NTSP S-40-8603D

# NAVY OCCUPATIONAL SAFETY AND HEALTH AND HAZARDOUS MATERIAL CONTROL & MANAGEMENT NAVY TRAINING SYSTEMS PLAN


September 1999

## PREFACE

This Navy Training Systems Plan (NTSP) identifies the manpower, personnel, and training requirements necessary to support the Navy Occupational Safety and Health (NAVOSH) and Hazardous Material Control and Management (HMC&M) Programs. This information will be used for management, planning, programming, and budgeting for the various aspects of the NAVOSH and HMC&M Program Training Support Systems. This training systems plan permits maximum utilization of available resources, promotes continuity, and provides mutual support between various elements of the program to ensure maximum training effectiveness.

This edition of the NAVOSH and HMC&M NTSP addresses all aspects of the NAVOSH and HMC&M Programs including surface ships, submarine, aircraft support operations, and ashore applications. Aviation, nuclear propulsion, and nuclear weapons safety are not included.

This NTSP discusses the safety and health training for personnel who are required to handle hazardous material. It discusses afloat training needed to support the implementation of hazardous material reutilization and inventory management aboard ships. The training needed to implement this program ashore is addressed in the Environmental and Natural Resources Navy Training Systems Plan.

# NAVY OCCUPATIONAL SAFETY AND HEALTH AND HAZARDOUS MATERIAL CONTROL AND MANAGEMENT NAVY TRAINING SYSTEMS PLAN

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## LIST OF ACRONYMS/TERMS

| ACRONYM/TERM | DEFINITION |
|---|---|
| 'A' School | Provides basic technical knowledge and skills (job entry-level performance) |
| AB | Aviation Boatswain's Mate |
| AMSP | Asbestos Medical Surveillance Program |
| ARPM | Assistant Respiratory Protection Manager |
| ATRR | Aviation Training Requirements Review |
| BM | Boatswains Mate |
| BT | Boiler Technician |
| BU | Builder |
| BUMED | Bureau of Medicine and Surgery |
| BUPERS | Bureau of Naval Personnel |
| 'C' School | Provides advanced knowledge, skills and techniques to perform a particular job |
| CANTRAC | Catalog of Navy Training Courses |
| CCA | Curriculum Control Authority |
| CCMM | Course Curriculum Model Manager |
| CD-ROM | Compact Disk - Read Only Memory |
| CEC | Civil Engineer Corps |
| CECOS | Naval School Civil Engineering Corps Officers |
| CEU | Continuing Education Unit |
| CFR | Code of Federal Regulations |
| CHBUMED | Chief, Bureau of Medicine and Surgery |
| CHRIMP | Consolidated Hazardous Material Reutilization and Inventory Management Program |
| CIN | Course Identification Number |
| CINC | Commander in Chief |
| CINCLANTFLT | Commander in Chief, U.S. Atlantic Fleet |
| CINCPACFLT | Commander in Chief, U.S. Pacific Fleet |
| CNET | Chief of Naval Education and Training |
| CNO | Chief of Naval Operations |
| COMDESRON | Commander, Destroyer Squadron |
| COMINEGRU | Commander, Mine Group |
| COMLOGRON | Commander, Logistics Squadron |
| COMLOGGRU | Commander, Logistics Group |
| COMNAVAIRLANT | Commander, Naval Air Forces, U.S. Atlantic Fleet |
| COMNAVAIRPAC | Commander, Naval Air Forces, U.S. Pacific Fleet |
| COMNAVRESFOR | Commander, Naval Reserve Forces |
| COMNAVSEASYSCOM | Commander, Naval Sea Systems Command |

| ACRONYM/TERM | DEFINITION |
|---|---|
| COMNAVSUPSYSCOM | Commander, Naval Supply Systems Command |
| COMNAVSURFLANT | Commander, Naval Surface Forces, U.S. Atlantic Fleet |
| COMNAVSURFPAC | Commander, Naval Surface Forces, U.S. Pacific Fleet |
| COMPHIBRON | Commander, Amphibious Squadron |
| COMPHIBGRU | Commander, Amphibious Group |
| COMSC | Commander, Military Sealift Command |
| COMSUBLANT | Commander, Submarine Forces, U.S. Atlantic Fleet |
| COMSUBPAC | Commander, Submarine Forces, U.S. Pacific Fleet |
| COMSUPRON | Commander, Support Squadron |
| COMSURFRON | Commander, Surface Squadron |
| COMNAVSURFGRU | Commander, Naval Surface Group |
| CSPM | Confined Space Program Manager |
| DCA | Damage Control Assistant |
| DCNO | Deputy Chief of Naval Operations |
| DNEC | Distribution Navy Enlisted Classification |
| DOD | Department of Defense |
| DOT | Department of Transportation |
| Exportable Training | Formal training courses that have been designed for mobility |
| EM | Electrician's Mate |
| EN | Engineman |
| EOOW | Engineering Officer of the Watch |
| EPA | Environmental Protection Agency |
| EPMU | Environmental and Preventive Medicine Unit |
| ET | Electronics Technician |
| FASOTRAGRULANT | Fleet Aviation Specialized Operational Training Group Atlantic |
| FLETRACEN | Fleet Training Center |
| FTC | Fleet Training Center |
| GFEPO | Gas Free Engineering Petty Officer |
| GFE | Gas Free Engineer |
| GFEA | Gas Free Engineer Assistant |
| GMT | General Military Training |
| GS | Gas Turbine Specialist |
| HAZCOM | Hazard Communication |
| HAZMINCEN | Hazardous Material Minimization Center |
| HICS | Hazardous Material Inventory Control System |

| ACRONYM/TERM | DEFINITION |
|---|---|
| HM | Hazardous Material(s) |
| HMC&M | Hazardous Material Control and Management |
| HMIS | Hazardous Material Information System |
| HMUG | Hazardous Material User's Guide |
| HS | Hazardous Substance |
| HT | Hull Maintenance Technician |
| HW | Hazardous Waste |
| IC | Interior Communication Electrician |
| ICW | Interactive Courseware |
| IDC | Independent Duty Corpsman |
| IDP | Individual Development Plan |
| IHO | Industrial Hygiene Officer |
| IMA | Intermediate Maintenance Activity |
| IMI | Interactive Multimedia Instruction |
| IMO | International Maritime Organization |
| JQR | Job Qualification Requirements |
| LTA | Local Training Authority |
| MM | Machinist Mate |
| MPT | Manpower, Personnel, and Training |
| MSC | Medical Service Corps |
| MSC | Military Sealift Command |
| MSDS | Material Safety Data Sheet |
| NAMTRAGRU | Naval Air Maintenance Training Group |
| NAVAIR | Naval Air Systems Command |
| NAVAIRSYSCOM | Naval Air Systems Command |
| NAVEDTRA | Navy Education and Training |
| NAVENPVNTMEDU | Navy Environmental Preventive Medicine Unit |
| NAVENVIRHLTHCEN | Navy Environmental Health Center |
| NAVFAC | Naval Facilities Engineering Command |
| NAVFACENGCOM | Naval Facilities Engineering Command |
| NAVINSGEN | Naval Inspector General |
| NAVMAC | Navy Manpower Analysis Center |
| NAVOSH | Navy Occupational Safety & Health |
| NAVOSHENVTRACEN | Naval Occupational Safety and Health and Environmental Training Center |
| NAVOSHETC | Naval Occupational Safety and Health and Environmental Training Center |

