customer services, information, complaints, and inquiries; mail handling reports, inspections, and training, and the official mail management program.

### POSTAL CLERK 2

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80222

SN: 0503-LP-500-1220 QR: 3

ASSIGNMENTS: 4 POINTS: 3

ERRATA #2 DATED: 9312

SN: 0503-LP-500-1222 QR: 2

ANSWER KEY SN: 0504-LP-776-0300 QR: 1

TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10222

SN: 0502-LP-051-1100 QR: 3

DESCRIPTION: Covers the Military Postal Service, incoming mail procedures, mail routing, and post office management.

### POSTAL CLERK 3

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 80223

SN: 0503-LP-500-1230 QR: 3

ASSIGNMENTS: 16 POINTS: 16

ERRATA #4 DATED: 9308

SN: 0503-LP-500-1233 QR: 3

ANSWER KEY SN: 0504-LP-776-0400 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### TRAMAN

EDITION: 1988

NAVEDTRA NUMBER: 10223

SN: 0502-LP-051-1120 QR: 3

DESCRIPTION: Covers the Military Postal Service, mail packaging and acceptance, domestic mail rates and classifications, special services, international mail, money orders, fixed credit accounts and postage meter machines, outgoing mail, incoming mail, transportation of military mail, mail directory service, registered mail, audits, inspections, reports, and records, claims and inquiries, postal supplies and customs.

### PUBLIC AFFAIRS POLICY AND REGULATIONS

#### NRTC

EDITION: 1991

NAVEDTRA NUMBER: 13086

SN: 0503-LP-479-9500 QR: 3

ASSIGNMENTS: 9 POINTS: 20

ERRATA #1

DATED: 1992

SN: 0503-LP-479-9501 QR: 3

ANSWER KEY SN: 0504-LP-776-3800 QR: 1

DESCRIPTION: 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.

Special Information: 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.

### QUARTERMASTER 1 & C

#### NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82120

SN: 0503-LP-479-6700 QR: 3

ASSIGNMENTS: 6 POINTS: 9

ERRATA #1

DATED: 9703

SN: 0503-LP-479-6701 QR: 3

ANSWER KEY SN: 0504-LP-777-5900 QR: 1

### QUARTERMASTER

#### TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12120

SN: 0502-LP-479-6500 QR: 3

DESCRIPTION: Contains information on the following subject matter: magnetic compass error and preparing deviation tables, voyage planning, assisting the navigator, ship operation, and weather.

### QUARTERMASTER 3 & 2

#### NRTC

EDITION: 1995

NAVEDTRA NUMBER: 72120

SN: 0503-LP-479-6600 QR: 3

ASSIGNMENTS: 14 POINTS: 21

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

ERRATA #5 DATED: 9804  
SN: 0503-LP-479-6605 QR: 3

ANSWER KEY SN: 0504-LP-777-5800 QR: 1

### QUARTERMASTER

TRAMAN  
EDITION: 1995  
NAVEDTRA NUMBER: 12120  
SN: 0502-LP-479-6500 QR: 3

DESCRIPTION: Contains information on the following subject matter: phases of watchstanding, log keeping, honors and ceremonies. You will have a basic knowledge of piloting, time, navigational aids, supply and maintenance, radiotelephone communications, maneuvering board, and electronic and celestial navigation.

### RADIOMAN TRAINING SERIES, MODULE 1--ADMINISTRATION

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12845  
SN: 0502-LP-003-5230 QR: 5  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-003-5250 QR: 1

DESCRIPTION: 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.

### RADIOMAN TRAINING SERIES, MODULE 2--COMPUTER SYSTEMS

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12846  
SN: 0502-LP-012-8710 QR: 5  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-012-8720 QR: 1

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

### RADIOMAN TRAINING SERIES, MODULE 3--NETWORK COMMUNICATIONS

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12847  
SN: 0502-LP-012-8730 QR: 5  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-012-8740 QR: 1

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

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### RADIOMAN TRAINING SERIES, MODULE 4--COMMUNICATIONS HARDWARE

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12848  
SN: 0502-LP-012-8750 QR: 5  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-012-8760 QR: 1

DESCRIPTION: Provides information on the duties and responsibilities of the Radioman as they relate to communications hardware and satellites and antennas.

### RADIOMAN TRAINING SERIES, MODULE 5--COMMUNICATIONS CENTER OPERATIONS

TRAMAN/NRTC  
EDITION: 1997  
NAVEDTRA NUMBER: 12849  
SN: 0502-LP-012-8770 QR: 5  
ASSIGNMENTS: 2 POINTS: 3

ANSWER KEY SN: 0504-LP-012-8780 QR: 1

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

### RELIGIOUS PROGRAM SPECIALIST 1 & C

NRTC  
EDITION: 1986  
NAVEDTRA NUMBER: 80239  
SN: 0503-LP-500-1390 QR: 3  
ASSIGNMENTS: 5 POINTS: 5

ERRATA #4 DATED: 9412  
SN: 0503-LP-500-1394 QR: 3

ANSWER KEY SN: 0504-LP-776-0500 QR: 1

TRAMAN  
EDITION: 1986  
NAVEDTRA NUMBER: 10239-A  
SN: 0502-LP-051-1895 QR: 3

DESCRIPTION: 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.

### RELIGIOUS PROGRAM SPECIALIST 3

NRTC EDITION: 1994  
NAVEDTRA NUMBER: 82616  
SN: 0503-LP-219-4400 QR: 3  
ASSIGNMENTS: 3 POINTS: 5

ANSWER KEY SN: 0504-LP-776-2400 QR: 1

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12616  
SN: 0502-LP-219-4300 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: 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.

### RELIGIOUS PROGRAM SPECIALIST 3 & 2, MODULE 1--PERSONNEL SUPPORT

TRAMAN/NRTC

EDITION: 1982

NAVEDTRA NUMBER: 287-01-45-82

SN: 0507-LP-287-0100 QR: 3

ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 1991

SN: 0507-LP-287-0101 QR: 3

ANSWER KEY SN: 0504-LP-775-9400 QR: 1

DESCRIPTION: 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.

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

TRAMAN/NRTC

EDITION: 1981

NAVEDTRA NUMBER: 287-02-45-81

SN: 0507-LP-287-0200 QR: 3

ASSIGNMENTS: 4 POINTS: 5

ERRATA #2 DATED: 1996

SN: 0507-LP-287-0202 QR: 3

ANSWER KEY SN: 0504-LP-775-9500 QR: 1

DESCRIPTION: 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).

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

TRAMAN/NRTC

EDITION: 1983

NAVEDTRA NUMBER: 287-03-45-83

SN: 0507-LP-287-0300 QR: 3

ASSIGNMENTS: 5 POINTS: 5

ERRATA #1 DATED: 1988

SN: 0507-LP-287-0301 QR: 3

ANSWER KEY SN: 0504-LP-775-9600 QR: 1

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### SEABEE COMBAT HANDBOOK, VOLUME 1

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82003

SN: 0503-LP-476-7500 QR: 8

ASSIGNMENTS: 9 POINTS: 18

ERRATA #2 DATED: 9606

SN: 0503-LP-476-7502 QR: 8

ANSWER KEY SN: 0504-LP-776-6200 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12003

SN: 0502-LP-476-7400 QR: 8

ERRATA #1 DATED: 9605

SN: 0502-LP-476-7401 QR: 8

DESCRIPTION: 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.

### SEABEE COMBAT HANDBOOK, VOLUME 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82004

SN: 0503-LP-482-1800 QR: 8

ASSIGNMENTS: 6 POINTS: 9

ERRATA #1 DATED: 9704

SN: 0503-LP-482-1801 QR: 8

ANSWER KEY SN: 0504-LP-777-8600 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12004

SN: 0502-LP-482-1700 QR: 8

DESCRIPTION: 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.

### SEAMAN

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82016

SN: 0503-LP-221-7900 QR: 10

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-775-5700 QR: 1

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

TRAMAN  
EDITION: 1993  
NAVEDTRA NUMBER: 12016  
SN: 0502-LP-221-7200 QR: 10

DESCRIPTION: 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.

### SHIPBOARD ELECTRONICS MATERIAL OFFICER

NRTC  
EDITION: 1992  
NAVEDTRA NUMBER: 82969  
SN: 0503-LP-479-0600 QR: 3  
ASSIGNMENTS: 14 POINTS: 21

ANSWER KEY SN: 0504-LP-775-8700 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12969  
SN: 0502-LP-217-9400 QR: 3

DESCRIPTION: Provides information for the electronics maintenance officer aboard ship. Provides information on organization and administration, training, safety and security, material responsibilities, communication theory and equipment, teletypewriter and facsimile equipment, radar theory and equipment, navigation theory and equipment, naval tactical data system, miscellaneous facilities, records, reports, publications, work beyond the capability of ship's force, supply, and electronic material identification.