| ACRONYM/TERM | DEFINITION |
|---|---|
| NAVPERS | Naval Personnel |
| NAVSCOLCECOFF | Naval School, Civil Engineer Corps Officers |
| NAVSAFECEN | Naval Safety Center |
| NAVSEA | Naval Sea Systems Command |
| NAVSEASYSCOM | Naval Sea Systems Command |
| NAVSTD | Naval Standard |
| NAVSUP | Naval Supply Systems Command |
| NAVSUPPUB | Naval Supply Publication |
| NAVSUPSYSCOM | Naval Supply Systems Command |
| NAVSURFPAC | Naval Surface Force Pacific |
| NEC | Navy Enlisted Classification |
| NEHC | Navy Environmental Health Center |
| NESHAP | National Emission Standards for Hazardous Air Pollutants |
| NETPDTC | Naval Education and Training Program Development and Technology Center |
| NFESC | Naval Facility Engineering Support Center |
| NIOSH | The National Institute for Occupational Safety & Health |
| NOBC | Navy Officer Billet Classification |
| NAVMAC | Navy Manpower Analysis Center |
| NOIU | NAVOSH Oversight Inspection Unit |
| NOSHIP | Navy Occupational Safety & Health Inspection Program |
| NOTAP | Navy Occupational Task Analysis |
| NROTC | Naval Reserve Officer Training Corps |
| NSTM | Naval Ships Technical Manual |
| NTSP | Navy Training Systems Plan |
| NTRR | Navy Training Requirements Review |
| OCCSTD | Occupational Standard |
| OCS | Officer Candidate School |
| OPNAV | Office of the Chief of Naval Operations |
| OPNAVINST | Chief of Naval Operations Instruction |
| ORM | Operational Risk Management |
| OSH | Occupational Safety & Health |
| OSHA | Occupational Safety & Health Administration |
| OSHATI | Occupational Safety and Health Administration Training Institute |
| PAT | Process Action Team |
| PCO | Prospective Commanding Officer |
| PDA | Principal Development Activity |
| PMT | Preventive Medicine Technician |
| PNEC | Primary Navy Enlisted Classification |

| ACRONYM/TERM | DEFINITION |
|---|---|
| POA&M | Plan of Action & Milestones |
| POM | Program Objectives Memorandum |
| PQS | Personnel Qualification Standard |
| PRESINSURV | President, Board of Inspections & Survey |
| PXO | Prospective Executive Officer |
| QM | Quartermaster |
| QMB | Quality Management Board |
| RASP | Radiological Affairs Safety Program |
| RFR | Radio Frequency Radiation |
| RPM | Respiratory Protection Manager |
| RPPM | Respiratory Protection Program Manager |
| RSO | Radiation Safety Officer |
| SH | Ship Serviceman |
| SHML | Ship's Hazardous Materials List |
| SIMA | Submarine Intermediate Maintenance Activity |
| SK | Storekeeper |
| SM | Signalman |
| SMCL | Submarine Material Control List |
| SN | Seaman |
| SNAP | Shipboard Non-tactical Automatic Data Processing Program |
| SNEC | Secondary Navy Enlisted Classification |
| SOBT | Submarine On Board Training |
| SSC | State Superfund Contracts |
| STEP | Shipboard Training Enhancement Program |
| SUADPS | Shipboard Uniform Automated Data Processing System |
| SUBTRAFAC | Submarine Training Facility |
| SWOS | Surface Warfare Officer's School |
| SWOSCOLCOM | Surface Warfare Officer's School Command |
| SWTRR | Surface Warfare Training Requirements Review |
| TA | Training Agency |
| TAD | Temporary Additional Duty |
| T&E QMB | Training and Education Quality Management Board |
| TM | Torpedoman |
| TSA | Training Support Agent |
| VTC | Video Teleconferencing |

| ACRONYM/TERM | DEFINITION |
|---|---|
| VTT | Video Teletraining |
| WHE | Weight Handling Equipment |
| YN | Yeoman |

# I. TECHNICAL PROGRAM DATA

## Part I.A. PROGRAM SUMMARY

1. Title – Nomenclature – Acronym. Navy Occupational Safety and Health (NAVOSH) and Hazardous Material Control and Management (HMC&M).

2. Program Element. CNO (N45) budget element number for NAVOSH is 0804731N.

**Part I.B. SECURITY CLASSIFICATION.** The NAVOSH Program and its elements are unclassified.

## Part I.C. NTSP PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor ..... CNO (N4)

CNO Resource Sponsors ..... CNO (N45, N85, N86, N87, N88)

Principal Development Activity (PDA) ..... CNET

Training Agent (TA) ..... CINCLANTFLT
..... CINCPACFLT
..... CNET
..... BUMED

Training Support Agent (TSA) ..... CNET

Manpower, Personnel and Training (MPT) Mission Sponsor ..... CNO (N1)
..... BUPERS-PERS-22

Director of Naval Training ..... CNO (N7)

Chief of Naval Personnel ..... BUPERS (PERS-4
..... PERS-5, PERS-40,
..... PERS-41, NODAC 101/201

## Part I.D. SYSTEM DESCRIPTION

1. **Operational Uses**. Navy policy is to enhance operational readiness and mission accomplishment by establishing an aggressive Occupational Safety and Health (OSH) Program. This program will reduce occupational injuries, illnesses, and deaths; will reduce material loss or damage; and will maintain safe and healthful working conditions for Navy personnel.

The NAVOSH Program supports operational readiness by enabling Navy personnel, ashore and afloat, to establish and maintain a safe and healthful workplace and to provide leadership, guidance, technical direction, and resources to protect people, prevent mishaps, achieve regulatory compliance, and control hazards, hazardous occupational exposures, and costs.

The NAVOSH Program addresses the elimination or control of hazards that can result in immediate injury or death. The occupational health aspects of this program is concerned with the acute effects of exposure to hazardous material (HM) and (more importantly in many instances) the long-term exposure to HM and harmful physical agents (e.g., noise, heat, radiation) plus the treatment of work-related injuries and illnesses.

2. **Foreign Military Sales.** Not applicable

**Part I.E. DEVELOPMENTAL TEST (DT) and OPERATIONAL TEST (0T)**

Not applicable.

**Part I.F. SHIP/AIRCRAFT EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED**

Not applicable.

**Part I.G. DESCRIPTION OF PROGRAM**

1. **Functional Description**. The NAVOSH Program addresses the maintenance of safe and healthful conditions in the workplace or the occupational environment. It is applicable to all Navy civilian and military personnel and operations, ashore or afloat.

a. The principal elements of the NAVOSH Program are:

(1) Hazard identification and surveillance
(2) Hazard prevention and deficiency abatement
(3) Program evaluation
(4) Mishap investigation and reporting
(5) Training
(6) Compliance with safety standards and regulations
(7) Comprehensive occupational health surveillance

b. HMC&M addresses the life-cycle control and total quality management of HM required and used by the Navy. The principal HMC&M elements are:

(1) Development of HM inventory and authorized use lists
(2) Collection and use of Material Safety Data Sheets (MSDSs)
(3) Properly and completely labeled containers of HM and hazardous waste (HW)
(4) The safe uses of HM in the workplace
(5) HM inventory control - controlled acquisition, receipt, distribution, issuance, and shipment of HM
(6) Proper HM stowage
(7) Competent management of HM and HW including reutilization
(8) Emergency response planning
(9) Shore activity oversight of HM activities
(10) Program planning and documentation
(11) Accurate recordkeeping and reporting
(12) Effective ship-to-shore interfaces
(13) Shelf life management.

2. **Physical Description**. Directives and instructions to implement Federal laws and OSH regulations are issued through the Department of Defense, the Secretary of the Navy, and the Chief of Naval Operations (CNO). Primary responsibility for implementing the NAVOSH and HMC&M Programs rests with the chain of command; that is, commanding and executive officers, department heads, division officers or division managers, division leading petty officers, work center supervisors, and the individual sailor or civilian worker. The occupational safety and health organization provides a means of establishing and implementing the NAVOSH Program as an internal oversight/support function. The safety officer (OSH manager) reports directly to the commanding officer in matters relating to hazardous and/or unsafe conditions or operations through the executive

officer for matters relating to program administration, program deficiencies, and corrective action status. Figures I-1 and I-2 describe the generic safety organization for ship and shore commands, respectively.

3. **New Development Introduction.** Not applicable

4. **Significant Interfaces**. The NAVOSH Program interfaces with, and impacts upon, all other organizational elements and systems. NAVOSH and HMC&M requirements are an inherent part of all management planning, operational supervision, operational performance, systems design, and systems maintenance.

Implementation of the NAVOSH Programs will enhance operational readiness and availability by reducing mishaps and increasing productivity.

5. **New Features, Configurations, or Material.** This **NTSP** formally documents the manpower and training requirements applicable to the NAVOSH Program. It also identifies the organizations and resources required to maintain the associated training support system.

This **NTSP** also implements the Training and Education Strategy of the NAVOSH Strategic Plan. This strategy mandates quality occupational safety and health training that meets the needs of Navy personnel and infuses occupational safety and health within the chain of command as a routine behavior. The strategy supports the Naval Occupational Safety and Health, and Environmental Training Center (NAVOSHENVTRACEN) as a center of excellence for NAVOSH and HMC&M training and education.

## Part I.H. CONCEPTS

1. **Operational Concept**. NAVOSH Program management is a command responsibility and is implemented through the chain of command. Each command echelon and supervisory level has primary responsibilities for implementing and maintaining the NAVOSH Program. The commanding officer has the ultimate responsibility for safety and health matters. The safety officer (occupational safety and health manager at shore activities), guided by the commanding officer, formulates and manages the command's NAVOSH Program. The safety officer/OSH manager will monitor the command's activities, facilities, and equipment and provide the impetus for keeping these programs vital and visible to all hands. This monitoring is performed through the chain of command

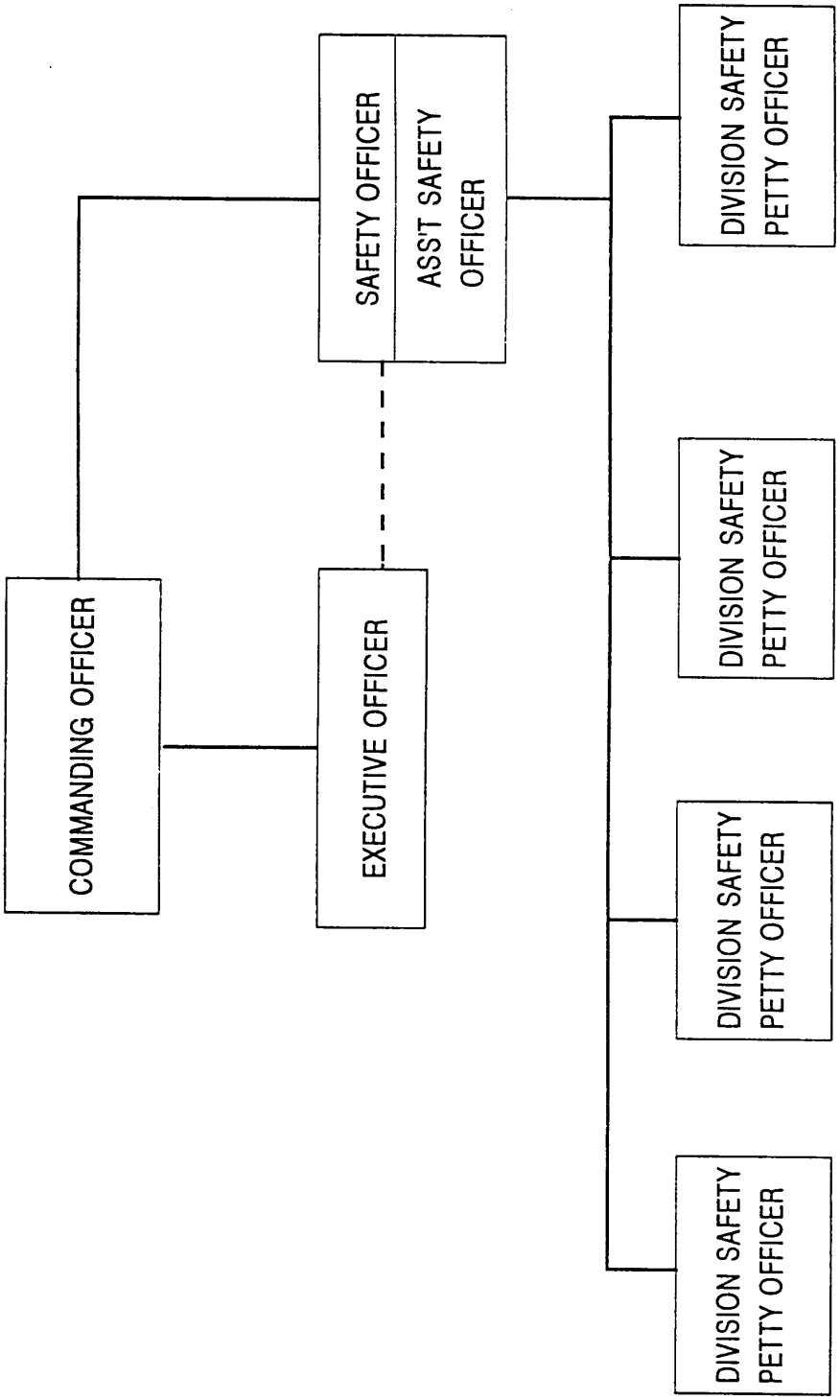


Figure I-1
Typical Ship Safety Organization

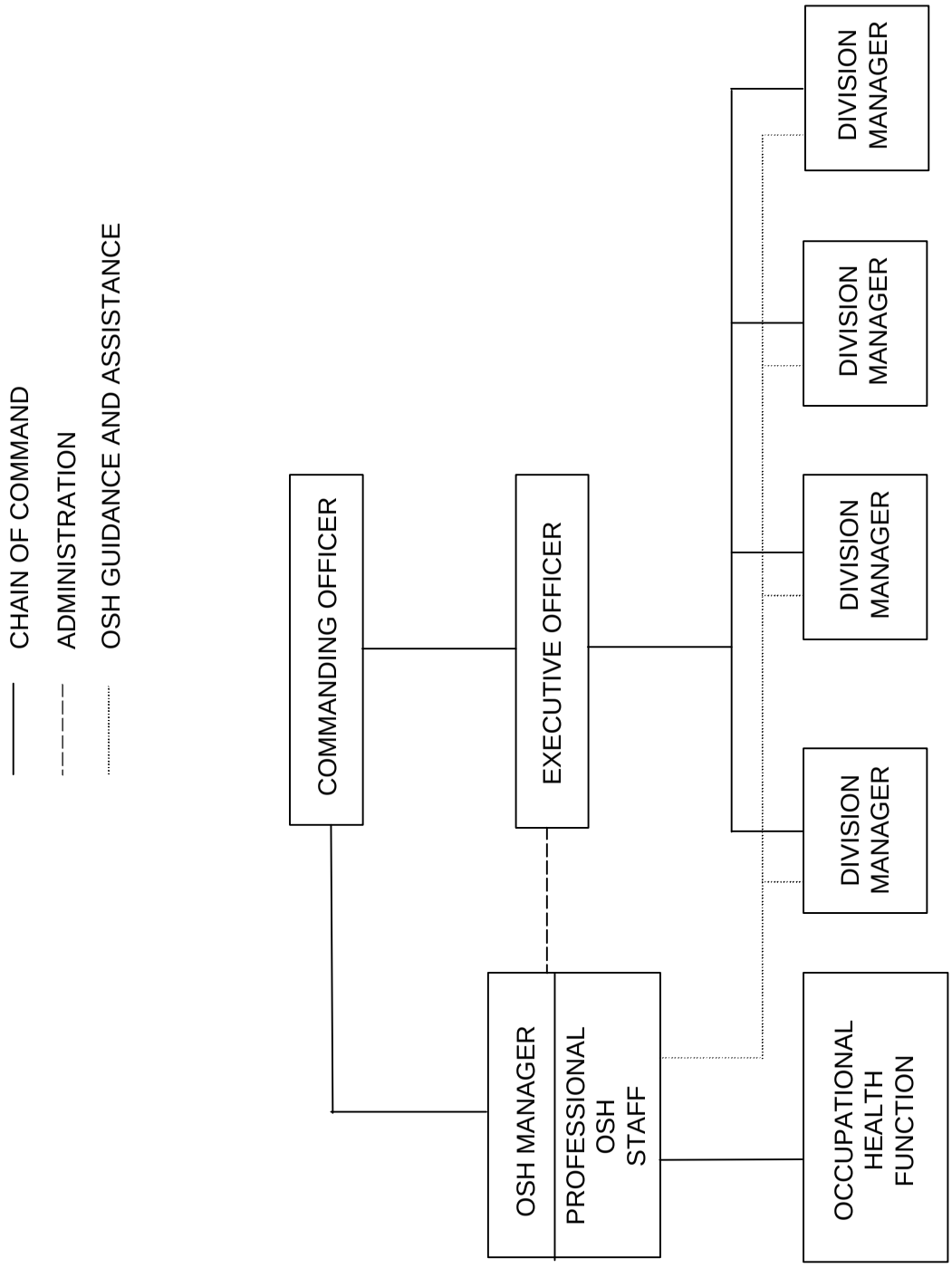


Figure 1-2
Typical Shore Safety Program

and includes other personnel, such as, the 3M Coordinator, the master-at-arms force, facility fire personnel, division safety petty officers, damage control petty officers, HM coordinators, HM Minimization Center (HAZMINCEN) supervisors, and the medical department.