### SHIP'S SERVICEMAN 1 & C

NRTC  
EDITION: 1986  
NAVEDTRA NUMBER: 80287  
SN: 0503-LP-500-1870 QR: 3  
ASSIGNMENTS: 7 POINTS: 9

ANSWER KEY SN: 0504-LP-776-0900 QR: 1

TRAMAN  
EDITION: 1986  
NAVEDTRA NUMBER: 10287-F  
SN: 0502-LP-051-4340 QR: 3

ERRATA #1 DATED: 1991  
SN: 0502-LP-051-4341 QR: 3

DESCRIPTION: Provides descriptions of the duties and responsibilities of the senior Ship's Serviceman including the opportunities and challenges of the Ship's Serviceman rating and the leadership and management techniques the senior Ship's Serviceman will be expected to use. Includes information on the organization of ashore supply and fiscal activities; the supervision of procedures afloat for procurement of stock; receipt, stowage, and expenditure of stock; ship's store operations; and records and returns. Also provides a brief description of Navy commissary store operations and the Retail Operation Management (ROM) system.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### SHIP'S SERVICEMAN 2

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80177  
SN: 0503-LP-217-4700 QR: 3  
ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-776-0200 QR: 1

### TRAMAN

EDITION: 1990  
NAVEDTRA NUMBER: 10177  
SN: 0502-LP-217-2900 QR: 3

DESCRIPTION: Describes the general procedures for using the Retail Operation Management system, preparing and maintaining the ship's store files, collecting cash in ship's store afloat, receiving and accounting for ship's store stock, issuing material, inventorying merchandise and reconciling results, and laundry scheduling and quality assurance.

### SHIP'S SERVICEMAN 3

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80176  
SN: 0503-LP-217-7700 QR: 3  
ASSIGNMENTS: 7 POINTS: 11

ANSWER KEY SN: 0504-LP-776-0100 QR: 1

### TRAMAN

EDITION: 1990  
NAVEDTRA NUMBER: 10176  
SN: 0502-LP-217-6200 QR: 3

DESCRIPTION: Describes the organization and functions of the Navy supply system and supply department afloat, security of supply department spaces, operation of the sales outlets, stowage of ships store stock, barber shop service, and the operation of the ship's laundry and dry-cleaning plant.

### SIGNALMAN 1 & C

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82104-A  
SN: 0503-LP-482-1400 QR: 3  
ASSIGNMENTS: 4 POINTS: 6

ERRATA #2 DATED: 9802  
SN: 0503-LP-482-1402 QR: 3

ANSWER KEY SN: 0504-LP-777-8400 QR: 1

### SIGNALMAN

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12104-A  
SN: 0502-LP-482-1300 QR: 3

ERRATA #1 DATED: 9702  
SN: 0502-LP-482-1301 QR: 3

DESCRIPTION: Provides information in the following areas: visual communications; signal equipment; messages; allied communication procedures; allied flaghoist

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

procedures; international signaling; convoy communications; watchstanding duties; honors and ceremonies; security; amphibious duties; aircraft and ship identification, and technical administration.

### SIGNALMAN 3 & 2

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 72104-A  
SN: 0503-LP-482-1600 QR: 3  
ASSIGNMENTS: 13 POINTS: 21

ERRATA #2 DATED: 9802  
SN: 0503-LP-482-1602 QR: 3

ANSWER KEY SN: 0504-LP-777-8500 QR: 1

### SIGNALMAN

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12104-A  
SN: 0502-LP-482-1300 QR: 3

ERRATA #1 DATED: 9702  
SN: 0502-LP-482-1301 QR: 3

DESCRIPTION: 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.

### SONAR TECHNICIAN G 1 & C

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82499  
SN: 0503-LP-002-1780 QR: 3  
ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-002-1790 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12499  
SN: 0502-LP-002-1770 QR: 3

DESCRIPTION: Covers tactical use of the ocean environment, submarine weapon systems and capabilities, submarine sensors and capabilities, ASW operations, IUSS computers, peripherals, and subsystems; and torpedo evasion and countermeasure employment.

Special Information: **WARNING!** These products are classified SECRET. **ATTENTION!** This course reflects the newly merged Sonar Technician G rating and incorporates necessary training material related to the former Ocean Systems Technician ratings.

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## GENERAL NONRESIDENT TRAINING COURSES

### SONAR TECHNICIAN G 3 & 2, VOLUME 1

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82497

SN: 0503-LP-002-1720 QR: 3

ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-002-1730 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12497

SN: 0502-LP-002-1710 QR: 3

DESCRIPTION: Covers administration, physics of sound, basic lofargram analysis, surface ship ASW organization, contact analysis, target motion analysis, and plotting and positioning techniques.

Special Information: **WARNING!** These products are classified SECRET. **ATTENTION!** This course reflects the newly merged Sonar Technician G rating and incorporates necessary training material related to the former Ocean Systems Technician ratings.

### SONAR TECHNICIAN G 3 & 2, VOLUME 2

NRTC

EDITION: 1996

NAVEDTRA NUMBER: 82498

SN: 0503-LP-002-1750 QR: 3

ASSIGNMENTS: 4 POINTS: 6

ANSWER KEY SN: 0504-LP-002-1760 QR: 1

TRAMAN

EDITION: 1996

NAVEDTRA NUMBER: 12498

SN: 0502-LP-002-1740 QR: 3

DESCRIPTION: Covers surface ship active and passive sonar systems, auxiliary equipment, IUSS systems, ASW fire control systems, and lightweight torpedo shipboard handling and storage.

Special Information: **WARNING!** These products are classified SECRET. **ATTENTION!** This course reflects the newly merged Sonar Technician G rating and incorporates necessary training material related to the former Ocean Systems Technician ratings.

### SONAR TECHNICIAN S 1 & C

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82488

SN: 0503-LP-218-5800 QR: 3

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-0900 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12488

SN: 0502-LP-218-5700 QR: 3

DESCRIPTION: Provides information on data collection, tactical operation, tactical use of the ocean environment, towed array tactical employment, relative motion analysis, sonar ranging techniques, and range rate and frequency analysis.

Special Information: **WARNING!** These products are classified SECRET.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### SONAR TECHNICIAN S 3 & 2

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82486  
SN: 0503-LP-478-7700 QR: 3  
ASSIGNMENTS: 9 POINTS: 12

ANSWER KEY SN: 0504-LP-775-0800 QR: 1

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12486  
SN: 0502-LP-478-7600 QR: 3

DESCRIPTION: Provides fundamental information concerning the physics of sound, basic lofargram analysis, classification and surface ship analysis, diesel and nuclear submarine analysis, submarine search plan development, sonar tracking, target motion analysis, approach and attack, and submarine silencing.  
Special Information: **WARNING!** These products are classified SECRET//NINTEL//NOFORN.

### SOUND-POWERED TELEPHONE TALKERS' MANUAL

NRTC  
EDITION: 1994  
NAVEDTRA NUMBER: 82097  
SN: 0503-LP-480-0800 QR: 12  
ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-4000 QR: 1

TRAMAN  
EDITION: 1994  
NAVEDTRA NUMBER: 12097  
SN: 0502-LP-480-0700 QR: 12

DESCRIPTION: 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.

### STEELWORKER, VOLUME 1

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82529  
SN: 0503-LP-477-8400 QR: 3  
ASSIGNMENTS: 6 POINTS: 9

ANSWER KEY SN: 0504-LP-777-7700 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12529  
SN: 0502-LP-477-8300 QR: 3

DESCRIPTION: 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.

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## GENERAL NONRESIDENT TRAINING COURSES

### STEELWORKER, VOLUME 2

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82530  
SN: 0503-LP-482-2100 QR: 3  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9709  
SN: 0503-LP-482-2101 QR: 3

ANSWER KEY SN: 0504-LP-777-8700 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12530  
SN: 0502-LP-482-1900 QR: 3

DESCRIPTION: 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.

### STOREKEEPER 1 & C

NRTC  
EDITION: 1998  
NAVEDTRA NUMBER: 82652-A  
SN: 0503-LP-013-5240 QR: 3  
ASSIGNMENTS: 9 POINTS: 14

ANSWER KEY SN: 0504-LP-013-5260 QR: 1

TRAMAN  
EDITION: 1992  
NAVEDTRA NUMBER: 12652  
SN: 0502-LP-215-2900 QR: 5

DESCRIPTION: Provides training on these Storekeeper topics; administration; COSAL; funding and accounting; afloat reports; procurement; receipts and expenditures; storage afloat and ashore; inventory management; shipping; and automated supply procedures.

### STOREKEEPER 3 & 2

NRTC  
EDITION: 1996  
NAVEDTRA NUMBER: 82650  
SN: 0503-LP-479-5300 QR: 5  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9807  
SN: 0503-LP-479-5301 QR: 5

ANSWER KEY SN: 0504-LP-777-6600 QR: 1

TRAMAN  
EDITION: 1996  
NAVEDTRA NUMBER: 12650  
SN: 0502-LP-479-5200 QR: 5

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Covers the basic information regarding the Storekeeper rating such as organization and function of the Navy supply system; supply procedures afloat and ashore; classification and identification of material; COSAL; procurement; material receipt, custody, and stowage; inventory management; expenditures; accounting classifications; afloat accounting and reporting; automated supply; maintenance and material management systems; material handling equipment; and packing, marking, and shipping material.

### TIME CONVERSION

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 095-23-00-92

SN: 0507-LP-477-7800 QR: 3

ASSIGNMENTS: 1 POINTS: 2

ANSWER KEY SN: 0504-LP-777-3400 QR: 1

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: A95-23-00-92

SN: 0507-LP-220-8800 QR: 3

DESCRIPTION: 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.