2. **Maintenance Concept**

a. **Administrative/Technical Maintenance**. The NAVOSH and HMC&M Training Support System will be maintained on an administrative/technical basis, within CNET, through the course curriculum model manager (CCMM) for each individual course. This manager plans for the efficient delivery of required training, documents accomplishments and shortfalls, and assumes responsibility for the overall quality and effectiveness of training. The NAVOSHENVTRACEN (a subordinate command to CNET, the Training Support Agent (TSA)), shall perform this important function for the Navy.

Specifically, CNET, through the NAVOSHENVTRACEN, shall conduct triennial reviews of all NAVOSH and HMC&M courses (with selective technical audits of NAVOSH and NAVOSH-related courses) as a part of the Navy training requirements review (NTRR) effort to ensure that courses are mutually supportive, current, effectively taught, and not redundant. NAVOSHENVTRACEN, as needed, may ask Echelon 2 headquarters commands to assist in conducting technical audits of courses in response to comments on curriculum. A technical audit shall consist of, at least, a subject matter expert review of the instructor's guides to ensure that taught material is appropriate and current. Selected courses shall receive an "in classroom" audit to ensure that material is properly presented. The NAVOSHENVTRACEN shall provide copies of audit results to the Training and Education Quality Management Board (T&E QMB) for information. BUMED shall review and audit courses taught at the Navy Environmental and Preventive Medicine Units (NAVENPVNTMEDUs), keeping the NAVOSHENVTRACEN and T&E QMB apprised of the status of reviews and audits and of any action being taken. CNET will provide technical assistance to training activities whenever a significant revision to a course is accomplished. CNET, supported by BUMED and the NAVOSHENVTRACEN, will be the principal technical, quality assurance, and training development agent with OPNAV review and approval. The Naval Safety Center (NAVSAFECEN) shall be a technical advisor to CNET, particularly in afloat safety. The NAVOSHENVTRACEN shall ensure that NAVOSH and HMC&M training publications, personnel qualification standards (PQSs), Job Qualification Requirements (JQRs), and on board training materials are current, effective, and properly distributed.

b. **Training and Education Quality Management Board (T&E QMB)**. The T&E QMB supports the Training and Education Strategy of the NAVOSH Strategic Plan and provides for the implementation and management of the **NTSP**. This Training and Education

QMB has chartered four working groups (Process Action Teams (PATs)). These are the Air NAVOSH Training Working Group, Shore NAVOSH Training Working Group, Submarine NAVOSH Training Working Group, and the Surface Ship NAVOSH Training Working Group.

(1) The T&E QMB consists of representatives of the Chief of Naval Operations (N454 and N869); Chief of Naval Education and Training; Commander in Chief U.S. Atlantic Fleet; Commander in Chief U.S. Pacific Fleet; Commander, Naval Safety Center; Chief, Bureau of Medicine and Surgery; Navy Inspector General; President, Board of Inspection and Survey; the Systems Commands (Commander, Naval Air Systems Command; Commander, Naval Facilities Engineering Command; Commander, Naval Sea Systems Command; Commander, Naval Supply Systems Command; Commander, Space and Naval Warfare Systems Command) and Headquarters Marine Corps (HQMC). NAVOSHENVTRACEN will serve as a technical adviser to the QMB. The NAVOSH Quality Council will determine the T&E QMB chair. The QMB may invite other persons, as appropriate, to their meetings for providing information. They will routinely invite working group chairs to attend QMB meetings and report on the activities of their working groups. A CINCUSNAVEUR representative may participate in the QMB as travel funds permit. Minutes shall be kept and shall be distributed to all interested commands. The QMB shall meet at least semiannually at a location to be determined by the board. Travel for QMB meetings shall be funded by the participating commands. The T&E QMB shall:

(a) Assess the effectiveness of NAVOSH training.

(b) Define NAVOSH training requirements.

(c) Recommend priorities for NAVOSH training courses and support material development. Produce an annual NAVOSH and HMC&M training program plan that reflects these priorities.

(d) Identify and recommend action to solve NAVOSH training issues. Such issues include: lack of formal training or inadequate formal training; on board training support material deficiencies; inability to train sufficient personnel to meet requirements; training mobility; new or changing requirements; establishment/validation of professional development training paths.

(e) Review NAVOSH and HMC&M **NTSP** requirements. Monitor progress of required actions. Flag actions for which established deadlines will not be met. Recommend corrective action, as appropriate.

(f) Recommend changes to the **NTSP** as a result of performing the requirements of paragraphs (a) through (e).

(g) Review progress on accomplishment of goals and objectives of the NAVOSH Strategic Plan Training and Education Strategy. Recommend modifications of the Strategy to the Quality Council as appropriate.

(h) Provide oversight of NAVOSH issues, coordinating with local training authorities (LTAs).

(2) **Working Groups**. Membership of the air, submarine, and surface ship working groups consists of representatives of the appropriate Type Commander, the OPNAV resource (training) sponsor, the appropriate supporting systems commands, and the Naval Safety Center. The NAVOSHENVTRACEN shall act as an advisor to the working groups. Membership of the shore working group consists of representatives from all of the systems commands, the Fleet Commanders in Chief, BUMED, CNET, Naval Safety Center, NAVOSH Oversight Inspection Unit, and two shore activity representatives selected by the working group. The T&E QMB can change a working group membership by a majority vote. The working group members will determine the chair of the working group. Working groups shall hold meetings at least semiannually at a location members decide. The working group will produce minutes for each meeting and upon approval of the members, provide them to the T&E QMB and all interested commands. The working groups, in the area of their interest (air, shore, submarine, surface ship), shall:

(a) Assess the effectiveness of NAVOSH and HMC&M training.

(b) Recommend priorities for NAVOSH training courses and support material development to the T&E QMB.

(c) Identify NAVOSH and HMC&M training issues. Recommend action to resolve identified issues to the T&E QMB.

(d) Monitor progress of required NAVOSH and HMC&M **NTSP** actions. Identify actions for which established deadlines will not be met and recommend required corrective action to the T&E QMB.

3. **Manning Concepts**

a. **Major Command Industrial Hygiene Officer Support**. To improve the visibility of the NAVOSH Program, major commands require staff expertise to assist and evaluate these programs for subordinate commands. The following is the concept for the assignment of Medical Service Corps Officer (NOBC 0862, Biomedical Science; subspecialty code 1861, Industrial Hygiene) to the staffs of major commands:

| COMMAND | RANK | REMARKS |
|---|---|---|
| CNO | O-4 | Filled |
| CINCLANTFLT | O-5 | Filled |
| CINCPACFLT | O-5 | Filled |
| CNET (NAVOSHETC) | O-5 | Filled |
| | O-4 | Filled |
| | O-3 | Filled |
| CNET (NAVOSHETC) | O-3 | West Coast detachment. Filled |
| COMNAVSEASYSCOM | O-5 | Filled |
| COMNAVSUPSYSCOM | O-5 | Not desired |
| CHBUMED | O-6 | Filled |
| COMNAVAIRLANT | O-4 | Filled |
| COMNAVAIRPAC | O-4 | Filled |
| COMNAVSURFLANT | O-4 | Filled |
| COMNAVSURFPAC | O-4 | Filled |
| COMSUBLANT | O-4 | Filled |
| COMSUBPAC | O-4 | Filled |

b. **Surface Ships**.

(1) Safety Officers. Primary duty billet safety officers are detailed to MCS, LHA, LHD, AS, and AOE ship-types. The primary duty safety officer billets aboard ASs are IHOs. Aboard the LHA, LHD, and MCS ship classes, the primary duty safety officer is a naval aviator who is also the aviation safety officer. On AOE class ships, the primary duty safety officer is a line officer. Primary duty safety officers are assigned to this billet for their tour length. CNO directed that safety officer assignments in all other surface ships be a collateral duty assignment. A commissioned officer of department head status and seniority will fill this billet. On small ships with limited officer manning, the Type Commander may grant a waiver allowing the assignment of a chief petty officer as safety officer. On ships with a collateral duty safety officer, OPNAVINST 5100.19C strongly recommends that a chief petty officer (E-7/E-8),

identified from existing billets and having a secondary Navy Enlisted Classification (SNEC) of 9571 (Safety Technician), be assigned as an assistant to the safety officer. Collateral duty safety officers are generally assigned for their tour aboard ship. In 1998, COMNAVSURFPAC and BUMED performed a pilot study to determine the feasibility of assigning IHOs to large-deck amphibious ships. This pilot study was successful and letters have been generated by COMNAVSURFPAC and COMNAVSURFLANT on recommendations. These recommendations indicate that assignment of an IHO to COMPHIBGRU TWO and COMPHIBGRU THREE should be considered. Billet compensation was not offered. BUMED will decide how to address this recommendation. This study will be complete in June 1999.

(2) Division Safety Petty Officers. Ships must assign a petty officer (E-5/E-6) from existing billets by each division officer to serve as division safety petty officer. This person is required to assist the division officer in the performance of his duties and provide on board indoctrination training to division personnel. The 1995 NTRR for Afloat Safety based training throughput for division safety petty officers on retaining personnel assigned this billet for 5 years, the length of a sea tour for an SK2. However, normal shipboard practice is to rotate division safety officer assignments every 12-18 months. The Afloat Safety Training Review conducted in February 1998 determined that personnel assigned to ships in an HMC&M technician billet should be rotated as follows:

| Type Commander | Rotation Period (mos.) |
|---|---|
| COMNAVAIRLANT | 12 |
| COMNAVAIRPAC | 12 |
| COMNAVSURFLANT | 18 |
| COMNAVSURFPAC | 18 |
| COMSUBLANT* | 12 |
| COMSUBPAC* | 12 |

* Submarine tenders only

(3) Shipboard HMC&M. All ships must have a commissioned officer assigned as the HM coordinator as a collateral duty. Small ships and those with limited officers assigned may assign a chief petty officer to this position with Type Commander approval. At the recommendation of the Hazardous Material Afloat Program, CNO now requires in OPNAVINST 5100.19C, that ships' supply officers be assigned collateral duty as HM coordinator. The supply officer will normally perform these duties for the length of tour assignment. Some ships may assign an assistant HM coordinator.

Surface ships, frigate and larger, must establish a hazardous material minimization center (HAZMINCEN). Ships' supply departments will manage these centers. Ships must have at

least one petty officer (E-5 through E-7) trained and designated as a HMC&M technician (SNEC 9595) to support shipboard HM reutilization and inventory management efforts. The HMC&M technician should be assigned as HAZMINCEN supervisor. Additional HMC&M technicians should be assigned as required by ship size, mission, or Type Commander guidance. The Afloat Safety Training Review conducted in February 1998 determined that personnel assigned to ships in an HMC&M technician billet should be rotated as follows:

| Type Commander | Rotation Period (mos.) |
|---|---|
| COMNAVAIRLANT | 12 |
| COMNAVAIRPAC | 12 |
| COMNAVSURFLANT | 18 |
| COMNAVSURFPAC | 18 |
| COMSUBLANT | 18-24 |
| COMSUBPAC | 18-24 |

c. **Afloat Staffs**. Non-deploying surface ship squadron and group staffs shall have a line officer assigned as a primary duty safety officer. This officer shall provide occupational safety and health assistance and oversight to assigned ships. Other surface ship squadron and group staffs shall have a collateral duty safety officer assigned. All surface ship afloat staffs shall also assign a collateral duty HM coordinator. IHOs are also assigned to the Readiness Support Groups for NAVOSH and HMC&M support to assigned ships.

d. **Aviation**

(1) **Ships**

(a) Ship Safety Department. Primary duty billet safety officers are detailed to CV and CVN ship types. This officer also serves as the aviation safety officer. In addition, primary duty assistant safety officer billets filled by Medical Service Corps IHOs (2300, NOBC/SSC 0862/1861) are detailed to CVs/CVNs. Safety department assistants shall be assigned according to the current ship's manning document. These assignments shall consist of, at a minimum, a safety department supervisor; a BM; an AB; an ET, AT, or EM; an MM or other engineering rate; an AO; and a YN. In addition, senior petty officers (E-5 or above) shall be assigned from existing billets by each ship's division as division safety petty officers. Aboard aircraft carriers, each department head is the departmental safety officer and each division officer is the division safety officer.

(b) HMC&M. Aircraft carriers shall assign a Supply Corps officer as HM coordinator. Each aircraft carrier has a consolidated HAZMINCEN. A SNEC 9595 person shall be assigned to properly manage and supervise the operation of the HAZMINCEN. Other

SNEC 9595 personnel shall be assigned as HAZMINCEN technicians to assist in the operation and management of the center. Manpower requirements for a CVN 68 class ship are 18 persons assigned to the HAZMIN Center. Five of the 18 billets require the SNEC 9595. The ship shall fill the remainder of the billets by personnel temporarily assigned to the HAZMINCEN from other departments, including air wing personnel, when embarked.

(2) **Units**. Each functional wing/squadron has a billet for a primary duty safety officer (prerequisite: graduate of the Aviation Safety Officer course). The wing/squadron will assign a graduate of the *Aviation Safety Specialist* course as safety petty officer. Each squadron shall have SNEC 9595 personnel assigned as required by its manning document.

e. **Submarines**. Submarines will have a collateral duty safety officer assigned. Due to their small crews, no requirement exists for division safety petty officers aboard submarines. The ship's supply officer will be the HM coordinator. Each submarine leading storekeeper will receive HMC&M technician training. No requirement exists for a submarine HAZMINCEN. Supporting submarine groups will have a collateral duty safety officer and HM coordinator assigned.

In 1997, Atlantic Fleet submarine squadrons reorganized due to decreasing numbers of ships in each squadron. This reorganization removed the collateral duty safety officer billet from the squadron staff. The T&E QMB tasked the COMSUBLANT representative with determining how ship safety would be addressed at the squadron level. Submarine Squadrons 16 and 20 named the assistant material officer as the safety officer. For remaining squadrons, the Submarine Support Unit for each port will provide submarine/NAVOSH support.

f. **MSC Vessels (Civilian Mariner (CIVMAR) Operated).** MSC vessels assign the First Officer as the vessel's safety officer on a collateral duty basis. Where a Medical Services Officer is also assigned, this officer will be a collateral duty assistant to the safety officer. The supply officer, or the first officer on ships without a supply officer, will have the collateral duty of HM coordinator. No requirement for HMC&M technicians exists aboard MSC vessels.

g. **Shore**

(1) **Occupational Safety and Health (OSH) Offices**. Guidance on the staffing of OSH offices is provided in OPNAVINST 5100.23E, Section 0303c. The staffing criteria in this section are not mandatory, but provide a method of determining requirements to perform necessary OSH functions. The measure of adequate staffing is whether all

designated functions are being performed effectively and strong mishap prevention programs are implemented.

(2) **Industrial Hygiene Staffing**. Industrial hygiene staffing is based on the total number of military and civilian personnel supported by the cognizant medical command. It considers the degree of hazard associated with various jobs by categorizing activities into five risk classifications. It also recognizes the division of labor between supporting shore activities and ships. BUMED organizations that directly support line activities can determine staffing for industrial hygienists by using the guidance provided in OPNAVINST 5100.23E, Section 0306c(3).