### TOOLS AND THEIR USES

NRTC

EDITION: 1992

NAVEDTRA NUMBER: 82085

SN: 0503-LP-219-5200 QR: 12

ASSIGNMENTS: 5 POINTS: 8

ERRATA #1 DATED: 1993

SN: 0503-LP-219-5201 QR: 12

ANSWER KEY SN: 0504-LP-775-5800 QR: 1

### USE AND CARE OF HAND TOOLS AND MEASURING TOOLS

TRAMAN

EDITION: 1992

NAVEDTRA NUMBER: 12085

SN: 0502-LP-219-5100 QR: 12

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### TORPEDOMAN'S MATE 1 & C

TRAMAN/NRTC  
EDITION: 1984  
NAVEDTRA NUMBER: 10164-D  
SN: 0502-LP-050-8230 QR: 3  
ASSIGNMENTS: 8 POINTS: 24

ERRATA #2 DATED: 9711  
SN: 0502-LP-050-8232 QR: 3

ANSWER KEY SN: 0504-LP-774-8100 QR: 1

DESCRIPTION: Describes the enlisted rating structure as it applies to the TM rating. Provides information on the procedures for advancement in rate, and lists sources of information relative to the TM rating. This course is designed to help you become more knowledgeable in the field of underwater ordnance. The text has nine chapters and covers weapons currently in use, test equipment, launching methods, administration procedures, security, safety, and maintenance.

### TORPEDOMAN'S MATE SECOND CLASS

NRTC  
EDITION: 1991  
NAVEDTRA NUMBER: 82435  
SN: 0503-LP-215-9400 QR: 3  
ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-775-0200 QR: 1

TRAMAN  
EDITION: 1991  
NAVEDTRA NUMBER: 12435  
SN: 0502-LP-215-9300 QR: 3

DESCRIPTION: Provides coverage of the professional requirements for advancement to TM2. Coverage includes information on duties and responsibilities of the TM2; safety, handling, shipping and stowage; torpedo maintenance programs, mechanical and electrical maintenance; heavyweight torpedo maintenance; submarine simulator systems; and recovery operations.

### TORPEDOMAN'S MATE THIRD CLASS

NRTC  
EDITION: 1989  
NAVEDTRA NUMBER: 80168  
SN: 0503-LP-219-4100 QR: 3  
ASSIGNMENTS: 8 POINTS: 17

ANSWER KEY SN: 0504-LP-774-9200 QR: 1

TRAMAN  
EDITION: 1989  
NAVEDTRA NUMBER: 10168  
SN: 0502-LP-219-2200 QR: 3

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

DESCRIPTION: Provides coverage of the professional requirements for advancement to TM3. Coverage includes information on duties and responsibilities of the TM3; explosives; torpedo tools and equipment; surface-launched torpedoes; submarine-launched torpedoes; weapons handling, shipping and stowing; missile weapons systems, countermeasures and mines; torpedo tubes; small arms; and security.  
Special Information: **WARNING!** These products are classified CONFIDENTIAL.

### USEFUL INFORMATION FOR NEWLY COMMISSIONED OFFICERS

SP  
EDITION: 1992  
NAVEDTRA NUMBER: 12967  
SN: 0502-LP-220-6100 QR: 12

DESCRIPTION: Aids new officers in their transition to Navy life. Useful to officers in a variety of commissioning programs. This reference booklet contains information on Navy career patterns, orders and travel, the first duty station, shipboard routines, protocol, legal and financial matters, official records, uniforms, courtesies, customs, and traditions of the Navy.

### UTILITIESMAN (ADVANCED)

NRTC  
EDITION: 1995  
NAVEDTRA NUMBER: 82534  
SN: 0503-LP-480-3800 QR: 3  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #2 DATED: 9803  
SN: 0503-LP-480-3802 QR: 3

ANSWER KEY SN: 0504-LP-777-6100 QR: 1

### TRAMAN

EDITION: 1995  
NAVEDTRA NUMBER: 12534  
SN: 0502-LP-480-3700 QR: 3

DESCRIPTION: 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.

# PART 1

## GENERAL NONRESIDENT TRAINING COURSES

### UTILITIESMAN 2

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 80662  
SN: 0503-LP-212-7300 QR: 3  
ASSIGNMENTS: 11 POINTS: 18

ANSWER KEY SN: 0504-LP-776-6000 QR: 1

### TRAMAN

EDITION: 1990  
NAVEDTRA NUMBER: 10662  
SN: 0502-LP-212-7200 QR: 3

DESCRIPTION: Covers information in the Utilitiesman rating, such as administrative duties and safety responsibilities; plans, specifications, and color coding; plumbing; pumps and air compressors; water treatment; maintenance of water treatment equipment; steam distribution systems; boilers; warm-air heating systems; hot-water heating systems; galley equipment; laundry equipment; refrigeration; and air conditioning.

### UTILITIESMAN 3

NRTC  
EDITION: 1990  
NAVEDTRA NUMBER: 82532  
SN: 0503-LP-214-1200 QR: 3  
ASSIGNMENTS: 12 POINTS: 18

ERRATA #1 DATED: 9707  
SN: 0503-LP-214-1201 QR: 3

ANSWER KEY SN: 0504-LP-776-8300 QR: 1

### TRAMAN

EDITION: 1990  
NAVEDTRA NUMBER: 12532  
SN: 0502-LP-214-1100 QR: 3

DESCRIPTION: Covers plans and specifications; rough-in plumbing; plumbing; plumbing repairs; prime movers, pumps, and air compressors; field water treatment and processes; advanced base field support facilities; boilers; hot-water and warm-air heating systems; refrigeration and air conditioning.

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### YEOMAN 1 & C

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 82614

SN: 0503-LP-218-8900 QR: 5

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-776-2300 QR: 1

TRAMAN

EDITION: 1993

NAVEDTRA NUMBER: 12614

SN: 0502-LP-218-8800 QR: 5

DESCRIPTION: 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.

### YEOMAN 3 & 2

NRTC

EDITION: 1995

NAVEDTRA NUMBER: 82613

SN: 0503-LP-480-6700 QR: 5

ASSIGNMENTS: 5 POINTS: 8

ANSWER KEY SN: 0504-LP-777-5700 QR: 1

TRAMAN

EDITION: 1995

NAVEDTRA NUMBER: 12613

SN: 0502-LP-480-6600 QR: 5

DESCRIPTION: Covers material on 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, and pay and allowances, and technical administration.

## **PART 2**

# **CRYPTOLOGIC TRAINING PRODUCTS**

### **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 NETPDTC), 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: cryptologic.products@smtp.cnet.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.

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

### 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.

### NEW CT ADVANCEMENT-IN-RATE REQUIREMENTS

Per COMNAVSECGRU 021250Z DEC 97, Summary of Actions for 1997 CT Advancement in Rate (A-I-R) Working Group, the changes to CT advancement-in-rate requirements are detailed below:

#### CTT

CTTCS(SW) Barclay nsanet: dbarcla@nsa  
unclas e-mail: cttcs-dan.barclay@smtp.cnet.navy.mil  
CTTC(AW) Repinski nsanet: larepin@nsa  
unclas e-mail: cttc-lan.repinski@smtp.cnet.navy.mil

1. Add NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-4.
2. Add NSG Mod 32, Evaluation/Fitness Reports, as a requirement for E-6.
3. Delete NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-6.
4. Delete NSG Mod 31, Supervision and Training, as a requirement for E-7. This course is no longer available.

#### CTO

CTOCM Pace nsanet: jepace@nsa  
unclas e-mail: ctocm-jim.pace@smtp.cnet.navy.mil  
CTOCM(AW) Signore nsanet: rasigno@nsa  
unclas e-mail: ctocm-ron.signore@smtp.cnet.navy.mil

1. Add NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-4.
2. Add NSG Mod 32, Evaluation/Fitness Reports, as a requirement for E-6 and E-7.
3. Add TCP/IP Networking: Concepts and Protocols (NETG CBT a12258), UNIX Fundamentals (NETG CBT a12327), Networking Essentials Part 1 (NETG CBT a70421), Networking Essentials Part 2 (NETG CBT a70422), and Networking Essentials Part 3 (NETG CBT a70423) as requirements for E-4.

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

4. Add Client/Server Fundamentals (NETG CBT a11953), TCP/IP Networking: Concepts and Protocols (NETG CBT a12258), UNIX Fundamentals (NETG CBT a12327), Networking Essentials Part 1 (NETG CBT a70421), Networking Essentials Part 2 (NETG CBT a70422), and Networking Essentials Part 3 (NETG CBT a70423) as requirements for E-5.
5. Add Client/Server Fundamentals (NETG CBT a11953), TCP/IP Networking: Concepts and Protocols (NETG CBT a12258), UNIX Fundamentals (NETG CBT a12327), Networking Essentials Part 1 (NETG CBT a70421), Networking Essentials Part 2 (NETG CBT a70422), and Networking Essentials Part 3 (NETG CBT a70423) as requirements for E-6.
6. Delete NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-6.
7. Delete NEETS Mod 13, Introduction to Number Systems and Logic Circuits, as a requirement for E-5.
8. Delete NSG Mod 15, Analysis and Reporting: SIGINT Reporting, as a requirement for E-7.
9. Delete NSG Mod 24, Fleet Operations - Tactical Cryptologic Management, as a requirement for E-7.
10. Delete NSG Mod 31, Supervision and Training, as a requirement for E-7. This course is no longer available.