(3) **Occupational Health Staffing**. Occupational health staffing applies to two specific professional categories: occupational health physicians and occupational health nurses. The staffing requirements for occupational health physicians are found in OPNAVINST 5100.23E, Section 0306c(1) and the staffing for occupational health nursing and health technician staff can be found in Section 0306c(2). The guidance for staffing is based on published guides for similar programs, anticipated demand for physician services when applicable Department of Defense (DOD) instructions are fully implemented, and on review of physician-to-population ratios at regional medical commands. The guidance provides a staffing level that allows BUMED organizations to implement all medical components of the NAVOSH Program at a high level of quality consistent with progressive management of the Navy's industrial and fleet support programs. It conforms to the Federal Personnel Manual guidelines for physician staffing in the low-risk category and provides additional staffing for the high-risk category.

h. **Instructors**

(1) **Surface Warfare Officers School**. Surface Warfare Officer's School instructor billets for conducting the Afloat Safety Officer course have been filled.

(2) **Shore/NAVOSHENVTRACEN**. CNET established the NAVOSHENVTRACEN in Norfolk, VA with a staff of three officers, two enlisted, and 14 civilians for NAVOSH and HMC&M training, including IHOs assigned as commanding and executive officers. These personnel provide afloat and shore NAVOSH and HMC&M training, quality assurance, new NAVOSH and HMC&M course development, modification of existing NAVOSH courses to improve training quality, management of shore NAVOSH training, and other tasks as assigned by CNET. The NAVOSHENVTRACEN established a West Coast Department, called NAVOSHENVTRACEN WEST, on the Naval Air Station, North Island, CA.

This department has one officer, two enlisted and two civilian employees for NAVOSH and HMC&M training in addition to the NAVOSHENVTRACEN manning.

During the February 1998 Afloat Safety Training Review, the participants determined the classroom throughput necessary to meet fleet training needs. In order to support these needs, the NAVOSHENVTRACEN determined it would require 13 additional instructor billets. The resources for these billets would come from the following resource sponsors:

| Resource Sponsor | N85/86 | N87 | N88 |
|---|---|---|---|
| Manpower Requirements | 8 | 1 | 4 |

## 4. Training Concept

### a. Initial Training

(1) **Afloat NAVOSH and HMC&M Training.** Surface ship basic NAVOSH and HMC&M training begins in officer and enlisted accession programs. This training must be a part of Apprentice Training curricula and Naval Academy, Naval Reserve Officer Training Corps, and Officer Candidate School (OCS) instruction. CNO (N7) and CNET must triennially review these curricula to ensure that NAVOSH training is adequate and make necessary curricula revisions. In addition, CNET working with COMNAVRESFOR must review Naval Reserve Personnel accession training triennially.

The purpose of NAVOSH training at the accession level is to provide new officer and enlisted personnel with a knowledge of the program including, program objectives, where to obtain information regarding protection (whether ashore or afloat), and sufficient information to protect themselves in their first hours at their first command. The Naval Safety Center reviewed apprentice training in 1992, and CNET incorporated NAVOSH training into each apprentice curricula. Apprentice training is undergoing significant modifications and restructuring. CNET must work with CNO (N7) to ensure that the Navy provides suitable NAVOSH and HMC&M training to enlisted personnel during this training period. The NROTC Program instituted NAVOSH training in 1992. The NAVOSH and HMC&M training was incorporated into OCS in FY98. The Naval Academy indicated that sufficient time is not available in its course of instruction to accomplish either NAVOSH or HMC&M training. However, ergonomics evaluations and training at the Naval Academy began in FY98. As a result, CNO (N45) will pursue adding other NAVOSH topics into the curricula in the future.

NAVOSH and HMC&M (afloat) training must be an integral part of occupational skills training for both officer and enlisted personnel. This training should build on and reinforce accession-level training. CNET must include NAVOSH and HMC&M standards, safe work practices, and emergency procedures appropriate to the individual in this level of training. NAVOSH training should be planned for the following occupational skills training:

(a) **Enlisted 'A' and 'C' Courses**. These occupational skills courses should cover job-related NAVOSH requirements. CNET tasked NAVOSHENVTRACEN to conduct reviews of 'A' and 'C' schools as a part of the Surface Warfare Training Requirements Review (SWTRR), the Aviation Training Requirements Review (ATRR), or Navy Training Requirements Review (NTRR) process. Specific action shall be taken regarding the following schools:

1. **Storekeeper (SK), Aviation Storekeeper (AK) and Ship Serviceman (SH) 'A' Schools**. These schools must ensure that the HM requirements of OPNAVINST 5100.19C are addressed. The T&E QMB tasked NAVSUPSYSCOM to conduct a technical audit of these courses and report the results to them. The curricula must contain the following material:

a. Introduction to the proper procedures for requisitioning, receipt, transfer and stowage of hazardous material and for the collection, stowage and transfer of hazardous waste

b. Open purchase procedures for hazardous material

c. Hazardous material minimization techniques

d. Labeling requirements for HM

e. Use of Material Safety Data Sheets (MSDSs), Hazardous Material Information System (HMIS) (CD-ROM), and the Hazardous Material User's Guide (HMUG) (P45-110-91)

f. Hazardous Material Reutilization and Inventory Management.

2. **Storekeeper (SK), Aviation Storekeeper (AK) and Ship Serviceman (SH) 'C' Schools**. Since major changes were made in 1994 to OPNAVINST 5100.19C, the T&E QMB tasked NAVSUPSYSCOM to conduct a technical audit of these courses and report the results. The curricula for these schools should contain the basic

requirements for HMC&M and address the supervisor's responsibilities in HM control. This training will include the following topics as a minimum:

a. OPNAVINST 5100.19C, Chapters B3 and C23.

b. Marking (labeling), handling, stowage, spill response, and disposal procedures relative to HM.

c. MSDSs, HMIS (CD-ROM) and the HMUG.

d. Maintenance of HM at or below authorized levels.

e. Ship's Hazardous Materials List (SHML).

f. Collection and handling of used/excess hazardous material.

g. Compatibility and segregation of HM.

h. Personnel Training.

i. Hazardous material reutilization and inventory management, including HAZMIN Center operations

j. Shelf life management.

(b) **Surface Warfare Officers School (SWOS)**. The SWOS Division Officer, Department Head and Prospective Executive Officer/Prospective Commanding Officer (PXO/PCO) courses provide advanced knowledge including implementation and management training for the NAVOSH topics. In particular, SWOS incorporates HM management emphasis (including marking, handling, stowage, spill response, disposal of HM, MSDSs, maintenance of HM below authorized levels, the SHML, HM reutilization and inventory management, and personnel training requirements) in all facets of training. NAVOSHENVTRACEN routinely provides SWOS with appropriate NAVOSH information for inclusion in the above course curricula. Additionally, the SWOS Department Head curriculum includes the material required for Afloat Safety Officer. The staff also teaches stand-alone courses of the Afloat Safety Officer for other designated officer and enlisted personnel. The NAVOSHENVTRACEN will audit SWOS Afloat Safety Officer and other NAVOSH and HMC&M training on a triennial basis as a part of the SWTRR/NTRR process. The resource sponsor for this training is N86.

(c) **Submarine School**. Enlisted and officer submarine personnel require basic NAVOSH knowledge. In addition, officers require NAVOSH implementation and management training. In particular, submarine training should include awareness of submarine management efforts regarding HM and submarine respiratory protection practices. During FY90/91, reviews of the curricula for *Basic Enlisted Submarine School* (A-130-0011)

and the *Submarine Officer Basic Course* (A-2E-0044) were conducted. As a result of the review, Submarine School determined that insufficient time was available within the courses of instruction to adequately address all NAVOSH topics. Consequently, Submarine On Board Training (SOBT) (COMSUBGRU TWO) developed on board training to be used by submarines as a part of School of the Boat training to meet this training requirement. The resource sponsor for this training is N87.

(d) **Supply Corps School**. Supply Corps School Officer Basic and Department Head training courses present NAVOSH and HMC&M advanced knowledge and implementation and management training tailored to Supply Corps officer shipboard duties. The Supply Corps School incorporated the Afloat HM Coordinator (A-8B-0008) course into the Basic Course and refresher training on HMC&M into the Department Head Course. NAVOSHENVTRACEN, as the Afloat HM Coordinator Course Curriculum Model Manager (CCMM), assisted the school with material incorporation and updates the course to reflect changes in OPNAVINST 5100.19C. The resource sponsor for this training is N4. Supply Corps School Officer NAVOSH and HMC&M training shall include the following topics as a minimum:

1. OPNAVINST 5100.19C, Chapters B3 and C23.
2. Marking (labeling), handling, stowage, spill response, and disposal procedures relative to HM/HW.
3. MSDSs.
4. Maintenance of HM at or below authorized levels.
5. SHML.
6. Collection and handling of used/excess HM.
7. Compatibility and segregation of HM.
8. HM reutilization and inventory management, including operation of a HAZMIN Center
9. Personnel Training.
10. Heat stress as it applies to galley, scullery, and laundry operations.
11. Equipment tagout.
12. Electrical safety.

Afloat personnel, some from the supply community, reported problems with the quality and effectiveness of HMC&M training. Therefore, in 1998, the T&E QMB tasked NAVOSHENVTRACEN and NAVSUPSYSCOM to evaluate the training at the Supply Corps School and determine how this training and student retention could be improved.

(e) **Naval Standards and Occupational Standards.** NAVPERS 1806E, Manual of Navy Enlisted Manpower and Personnel Classifications, contains standards that are a systematic listing of minimum capabilities that the Navy expects and requires of individuals within each enlisted rating. The publication divides standards into two categories: Naval Standards (NAVSTDs) and Occupational Standards (OCCSTDs). NAVSTDS are applicable to all Navy ratings while OCCSTDs are applicable to a specific rating. The Navy Manpower Analysis Center (NAVMAC) develops, services, and maintains both NAVSTDs and OCCSTDs.

1. Naval Standards generally express the non-rating specific knowledge requirements for enlisted personnel in pay grades E-2 through E-9. NAVSTDs form the basis for implementing and supporting actions for recruit training, military requirements training, and advancement. They express requirements for knowledge and abilities in which individuals must be proficient though their present duty assignment may not

require the use of that knowledge or of those abilities. The Navy requires enlisted personnel to demonstrate their attainment of knowledge described by a NAVSTD as part of the advancement process. NAVSTDs now include NAVOSH and HMC&M topics. NAVOSHENVTRACEN shall continue to review NAVSTDs during their normal review cycle to ensure they include appropriate and current NAVOSH and HMC&M policy and regulations.

2. Occupational Standards express the Navy's minimum requirements for enlisted occupational skills established by manpower and personnel managers. They form the basis for implementing and supporting actions for personnel, training, advancement, and distribution. The knowledge required to perform a task is inherent to the proper performance of the task. Specific knowledge required to perform a task may be derived from task analysis data used in developing training programs and advancement examinations. NAVMAC has upgraded OCCSTDs to include NAVOSH and HMC&M topics. The NAVOSHENVTRACEN shall review OCCSTDs for all ratings in coordination with NAVMAC to ensure that NAVOSH and HMC&M topics are adequately addressed. They should accomplish this through the scheduled Navy Occupational Task Analysis (NOTAP) survey process.

(2) **Shore NAVOSH and HMC&M Training.** The Navy provides initial NAVOSH awareness and HMC&M program requirements training to all military and civilian employees. Military employees shall receive this training as described in paragraph I.H.4.a. Civilian employees shall normally receive 1 hour of initial (awareness) NAVOSH training at their first Navy activity. As a minimum, this training must give personnel sufficient knowledge for their effective participation in the activity's NAVOSH and HMC&M programs. Training for new employees shall include:

(a) Command and/or local policy on occupational safety and health.

(b) Work unit policy on occupational safety and health.

(c) Individual responsibility for safety and health.

(d) Awareness of hazards common to the individual's worksite, trade, occupation, or task.

(e) Employee reporting procedures for hazardous operations/conditions.

(f) Specific hazards of chemicals/materials used in the workplace, and the activity's HAZCOM plan.

(g) An introduction to the local occupational health program, including how to obtain occupational medical assistance, routine medical evaluations required, and procedures to follow in case of occupational illness or injury.

(h) PPE requirements for the job.

The T&E QMB tasked the Shore Working Group with reviewing and revising the *NAVOSH Training Guide for Shore Activities* – NAVEDTRA 10092) to ensure such training is adequate. The Shore Working Group recently reviewed the Training Guide and determined that material within is current and appropriate with the exception of confined space entry, bloodborne pathogens, mishap reporting, occupational reproductive hazards, asbestos, and weight handling equipment. The Shore Working Group is writing the lesson guides for these subjects. The NAVOSHENVTRACEN will publish the revised training guide with an expected completion date of 2000. The Shore Working Group is also developing a videotape for shore activity NAVOSH orientation training. See Section I.K.4.b. for details.

b. **Follow-on Training**

(1) **Training Needs Assessment**. To ensure all NAVOSH and HMC&M follow-on training requirements are identified, the NAVOSHENVTRACEN conducts an annual needs assessment. The Echelon 2 Commanders identify course needs and location for the upcoming fiscal year, and the training center determines the necessary training to meet those needs within available resources. The NAVOSHENVTRACEN develops a preliminary schedule and provides it to Echelon 2 command points of contact for review. The NAVOSHENVTRACEN modifies the schedule, as appropriate, to meet customers' needs within provided resources.

(2) **Navy Occupational Safety and Health Training Review**. The Navy is committed to increase the accuracy and adequacy of NAVOSH training through a formal review and upgrade process. This review process includes formal training (e.g., scheduled, classroom training), *ad hoc* training (training that is not an approved, scheduled course; this training is normally established to meet a short-term emergent need), and on board training. The NAVOSHENVTRACEN established a training quality assurance program to review all formal training. The NAVOSHENVTRACEN now participates in selected NTRRs to determine if the quantity and quality of NAVOSH and HMC&M training is appropriate to the associated

rating or target group. They make reports of training reviews to the T&E QMB at its semiannual meetings.

(3) **Training Support.** NAVOSH and HMC&M training must support both program management (both military and civilian) and hazard-specific, compliance (both managers and workers) training. Program management training addresses hazard identification and evaluation, hazard prevention and deficiency abatement, program management and evaluation, mishap investigation and reporting, safety training, and HMC&M principles and operations. This training should be appropriate to the role and responsibilities of the individual. NAVOSH standards, practices, and procedures training includes specific NAVOSH standards, safe work practices, and emergency procedures applicable to the environment (afloat or ashore) and the responsibilities of the individual achieving these standards and performing these practices and procedures.

(4) **Afloat Training (Surface Ship, Aviation, and Submarine).** The Navy bases NAVOSH and HMC&M (Afloat) Programs, for most ships, on personnel trained on NAVOSH standards as part of their initial training (including in-rate training) for shipboard and equipment operations and maintenance and a continuing on board training program on NAVOSH standards. These programs rely on the supervision of operations and maintenance by knowledgeable supervisors and program management and some technical assistance by a safety officer who may not be a safety professional and may only have minimal NAVOSH and HMC&M training. These programs incorporate some degree of safety self-inspection by experienced shipboard officers and senior petty officers with support of the NAVOSH Program Manual for Forces Afloat and heavy reliance on shore activities for technical assistance, program implementation assistance, safety monitoring, industrial hygiene surveys and assistance, and medical surveillance. Even ships with IHOs as safety officers may rely on shore activities for industrial hygiene and medical surveillance assistance. The training programs for surface ships and submarines are tailored to support this type of safety program philosophy.

The NAVOSH Guide for Forces Afloat (NAVEDTRA 10074-A) is a resource guide for the Ship Safety Officer and other NAVOSH and HMC&M personnel to deliver training that is current and appropriate to shipboard personnel. The afloat working groups shall review this guide in FY99 to ensure that it meets these criteria.