### CTA

CTACS Vinson nsanet: pdvinso@nsa  
unclas e-mail: ctacs-pam.vinson@smtp.cnet.navy.mil  
CTAC(SW) Davis nsanet: dedavi4@nsa  
unclas e-mail: ctac-dan.davis@smtp.cnet.navy.mil

1. Add NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-5.
2. Add NSG Mod 37, NAVSECGRU Awards Manual, as a requirement for E-6.
3. Delete NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-6.
4. Delete NSG Mod 25, Introduction to the CTA Rating, as a requirement for E-4. This course is no longer available.
5. Delete NSG Mod 31, Supervision and Training, as a requirement for E-6. This course is no longer available.
6. Delete NSG Mod 32, Evaluation/Fitness Reports, as a requirement for E-6 and E-7.
7. Delete NAVEDTRA 72609, LN 3&2, as a requirement for E-6.
8. Delete NAVEDTRA 82609, LN 1&C, as a requirement for E-7.

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

### CTM

CTMCM Abernethy nsanet: drabern@nsa  
unclas e-mail: ctmcm-david.abernethy@smtp.cnet.navy.mil

1. Add NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-5.  
NOTE: All subsequent E-6 candidates must have completed NSG Mod 1 as either an E-5 or E-6 candidate.
2. Add NSG 32, Evaluation/Fitness Reports, as a requirement for E-6.
3. Add NEETS Mod 14, Introduction to Microelectronics, as a requirement for E-4.  
NOTE: All subsequent E-5 candidates must have completed NEETS Mod 14 as either an E-4 or E-5 candidate.
4. Add NSG Mod 29, CTM Core Elements, as a requirement for E-5 for March 99.
5. Delete NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-6.
6. Delete NEETS Mod 14, Introduction to Microelectronics, as a requirement for E-5.
7. Delete NSG Mod 31, Supervision and Training, as a requirement for E-7.
8. Delete NSG Mod 34, CTM Organization & Administration, as a requirement for E-5. This course is no longer available.
9. Delete NSG Mod 36, CTM Safety, as a requirement for E-4. This course is no longer available.

### CTR

CTRCM(SW) Moore nsanet: wrmoor2@nsa  
unclas e-mail: ctrcm-william.moore@smtp.cnet.navy.mil  
CTRC(SS) Robbins nsanet: edrobbi@nsa  
unclas e-mail: ctrc-dean.robbins@smtp.cnet.navy.mil

1. Add NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-4.
2. Add NSG Mod 5, Communications Signals Collection Operator, as a requirement for E-7.
3. Add NSG Mod 32, Evaluation/Fitness Reports, as a requirement for E-6.
4. Delete NSG Mod 1, Naval Cryptology in National Security, as a requirement for E-6.
5. Delete EA-183, Math for SIGINT, as a requirement for E-4, E-6, E-7, and E-8. It remains a requirement for E-5.
6. Delete NSG Mod 24, Fleet Operations: Tactical Cryptologic Management, as a requirement for E-7.

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

7. Delete NSG Mod 31, Supervision and Training, as a requirement for E-7. This course is no longer available.
8. Delete EC-124, EA-190, and EA-106 as requirements for E-4 through E-8.

### CTI

CTICS Luttrell nsanet: stluttr@nsa  
unclas e-mail: ctics-steve.luttrell@smtp.cnet.navy.mil

Per the NEC manual, "Commencing with the September 1998 advancement cycle 160, all candidates competing for E-5 (CTI2) through E-8 (CTICS) must annually achieve a proficiency score of L2/R2 on the Defense Language Proficiency Test (DLPT) in the language which reflects their primary duty as determined by the member's commanding officer. Minimum proficiency of L2/R2 must be attained within one year of the eligibility cut-off date for each advancement cycle to become eligible for advancement unless exempted by COMNAVSECGRU."

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

### CT MANDATORY COURSE REQUIREMENTS BY PAYGRADE FOR MARCH 1999

	T	A	M	O	R	I
NAVAL CRYPTOLOGY IN NATIONAL SECURITY, NSGTC 684-01-00-97	4	5	**5	4	4	4
CRYPTOLOGIC OPERATORS MANUAL FOR ELINT OPERATIONS, NSGTC 684-04-00-94	5					
COMMUNICATIONS SIGNALS COLLECTION OPERATOR, NSGTC 684-05-00-96					7	6
CRYPTOLOGIC COLLECTION EQUIPMENTS, NSGTC 684-09-00-96					5	5
SCI SECURITY & EMERGENCY DESTRUCTION, NSGTC 684-11-00-94	4	4	4	4	4	4
SIGINT REPORTING, NSGTC 684-15-00-98					5	
RADIO WAVE MODULATION & SIGNAL MULTIPLEXING, NSGTC 684-16-44-91	4					
ELINT COLLECTION PROCEDURES, NSGTC 684-17-44-92	5					
ELINT PROCESSING, ANALYSIS & REPORTING PROCEDURES, NSGTC 684-18-55-92	6					
TECHNICAL CONTROL, NSGTC 684-20-00-94				5		
FLEET OPS - ORIENTATION, NSGTC 684-22-00-97	5		5		4	5
FLEET OPS - ELECTRONIC WARFARE, NSGTC 684-23-00- 93	6				6	
FLEET OPS - TACTICAL CRYPTOLOGIC MANAGEMENT, NSGTC 684-24-00-92	7				6	
ADMINISTRATIVE OFFICE PROCEDURES, NSGTC 684-26-00-96		5				

\*\*All E-6 candidates must have completed NSG Mod 1 as either an E-5 or E-6 candidate.

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

### CT MANDATORY COURSE REQUIREMENTS BY PAYGRADE FOR MARCH 1999

	T	A	M	O	R	I
SHIPBOARD COMMUNICATIONS, NSGTC 684-28-00-94				5		
CTM CORE ELEMENTS, NSGTC 684-29-00-98			5			
EVALUATION/FITNESS REPORT, NSGTC 684-32-00-97	6	5	6	6-7	6	
NAVSECGRU AWARDS MANUAL, NSGTC 684-37-00-97		6				
*INTRO TO MICROELECTRONICS, NEETS MODULE 14, NAVEDTRA 172-14-00-84			**4			
MATH FOR SIGINT, EA-183	4-8				5	
#DIGITAL COMMS, EA-190				6		
*NAVAL SPACE, NAVEDTRA 82961	5					7
#INTRO TO MULTICHANNEL TECHNOLOGY, EA-030						6
#INTRO TO ELINT ANALYSIS AND REPORTING, IS-070						7
#BASIC TRAFFIC ANALYSIS, TA-103					5	6
#NRO SYSTEMS OVERVIEW	6					
#CLIENT/SERVER FUNDAMENTALS, NETG A11953				5-6		
#TCP/IP NETWORKING: CONCEPTS AND PROTOCOLS, NETG A12258				4-6		
#UNIX FUNDAMENTALS, NETG A12327				4-6		
#NETWORKING ESSENTIALS PART 1, NETG A70421				4-6		
#NETWORKING ESSENTIALS PART 2, NETG A70422				4-6		
#NETWORKING ESSENTIALS PART 3, NETG A70423				4-6		

\* See Part 1 for ordering information.

# See your local NAVSECGRU nonresident training library for ordering information.

\*\*All E-5 candidates must have completed NEETS Mod 14 as either an E-4 or E-5 candidate.

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

### ADMINISTRATIVE INFORMATION

<p>WHO IS ELIGIBLE TO ENROLL IN SPECIAL NAVSECGRU TRAINING COURSES</p>	<ol style="list-style-type: none"> <li>1. Enrollment is limited to personnel who:             <ol style="list-style-type: none"> <li>a. currently hold the requisite security clearance</li> <li>b. are assigned to an activity having adequate facilities for the proper stowage and protection of the materials</li> <li>c. have completed any prerequisite course(s)</li> <li>d. normally are in one of the following categories:                 <ul style="list-style-type: none"> <li>• Active duty personnel of any service assigned duty with the Naval Security Group.</li> <li>• Inactive duty personnel of any service assigned duty with the Naval Reserve Security Group and residing in the United States.</li> <li>• 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.</li> <li>• Civilian personnel employed by activities providing functional support to the Naval Security Group mission.</li> </ul> </li> </ol> </li> <li>2. Exceptions may be made on a <b>case-by-case</b> basis.</li> </ol>
<p>HOW TO ENROLL</p>	<ol style="list-style-type: none"> <li>1. <u>Enlisted Personnel, Officers, and Civilians.</u> <ol style="list-style-type: none"> <li>a. Personnel at elements that maintain a NAVSECGRU nonresident training library should enroll at, and have assignments graded by, their local library.</li> <li>b. 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.)</li> </ol> </li> <li>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).</li> </ol>
<p>ANSWER SHEETS</p>	<p>Use conventional answer sheets for NSGTCs.</p>

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

### ADMINISTRATIVE INFORMATION (Continued)

HOW ASSIGNMENTS ARE GRADED	<ol style="list-style-type: none"> <li>1. Return completed assignments to the issuing authority (NAVSECGRU library or Code N316 NETPDTC) for grading.             <ol style="list-style-type: none"> <li>a. NAVSECGRU libraries will grade assignments and make a page 4 service record entry locally.</li> <li>b. 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.</li> </ol> </li> <li>2. Return course materials to the issuing authority upon course completion.</li> </ol>
GRADES	<ol style="list-style-type: none"> <li>1. A passing score is 3.2 or above.</li> <li>2. Students receiving a failing score on an assignment must resubmit a new answer sheet marked RESUBMIT.</li> <li>3. The maximum grade for a resubmitted assignment is 3.2.</li> <li>4. Scores on resubmitted assignments will be averaged into the overall score.</li> <li>5. To qualify for a completion letter, students must achieve an overall course grade of at least 3.2.</li> </ol>
COMPLETION LETTERS	<ol style="list-style-type: none"> <li>1. Completion letters are issued to all personnel who complete a course administered by Code N316 NETPDTC.</li> <li>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.</li> </ol>
HOW TO DISENROLL	<ol style="list-style-type: none"> <li>1. Advisories of disenrollment must be sent to the issuing authority and should contain the reason for disenrollment.</li> <li>2. Students must return all course materials to the issuing authority upon disenrollment.</li> </ol>
STUDENT TRANSFERS	<ol style="list-style-type: none"> <li>1. Each activity should ensure that command personnel check-out procedures provide for the return of all NAVSECGRU nonresident course materials to the issuing authority.</li> <li>2. Transferring students, enrolled at Code N316 NETPDTC, should inform Code N316 if they want to be completely disenrolled or want their records transferred to the new command.</li> </ol>

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

### ADMINISTRATIVE INFORMATION (Continued)

USNR RETIREMENT POINTS	<ol style="list-style-type: none"> <li>1. Each course lists the recommended points for USNR retirement.</li> <li>2. For detailed information about retirement points, refer to the effective edition of BUPERSINST 1820.3.</li> </ol>
HOW TO PROVIDE STUDENT FEEDBACK	<ol style="list-style-type: none"> <li>1. Comments and recommendations from students are highly valued. Informal notes or memorandums are encouraged.</li> <li>2. Classified comments should be forwarded, via the student's command mail room, to Code N316 at the address listed page 1.</li> </ol>
HOW TO GET ASSISTANCE	<ol style="list-style-type: none"> <li>1. Send administrative or technical queries to Code N316 at the address provided earlier.</li> <li>2. Assistance via telephone may be obtained from Code N316 by calling DSN 922-1688.</li> <li>3. Queries may also be addressed via the NSANET to SID: JLBOSTO@NSA for informal information.</li> </ol>

### SOURCES FOR CT ADVANCEMENT STUDY MATERIALS

TYPE PUBLICATION	SOURCE
NAVEDTRA (TRAMAN OR NRTC)	NAVEDTRA 12061
USSID, SEDSCAF, EPL, COI, DOI	DIRNSA/CHCSS
OPNAVINST, SECNAVINST, NWP, NTP, NAVSEA, NAVELEX, NAVSO, NAVMAT, DCAC, ACP  NAVPERS 18068F VOLUME 1, CHAPTER 20 (CT OCCSTDS)	NORMAL SUPPLY CHANNELS
CMS	DCMS
National Cryptologic School Courses (EA-183, EA-190, EA-030, IS-070, TA-103, NRO Systems Overview)	COMNAVSECGRU N7 Deputy Director for Cryptologic Training
NSGTP/NSGTC	NETPDTC CODE N316 or Via NSA Webworld: NSGA.NSG.USN.NSA/DEPTF/10/CMATT
National Education Training Group Computer-Based Training (a11953, a12258, a12327, a70421, a70422, a70423)	NETPDTC CODE N316 or Via NSA Webworld: DISPATCH II

## PART 2

# CRYPTOLOGIC TRAINING PRODUCTS

### COURSE DESCRIPTIONS

The following NSGTCs and NSGTPs 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 4-Cryptologic Operators Manual for ELINT Operations**

NSGTC NUMBER: 684-04-00-94

ASSIGNMENTS: 1 POINTS: 2

NSGTP NUMBER: 683-04-00-94

This module provides the student with information concerning national and naval ELINT responsibilities; radar types and functions; radar system characteristics; ELINT collection and reporting; and threat emitters.

Special Instructions: WARNING! This course is classified SECRET.

#### **Module 5-Communications Signals Collection Operator**

NSGTC NUMBER: 684-05-00-96

ASSIGNMENTS: 3 POINTS: 6

NSGTP NUMBER: 683-05-00-96

This module provides information concerning the characteristics of radio wave theory, modulation, multiplexing techniques, and satellite communication theory. Describes advanced international communication procedures; communication intelligence operations; and signals intelligence reporting procedures.

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

## PART 2

# CRYPTOLOGIC TRAINING PRODUCTS

### **Module 7-Cryptographic Operators Manual**

NSGTC NUMBER: 684-07-44-92

ASSIGNMENTS: 3 POINTS: 6

NSGTP NUMBER: 683-07-44-92

This module provides the student with information concerning the make-up of a secure communications system, basic handling requirements of Communications Security (COMSEC) Material associated with cryptosystems, step-by-step procedures for operation of the various cryptosystems used within the Naval Security Group, and the Defense Special Security Communications Systems. Includes descriptions of a variety of on-line and off-line equipments used on shore, surface, and airborne platforms.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

### **Module 9-Cryptologic Collection Equipments**

NSGTC NUMBER: 684-09-00-96

ASSIGNMENTS: 5 POINTS: 7

NSGTP NUMBER: 683-09-00-96

This module discusses preventive maintenance responsibilities of the operator, equipment nomenclature, and primary equipments used by operations personnel in the NAVSECGRU. Topics include discussions of transmission lines, multicoupling devices, patch panels, and antennas as well as general characteristics and functions of numerous receivers, demodulators, digitizers, demultiplexers, computers, and analysis equipment.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

### **Module 11-SCI Security and Emergency Destruction**

NSGTC NUMBER: 684-11-00-98

ASSIGNMENTS: 3 POINTS: 5

NSGTP NUMBER: 683-11-00-98

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; security markings; transmitting, receipting, and accounting for classified material; security violations and compromises; and emergency destruction.

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

## PART 2

# CRYPTOLOGIC TRAINING PRODUCTS

### **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: 684-16-44-91  
ASSIGNMENTS: 2 POINTS: 3

NSGTP NUMBER: 683-16-44-91

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

### **Module 17-ELINT Collection Procedures**

NSGTC NUMBER: 684-17-44-92  
ASSIGNMENTS: 1 POINTS: 1

Note: The text for this course is USSID 140.

This course provides information on the procedures involved in collecting electronic intelligence.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

### **Module 18-ELINT Processing, Analysis, and Reporting Procedures**

NSGTC NUMBER: 684-18-55-92  
ASSIGNMENTS: 1 POINTS: 1

Note: The text for this course is USSID 240.

This course provides information on ELINT processing, analysis, and reporting procedures.

Special Instructions: WARNING! This course is classified SECRET.

## PART 2 CRYPTOLOGIC TRAINING PRODUCTS

### **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 21-Automated Communications**

NSGTC NUMBER: 684-21-00-93  
ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-21-00-93

This module provides the CTO with a basic understanding of automated data processing and describes current automated communications systems and networks.

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 23-Fleet Operations - Electronic Warfare**

NSGTC NUMBER: 684-23-00-93  
ASSIGNMENTS: 2 POINTS: 3

NSGTP NUMBER: 683-23-00-93

This module introduces the student to the cryptologic aspects of electronic warfare. It includes general information on electronic warfare theory and application to ships, aircraft, and submarines.

Special Instructions: WARNING! This course is classified SECRET.

## PART 2

# CRYPTOLOGIC TRAINING PRODUCTS

### **Module 24-Fleet Operations - Tactical Cryptologic Management**

NSGTC NUMBER: 684-24-00-92

ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-24-00-92

This module introduces the student to the management of tactical cryptologic assets. It includes information regarding tactical communications, the naval tactical data system tactics, shore-based support, publications, and operational directives.

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

### **Module 26-Administrative Office Procedures**

NSGTC NUMBER: 684-26-00-96

ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-26-00-96

This module contains information on files and records; publications and directives; reports management and correspondence control; advancement-in-rate examinations; and joint military decorations and awards.

### **Module 28-Shipboard Communications**

NSGTC NUMBER: 684-28-00-94

ASSIGNMENTS: 4 POINTS: 8

NSGTP NUMBER: 683-28-00-94

This module contains an overall introduction to shipboard communications; information on shipboard safety; security and administration; combat readiness; 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: 683-29-00-98

This module contains information on administration, training, technical documentation, budgeting, security, logistics, information systems, Naval safety, installations, power, and facilities.

## PART 2

# CRYPTOLOGIC TRAINING PRODUCTS

### **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.

This course provides 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.

This course provides 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.

This course provides 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.

This course provides information on various Navy-related personnel programs of interest to CT personnel as well as their associated requirements.

# PART 3

## FOREIGN AND ENGLISH LANGUAGE TRAINING

### INTRODUCTION

A nonresident language program is any language program or course of instruction operated by any Naval Command or Reserve Component (exclusive of the Naval Academy, overseas dependents' schools, and programs conducted strictly for the purpose of voluntary personal development or obtaining academic credit). The Commandant, Defense Language Institute Foreign Language Center (DLIFLC, ATFL-OPP-PP), Presidio of Monterey, CA 93944-5006 (DSN 878-5112/5319 OR com 831-242-5112/5319) is responsible for all mission and/or job related foreign language training Command Language Programs (CLPs). The Commandant, Defense Language Institute English Language Center (DLIELC/LEOX); e-mail: molloyt@lackland.af.mil; 2235 Andrews Avenue, Lackland AFB, TX 78236-5259 (DSN 473-3783 or COM 210-671-3783) manages the English language area. Both have catalogs of materials which may be obtained by writing the appropriate Center.

### POLICIES

The following policies apply to nonresident language training.

1. Nonresident language programs shall be managed in accordance with OPNAVINST 1550.7B.
2. In accordance with OPNAVINST 1550.7B, the Navy Service Program Manager (SPM) is the Navy representative for nonresident foreign language programs. The Navy SPM's address:  
  
Chief of Naval Operations, N132D8  
Navy Annex, Federal Building #2  
Washington, DC 20370  
(Ref: OPNAVINST 1550.7B, 1-4-a-(4), 1-4-c-(2), (9), (14))
3. The establishment of a formal nonresident language program requires the approval of the appropriate Defense Language Institute Center.

### ESTABLISHING A NONRESIDENT LANGUAGE PROGRAM

All commands with mission and/or job related requirements are encouraged to establish a nonresident program. Commands which are located in non-English speaking countries can purchase materials from DLIFLC for cultural orientation.

Commands having a mission requirement for a language program will forward requests to the appropriate Defense Language Institute Center, their major command, and the Chief of Naval Operations. The request will contain the following information:

1. The language program mission and course objectives, including skill levels desired.
2. The number of students to be trained annually (by language).
3. The availability of training facilities, including language laboratory systems and portable language tape recorders.
4. A listing of available instructional materials.
5. Instructor(s) qualifications.
6. Total length of course in hours and weeks.
7. Instructional hours per day, per week.
8. Estimated direct operating costs.
9. Screening and proficiency tests as applicable.

The appropriate Defense Language Institute Center will review the technical aspects of the proposed language program and will approve and/or make appropriate technical recommendations to the requesting command.

Commands will be advised concerning availability of suitable materials.

# PART 3

## FOREIGN AND ENGLISH LANGUAGE TRAINING

### SELF-PACED AND SELF-INSTRUCTIONAL LEARNING

Self-study foreign language courses such as Headstart programs are available at cost for individual members of the Armed Services from:

Defense Language Institute  
Foreign Language Center  
ATTN: ATFL-OPP-PP  
Presidio of Monterey, CA 93944-5006  
(Ref: DLIFLC Pam 350-5, Catalog of Instructional Materials, January 1993, p. 1-2)

Service members who are not in a unit with a CLP and who have taken the Defense Language Proficiency Test (DLPT) within the past calendar year, scored a minimum of Listening 1, Reading 1, and forward a photocopy of their DLPT scores to DLIFLC will be provided a one-time issue of appropriate Refresher-Maintenance language materials gratis. (Ref: OPNAVINST 1550-7B, 15 March 1987, 3-4-e)

Service members who wish to learn a foreign language for personal development may purchase appropriate materials from DLIFLC. A check or money order payable to the TREASURER OF THE UNITED STATES should be sent to:

DLIFLC  
ATTN: ATFL-OPP-PP  
Presidio of Monterey, CA 93944-5006

DSN 878-5112/5319  
COM 831-242-5112/5319

DLIFLC Pam 350-5 (Catalog of Instructional Materials, January 1993) contains a list of currently available courses and the corresponding prices.

Units wishing to purchase materials can do so by forwarding a copy of DA form 448 (Military Interdepartmental Purchase Request) to DLIFLC.

Units with mission related requirements will be provided initial stocks of DLI nonresident program materials gratis upon approval of their request to establish a CLP. Requisitions for additional stocks will be submitted to the Service Program Manager for validation and forwarding to the Commandant, DLIFLC (Ref: OPNAVINST 1550.7B, 15 March 1987, 3-4-a).

Service members not associated with an approved program will be provided appropriate materials when their orders explicitly indicate that they are required to acquire a certain level of proficiency in a foreign language prior to assignment overseas (Ref: OPNAVINST 1550.7B, 15 March 1987, 3-4-e).

Any questions pertaining to establishment of foreign language training programs, acquisition of training materials, or requesting training services form DLIFLC should be directed to:

COMMANDANT	Active Component:
DLIFLC	traplr@pom-emh1.army.mil
ATTN: ATFL-OPP-PP	
Presidio of Monterey, CA 93944-5006	Reserve Component:
	burkharw@pom-emh1.army.mil

DSN 878-5112/5319  
COM 831-242-5112/5219

We will continue to support these activities in accordance with paragraphs 3-3 and 3-4 of AR 350-20, Training Management of the Defense Language Program, 15 March 1987.

Materials will be issued over the counter, mailed or shipped by the stocking centers if requested.

## PART 3

# FOREIGN AND ENGLISH LANGUAGE TRAINING

### TECHNICAL ASSISTANCE

A command may request technical assistance to establish a language training program or for ongoing education programs from the appropriate Defense Language Center. Assistance will be in the form of written guidance and/or on site evaluation and will include information on teaching methodologies, programs of instruction, course materials, instructor qualifications, and instructor training.

If materials are not available in the inventory of the appropriate Defense Language Center, suitable materials or sources for such materials will be recommended. In certain cases, upon request, the appropriate Defense Language Center will initiate the development of course materials for any program in which there is a continuing requirement.

### FOREIGN APTITUDE AND PROFICIENCY TEST

Aptitude for language learning is measured by the Defense Language Aptitude Battery (DLAB). Proficiency levels in speaking, reading, and listening to a specific language are measured by Defense Language Proficiency Tests (DLPT). Tests may be ordered from Commanding Officer, Naval Education and Training Professional Development and Technology Center (NETPDTC Code N3217), 6490 Saufley Field Road, Pensacola, Florida 32509-5126, COMM (850) 452-1364 or DSN 922-1364. Provide name, rank, SSN; purpose of testing; UIC of requesting command; and command's point of contact and phone number (commercial and DSN). Cassette tapes will be provided for the listening part of the test. All tests are controlled items and require security container storage. Test results are sent by NETPDTC to Bureau of Naval Personnel (PERS 313C) for entry on service records.

**PART 3**  
**FOREIGN AND ENGLISH LANGUAGE TRAINING**

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# PART 4

## CHAPLAIN CORPS

### INTRODUCTION

The nonresident training courses listed below are administered by Naval Education and Training Professional Development and Technology Center (NETPDTC). NETPDTC will enroll you, grade your course assignments, and certify your satisfactory course completion.

To enroll in one of the courses listed below, complete an Application For Enrollment in Correspondence Course, NETPDTC 1730/1 (6-97) form and return it to the NETPDTC address noted on the form. (A blank application form is provided at page 9-3. You may make copies of this form.)

**NOTE 1: THERE IS NO ASSOCIATED COURSE FOR THE HANDBOOK FOR CHAPLAINS. DO NOT USE THE ENROLLMENT FORM TO REQUEST A COPY OF THIS HANDBOOK. SEE THE HANDBOOK FOR CHAPLAINS CATALOG ENTRY ON THE FOLLOWING PAGE FOR INSTRUCTIONS ON HOW TO REQUEST A COPY.**

NETPDTC will process your enrollment form and mail your course materials by Special Fourth Class Rate. You should expect to receive your course materials in about 2-6 weeks.

**NOTE 2: THE MAXIMUM NUMBER OF CHAPLAIN COURSES YOU CAN BE ENROLLED IN AT ONE TIME IS TWO (2).**

Direct questions about **course enrollment** to:

Commanding Officer  
NETPDTC (Code N3182)  
6490 Saufley Field Road  
Pensacola FL 32559-5000

DSN: 922-1511/1859  
COMMERCIAL: (850) 452-1511/1859  
E-MAIL: distance.training@smtp.cnet.navy.mil

Direct questions about **course content** to:

Commanding Officer  
NETPDTC (Code OOG)  
6490 Saufley Field Road  
Pensacola FL 32509-5237

DSN: 922-1655  
COMMERCIAL: (850) 452-1655  
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# PART 4

## CHAPLAIN CORPS

### HISTORY OF THE CHAPLAIN CORPS, PART 1

NRTC

EDITION: 1982

NAVEDTRA NUMBER: 10906-4

ASSIGNMENTS: 8 POINTS: 12

DESCRIPTION: Presents the History of the Chaplain Corps from the days of the Continental Navy to 8 September 1939.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume One, NAVPERS 15807*, is supplied by NETPDTC.

### HISTORY OF THE CHAPLAIN CORPS, PART 2

NRTC

EDITION: 1994

NAVEDTRA NUMBER: 13094

ASSIGNMENTS: 5 POINTS: 8

DISCRIPTION: Continues the History of the Chaplain Corps through 1949.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume Two, NAVPERS 15808*, is supplied by NETPDTC.

### HISTORY OF THE CHAPLAIN CORPS, PART 3

NRTC

EDITION: 1993

NAVEDTRA NUMBER: 13095

ASSIGNMENTS: 10 POINTS: 15

DISCRIPTION: Presents the History of the Chaplain Corps during the Korean Conflict from June 1950 to June 1954.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume Six, NAVPERS 15936*, is supplied by NETPDTC.

### HISTORY OF THE CHAPLAIN CORPS, PART 4

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 13096

ASSIGNMENTS: 5 POINTS: 8

ERRATA #1 DATED: 1991

DISCRIPTION: Presents the History of the Chaplain Corps during the Vietnam conflict between 1954 and 1975.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume IX, Chaplains with U.S. Naval Units in Vietnam 1954-1975, NAVPERS 15508*, is supplied by NETPDTC.

### HISTORY OF THE CHAPLAIN CORPS, PART 5

NRTC

EDITION: 1988

NAVEDTRA NUMBER: 13097

ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 1992

DESCRIPTION: 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.

Special Information: The text for this course, *The Chaplains with Marines in Vietnam 1962-1971*, is supplied by NETPDTC.

# PART 4 CHAPLAIN CORPS

## CHAPLAIN CORPS COURSE ENROLLMENT FORM

1. Provide the below requested information. Forms will be returned for mission information.  
2. Mail application to:

COMMANDING OFFICER  
NETPDTC CODE N3182  
6490 SAUFLEY FIELD ROAD  
PENSACOLA FL 32559-5000

*Print or Type*

**NAME:** \_\_\_\_\_  
(Last, First, Middle Initial)

**ADDRESS:** \_\_\_\_\_  
(Street)

\_\_\_\_\_  
(City, State Zip Code)

**PHONE:** \_\_\_\_\_

**RANK/RATE:**

**SOCIAL SECURITY NO:**

**MARK BRANCH AND STATUS**

USN \_\_\_\_\_ Active \_\_\_\_\_  
USNR \_\_\_\_\_ Inactive \_\_\_\_\_  
USMC \_\_\_\_\_ IRR \_\_\_\_\_

**COURSE NUMBER:**

(Check requested course--**REMEMBER**--maximum number for enrollment is 2 courses at one time.)

PART 1, NAVEDTRA 10906-4 \_\_\_\_\_  
PART 2, NAVEDTRA 13094 \_\_\_\_\_  
PART 3, NAVEDTRA 13095 \_\_\_\_\_  
PART 4, NAVEDTRA 13096 \_\_\_\_\_  
PART 5, NAVEDTRA 13097 \_\_\_\_\_

**SIGNATURE OF APPLICANT**

**DATE:**

**PRIVACY ACT STATEMENT**

Under the authority of Title 5 USC 301, information regarding your military or other DOD status is requested in order to evaluate individual applications for enrollment in the Naval Correspondence Course program. The information will also be used to process course completion letters and to construct and maintain an official and continuing manual and/or automated record of correspondence course participation. The cumulative course 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. The transmittal of pertinent information to persons/institutions of the individual selection may be effected by a signed statement by the individual concerned. Completion of this form is voluntary; however, failure to provide the required information will result in an inability to process this application.

Application For Enrollment in Correspondence Course  
NETPDTC 1730/1 (6-97)

**PART 4**  
**CHAPLAIN CORPS**

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# PART 5

## MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Part 5 lists MANDATORY course requirements for advancement eligibility. Table 1 lists mandatory Military requirements; Table 2 lists mandatory Apprenticeship requirements; and Table 3 lists mandatory Rating-specific requirements. For simplicity, COURSE TITLES are listed followed by the NAVEDTRA NUMBERS of the training manual (TRAMAN), the course (NRTC), or the combined training manual and course (TRAMAN/NRTC).

The TRAMANS, TRAMANS/NRTCs, and NRTCs listed in Tables 1, 2, and 3 must be ordered by stock number as shown in Part 1 of this catalog. The following numbering system is common:

- TRAMANS and TRAMAN/NRTCs normally start with a 1, such as 10062 or 12100.
- NRTCs normally start with an 8 or 7, and sometimes a 6, such as 82043, 70335, or 62215.
- NRTCs that have no associated TRAMAN normally start with 13, such as 13090.

### REVISED COURSES

Candidates are NOT required to complete the *REVISED* edition of a mandatory course if they have completed the previously required edition. For example, an STG2 who has previously completed an STG 1&C course as a candidate for STG1 would not be required to complete the "revised" STG 1&C course for a future exam cycle. However, it is strongly recommended that candidates complete revised courses. Courses that are being replaced by a revised edition remain effective until the CUT-OFF date posted in the Listing of Obsolete Nonresident Training Courses shown in the front matter of this catalog.

### ADDED COURSES

If a mandatory course is *ADDED* to the paygrade for which candidates are competing, they must complete the added requirement. For example: an STG2 has completed the mandatory course requirements for STG1, and a new mandatory course requirement, such as NEETS Module 14, is added as a required course for STG1. The STG2 MUST complete the "added" course.

**Table 1.--Mandatory Military Course Requirements for All Ratings**  
SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES

PAYGRADE	MANDATORY MILITARY COURSE REQUIREMENTS
E-3	BASIC MILITARY REQUIREMENTS 12043/82043
E-4	MILITARY REQUIREMENTS FOR PO3 12044/82044
E-5	MILITARY REQUIREMENTS FOR PO2 12045/82045
E-6	MILITARY REQUIREMENTS FOR PO1 12046/82046
E-7	MILITARY REQUIREMENTS FOR CPO 12047/82047
E-8/E-9	MILITARY REQUIREMENTS FOR SENIOR & MASTER CPO 12048/82048

## PART 5

# MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 2.--Mandatory Apprenticeship Course Requirements

Per BUPERSINST 1430.16 (Advancement Manual), graduating from the Apprenticeship Training Program (ATP) satisfies the requirement for completion of the AN/FN/SN course for advancement to paygrade E-3. SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES

APPRENTICESHIP	MANDATORY APPRENTICESHIP COURSE REQUIREMENTS
AIRMAN	AIRMAN 12000/82000
CONSTRUCTIONMAN	NO REQUIREMENTS
DENTALMAN	NO REQUIREMENTS
FIREMAN	FIREMAN 12001/82001
HOSPITALMAN	NO REQUIREMENTS
SEAMAN	SEAMAN 12016/82016

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
ABE	ABE 3&2 12360-A/82360-A		ABE 1&C 12362/82362	
ABF	ABF 3&2 12364/72364		ABF 1&C 12364/82364	
ABH	ABH 3&2 12368/82368		ABH 1&C 12370/82370	
AC	NO REQUIREMENTS	AC2 12390-A/ 72390-A (Revised Course)	AC 1&C 12390-A/82390-A (Revised Course)	
AD	AD 3&2 12300/82300 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 (AMR is a revision of AMR Fundamentals, 12010-B)		NO REQUIREMENTS	
AE	AE 3&2 10348-G/80348-A  AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 (AMR is a revision of AMR Fundamentals, 12010-B)		NO REQUIREMENTS	

## PART 5

# MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
AG	AG3 12850/82850	AG2 V1 10370/80370 AG2 V2 10371/80371-A	AG 1&C 12853/82853	
AK	AK3 12654/82654	AK2 12655/82655	AK 1&C 12657/82657	
AME	AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 (AMR is a revision of AMR Fundamentals, 12010-B)	AME2 10401/80401 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 (AMR is a revision of AMR Fundamentals, 12010-B)	AME 1&C 12318/82318	
AMH	AM (H&S) 3&2 12338/82338 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 (AMR is a revision of AMR Fundamentals, 12010-B)		NO REQUIREMENTS	
AMS	AM (H&S) 3&2 12338/82338 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 (AMR is a revision of AMR Fundamentals, 12010-B)		NO REQUIREMENTS	

## PART 5

# MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
AO	AO 3&2 12309/72309 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision of AMR Fundamentals, 12010-B)</b>		AO1 12309/82309	NO REQUIREMENTS
AS	AS 3 10356/80356 (Until cut-off date listed on page 1-13) <b>OR</b> AS 3&2, V1 & V2, 12385 <b>(AS 3&amp;2 V1 &amp; V2 is a revision to AS3, 10356/80356)</b>  AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision of AMR Fundamentals, 12010-B)</b>	AS 2 10357/80357 (Until cut-off date listed on page 1-13) <b>OR</b> AS 3&2, V1 & V2, 12385 <b>(AS 3&amp;2 V1 &amp; V2 is a revision to AS2, 10357/80357)</b>  AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision of AMR Fundamentals, 12010-B)</b>	AS1 10358/80358 (Until cut-off date listed on page 1-13)	NO REQUIREMENTS

# PART 5

## MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
AT(I)	AT3 12329/82329 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision            of AMR            Fundamentals,            12010-B)</b>	AT2(I) 12334/82334 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision            of AMR            Fundamentals,            12010-B)</b>	NO REQUIREMENTS	
AT(O)	AT3 12329/82329 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision            of AMR            Fundamentals,            12010-B)</b>	AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision            of AMR            Fundamentals,            12010-B)</b>	AT1(O) 12331/82331	NO REQUIREMENTS

# PART 5

## MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
AW	AW 3&2 MOD 1 A60-01-45-86/ 060-01-45-86 AW3 MOD 2 A60-02-44-88/ 060-02-44-88 AW 3&2 MOD 3 A60-03-45-90/ 060-03-45-90 AW 3&2 MOD 4 A60-04-45-92/ 060-04-45-92	AW 3&2 MOD 1 A60-01-45-86/ 060-01-45-86 AW 3&2 MOD 3 A60-03-45-90/ 060-03-45-90 AW 3&2 MOD 4 A60-04-45-92/ 060-04-45-92	AW 1&C 12810/82810	
AZ	AZ 3&2 12324/82324		NO REQUIREMENTS	
BM	BM 3&2 12100/72100		BM 1&C 12100/82100	
BU	BU 3&2 V1 12520/82520 BU 3&2 V2 12521/82521 SEABEE COMBAT HANDBOOK V1 12003/82003		BU ADVANCED 12569 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	
CE	CE3 12523/82523 (Until cut-off date listed on page 1-13) <b>OR</b> CE BASIC 11038 (CE BASIC is a revision to CE3) SEABEE COMBAT HANDBOOK V1 12003/82003	CE 3&2 10636-J/80636 (Until cut-off date listed on page 1-13) <b>OR</b> CE INTERMEDIATE 11039 (CE INTERMEDIATE is a revision to CE 3&2) SEABEE COMBAT HANDBOOK V1 12003/82003	CE1 12525/82525 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004

## PART 5

# MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
CM	CM 3&2 10644-G1  SEABEE COMBAT HANDBOOK V1 12003/82003	CM 3&2 10644-G1 SEABEE COMBAT HANDBOOK V1 12003/82003	CM ADVANCED 12528/82528 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004
CT RATINGS	SEE PART 2 OF THIS CATALOG			
DC	DC 3&2 10572/80572		DC 1&C 12222/82222	
DK	DK 3&2 12658/82658		DK 1&C 12660/82660	
DM	DM 3&2 V1 12720/72720 DM 3&2 V3 12722/72722 DM 3&2 V4 12723-A/72723		DM 1&C V1 12720/82720 DM 1&C V3 12722/82722 DM 1&C V4 12723-A/82723	
	NOTE 1: DM Volume 3 is a new <b>ADDED</b> mandatory course requirement for exams beginning September 1999.			
	NOTE 2: DM Volume 4 has been <b>REVISED</b> , separating the NRTC's from the TRAMAN.			
DT	DENTAL ASSISTANT, BASIC 12570/82570	DENTAL ASSISTANT, ADVANCED 12571/82571		
EA	EA3 10696-A/80696-A SEABEE COMBAT HANDBOOK V1 12003/82003	EA2 12540/72540 SEABEE COMBAT HANDBOOK V1 12003/82003	EA1 12540/82540-A NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004
EM Nuclear	NO REQUIREMENTS			
EM Surface	EM 3&2 12164/72164		EM 1&C 12164/82164	

## PART 5

### MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
EN	EN3 10539/80539 EN FUNDAMENTALS V1 12170/82170	EN2 12149/82149	EN 1&C 10543-E1 ENGINEERING ADMINISTRATION 12147/82147	
EO	EO BASIC 12535/82535 SEABEE COMBAT HANDBOOK V1 12003/82003		EO ADVANCED 12537/82537 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004
ET Nuclear (ETN)	NO REQUIREMENTS			
ET Submarine (Navigation) (ETV)	NO REQUIREMENTS			
ET Submarine (Radio) (ETR)	NO REQUIREMENTS			
ET Surface	NO REQUIREMENTS	ET V1 - V9 12411-A 12412/82412 12413-A 12414/82414 12415/82415 12416-A/82416-A 12417/82417 12418/82418 12419/82419	ET SUPV (ET1) 12410/72410	ET SUPV (ETC) 12410/82410
EW	EW 3&2 12478/82478		EW 1&C 12480/82480	

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### MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
FC	FC V1-V5 12403 12404 12405 12406 12407		FC V6 12408 FC SUPERVISOR 12409/82409	
FT	FTG 3&2 12400/82400		FT 1&C 12402/82402	
GM	GM 3&2 12443/72443		GM 1&C 12443/82443	
GSE	GSE3/GSM3 V1 10563/80563 GSE3/GSM3 V2 10564/80564	GSE2 12153/82153	GS SUPERVISOR 12158/82158 ENGINEERING ADMINISTRATION 12147/82147	
GSM	GSE3/GSM3 V1 10563/80563 GSE3/GSM3 V2 10564/80564	GSM2 12157/82157	GS SUPERVISOR 12158/82158 ENGINEERING ADMINISTRATION 12147/82147	
HM	HM 3&2 10669-C/80669		HM 1&C 10670-C/80670	
HT	HT 12219/82219			
IC	IC V1 12160/82160	IC V2 12161/82161	IC V3 12162/82162	
IM	IM 3&2 10193-D/80193		IM 1&C 12202/82202	
IS	IS 3&2 V1 12804/82804 IS 3&2 V3 10273/80273		IS 1&C 12806/82806	
JO	JO 3&2 12704/82704	JO 3&2 12704/82704 Public Affairs Policy and Regulations 13086	JO 1&C 12706/82706	
LI	LI 3&2 10451/80451		LI 1&C 10451/80452	
LN	LN 3&2 12609/72609		LN 1&C 12609/82609	
MA	MA 12740/82740			

## PART 5

# MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

**Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings**

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
MM Nuclear (MMN)	NO REQUIREMENTS			
MM Submarine (Engineering) (MME)	NO REQUIREMENTS			
MM Submarine (Weapons) (MMW)	NO REQUIREMENTS			
MM Surface	MM 3&2 (SURFACE) 12146/82146		MM 1&C (SURFACE) 12145/82145	
MN	MN V1 - V7 12448/82448 12449/72449 12450/72450 12451/82451 12452/82452 12453, 12454		MN V2 - V3, V6, V7 12449/82449 12450/82450 12453, 12454	
MR	MR3 12204-A/72204	MR 2,1&C 12204-A/82204-A		
MS	MS 3&2 12662/72662		MS 1&C 12662/82662	
MT	NO REQUIREMENTS			
MU	NO REQUIREMENTS			
NC(C)			NC(C) 1&C 13068-A	
NC(R)			NC(R) 1&C 12620/82620	
OM	OM 3 10215/70215-A	OM 2 10215/80215-A	OM 1&C 12217/822170	
OS	OS3 10105/80105	OS2 10106/80106	OS 1&C 12126/82126	
PC	PC3 10223/80223	PC2 10222/80222	PC 1&C 12602/82602	
PH	PH BASIC 12700/82700	PH ADVANCED 12701/82701		
PN	PN 3&2 12604/82604		PN 1&C 12606/82606	

## PART 5

# MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
PR	AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision            of AMR            Fundamentals,            12010-B)</b>	PR2 10380/80380 AMR Fundamentals 12010-B (Until cut-off date listed on page 1-13) <b>OR</b> Aviation Maintenance Ratings (AMR) 12017 <b>(AMR is a revision            of AMR            Fundamentals,            12010-B)</b>	PR 1&C 10330/80330	
QM	QM 3&2 12120/72120		QM 1&C 12120/82120	
RM	INTRO TO PROGRAMMING IN BASIC 10079-2 RM TRAINING SERIES, MODULES 1-5 12845, 12846, 12847, 12848, 12849		RM TRAINING SERIES, MODULES 1-5 12845, 12846, 12847, 12848, 12849	
RP	RP3 12616/82616	RP 3&2 MODS 1-3 287-01-45-82 287-02-45-81 287-03-45-83	RP 1&C 10239-A/80239	
SH	SH3 10176/80176	SH2 10177/80177	SH 1&C 10287-F/80287	
SK	SK 3&2 12650/82650		SK 1&C 12652/82652-A <b>(82652-A is a revised course)</b>	
SM	SM 3&2 12104-A/72104-A		SM 1&C 12104-A/82104-A	
STG	STG 3&2 V1 12497/82497 STG 3&2 V2 12498/82498		STG 1&C 12499/82499	
STS	STS 3&2 12486/82486		STS 1&C 12488/82488	

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# MANDATORY COURSES FOR ADVANCEMENT-IN-RATE

Table 3.--Mandatory Rating-Specific Course Requirements for All Ratings

Per BUPERSINST 1430.16 (Advancement Manual), successful completion of Class "A" school fulfills the requirements for completion of the mandatory rate courses when participating in the E-4 examination only (does not apply to CT and PH ratings). SEE ABOVE INFORMATION ABOUT REVISED/ADDED COURSES.

RATING	MANDATORY RATING-SPECIFIC COURSE REQUIREMENTS			
	E-4	E-5	E-6	E-7
SW	SW V1 12529/82529 SEABEE COMBAT HANDBOOK V1 12003/82003	SW V1 and V2 12529/82529 12530/82530 SEABEE COMBAT HANDBOOK V1 12003/82003	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004
TM	TM3 10168/80168	TM2 12435/82435	TM 1&C 10164-D	
UT	UT3 12532/82532 SEABEE COMBAT HANDBOOK V1 12003/82003	UT2 10662/80662 SEABEE COMBAT HANDBOOK V1 12003/82003	UT ADVANCED 12534/82534 NCF/SEABEE 1&C 12543/82543 SEABEE COMBAT HANDBOOK V2 12004/82004	
YN	YN 3&2 12613/82613		YN 1&C 12614/82614	