(a) **Surface Ship NAVOSH and HMC&M Program Training**. To best support shipboard operations, surface ship NAVOSH training is an integrated approach combining various training delivery systems. NAVOSH training includes schoolhouse and shipboard instruction, personal qualification standards (PQS), interactive courseware (ICW), videotapes, general military training (GMT), on-the-job training, and shipboard watchstanding and casualty drills and exercises. The intent is to provide appropriate NAVOSH training at the correct time. Due to ship operating schedules, shipboard training and schoolhouse pipeline training, officer billet specialty training and enlisted 'A' and 'C' schools support ship operations better than Fleet Training Center 'F' courses. Underway and deployed operations make it difficult for Sailors to attend courses after reporting aboard ship.

When appropriate, basic and tailored NAVOSH topics are taught in pipeline training to prepare Sailors for shipboard duties. In some cases, short schoolhouse courses are still the most effective and efficient method of delivering instruction. The NAVOSHENVTRACEN provides the bulk of classroom instruction for surface ship NAVOSH training. This training reinforces basic NAVOSH training and provides direct support toward the management of the surface ship NAVOSH Program and associated hazard-specific elements. This training gives information on how to detect hazards, perform surveillance, report deficiencies, report mishaps, conduct training, control and manage HM, and accomplish program elements. Delivery of NAVOSHENVTRACEN courses by videoteletraining can support quality of life and mitigate some of the costs and disruption to shipboard routine by reducing time away from homeport and travel requirements.

1. **NAVOSH Program**. This training supports the overall NAVOSH program. The following training is conducted under this topic:

a. **Afloat Safety Officer Course (A-4J-0020)**. The resource sponsor for this course is N86. This SWOSCOLCOM course was first taught 15 October 1991. It provides training to primary and collateral duty safety officers (including IHOs) assigned to afloat commands, MSC vessels, and surface squadron and group billets. It is taught in Newport and exported to major East and West Coast homeports to train personnel who cannot obtain training at Newport. SWOS is the CCMM; CNET assisted by the NAVOSHENVTRACEN is the Course Curriculum Authority (CCA). A technical audit of this training was last accomplished in January 1995. The NAVOSHENVTRACEN should review this course triennially as a part of its quality assurance efforts.

b. **Safety Programs Afloat Course (A-493-2099)**. The 5-day Safety Programs Afloat course provides specialized NAVOSH training to senior enlisted personnel (E-5 and above) who have been, or will be, assigned to duties as a division safety petty officer or other responsible safety duties in an afloat command. OPNAVINSTs 5100.19C requires all division safety petty officers to attend this training prior to or within 6 months of being assigned these duties. The resource sponsors for this course are N869, N879, N889, and N42 (Military Sealift Command military crews).

The Type Commanders determined annual throughput for this course, the expected rotation of personnel assigned to the billet, and the resource sponsor costs at the February 1998 Afloat Safety Training Review. These are:

| Type Commander | Throughput (annual) | Rotation Period (mos.) | Resource Sponsor |
|---|---|---|---|
| COMNAVAIRLANT | 585 | 12 | 88 |
| COMNAVAIRPAC | 537 | 12 | 88 |
| COMNAVSURFLANT | 1425 | 18 | 85/86 |
| COMNAVSURFPAC | 1176 | 18 | 85/86 |
| COMSUBLANT* | 101 | 12 | 87 |
| COMSUBPAC* | 87 | 12 | 87 |
| TOTAL | 3911 | | |

*Submarine Tenders only

To meet this throughput, will require more than 130 course convenings each year or about 65 convenings per year on each coast. The NAVOSHENVTRACEN has successfully increased the number of students trained by use of the CNET Electronic Schoolhouse Network (CESN) to deliver videoteletraining. Maximum use of videoteletraining for this high volume course is crucial to control cost and reduce disruption to shipboard routine.

The content of this training is based on the NAVOSH Program Manual for Forces Afloat. It includes information on workplace monitoring, hazard identification, hazard abatement, deficiency correction, division safety program evaluation, safety standards and regulations, mishap or near-mishap investigation, divisional safety training, enlisted safety committee, personal protection equipment use and care, shipboard hazardous material control and management, and advising the division officer on safety matters. This course enables trainees to develop and maintain an effective division safety program. The NAVOSHENVTRACEN is conducting a zero-based review of the course in FY99/00. They will modify the course as a

result of this review. They should also review this course as a part of its quality assurance program. They should provide reports on the results of the review to the T&E QMB.

The number of division safety petty officers required to receive this training is currently 100 percent of those assigned. Many T&E QMB members feel that this number is unrealistic. The T&E QMB agreed to identify a percentage of ship division safety petty officers that would result in an effective NAVOSH Program during FY99/00.

c. **Additional Program Management Support**. The following Navy training, listed in the Catalog for Navy Training (CANTRAC), provides NAVOSH (Afloat) Program management support:

- Industrial Hygiene Techniques/Workplace Monitor Training (B-322-2306), (NAVENVHLTHCEN, EPMU-6) (Resource sponsor – N093).
- Engineering Maintenance Principles Practices And Administration (A-651-0064) (FTC Norfolk, FTC San Diego) (Resource sponsor - N86).
- Mess Management Specialist Class A (A-800-0013) (NTTCDET Lackland AFB) (Resource sponsor – N7)
- Food Service Administration (A-800-0015) (FTC Norfolk, FTC San Diego) (Resource sponsor – N41)

BUMED reviewed course B-322-2306 in 1996. They should review this course every 3 years to ensure the training remains necessary and the material being taught is current and in agreement with OPNAVINST 5100.19C.

The Surface Warfare Training Requirements Reviews (SWTRRs) for Machinist Mate and Mess Management Specialist ratings should review courses A-651-0064, A-800-0013, and A-800-0015.

2. **Asbestos Control**. This training supports the asbestos control program and consists of:

a. **Shipboard Asbestos Response (A-760-2166)**. The resource sponsors for this training are N869, N879, N889, and N42. Every ship with known asbestos thermal insulation must have a three-member response team (one supervisor and two workers) trained in the proper use of protective equipment and specific asbestos handling procedures. This 2-day course provides members of the asbestos response team with underway procedures. The course includes discussion of health hazards and the Navy asbestos control program, in addition to a laboratory session in personal protective equipment use and an insulation removal/repair mock-up. The course deals only with limited, at-sea asbestos removal, repair, and cleanup allowed outside three nautical miles from U.S. shores. This course is conducted by the NAVOSHENVTRACEN. The NAVOSHENVTRACEN should review this training as part of its quality assurance program. They should provide a report on the results of the audit to the T&E QMB. Personnel on ships that do not have asbestos insulation are responsible for training personnel to perform minor asbestos removal actions per OPNAVINST 5100.19C, Chapter B1, Appendix B1-B.

The Type Commander annual throughput needs for this course and the expected rotation of personnel assigned to the billet are as follows:

| Type Commander | Throughput (annual) | Rotation Period (mos.) |
|---|---|---|
| COMNAVAIRLANT | 13 | 24 |
| COMNAVAIRPAC | 9 | 24 |
| COMNAVSURFLANT | 24 | 70 |
| COMNAVSURFPAC | 35 | 70 |
| COMSUBLANT | 27 | 12 |
| COMSUBPAC | 129 | 12 |
| TOTAL | 237 | |

b. **Asbestos Supervisor/Worker (formerly Intermediate Maintenance Activity (IMA) Asbestos Removal) Course (A-493-0069)**. N4 is the resource sponsor for this training. Asbestos workers from tenders, other ships assigned IMA responsibilities, and SIMAs must receive training by Federal, State, and local laws and regulations applicable to the asbestos work they will accomplish. Similarly, NESHAP regulations prohibit any asbestos removal work (within the U.S.) unless at least an "on-site representative" (supervisor) trained in the NESHAP provisions is present. The NAVOSHENVTRACEN developed a 5-day course meeting both requirements (workers cannot function as supervisors, but supervisors can function as workers). This course provides Navy military and civilian workers and supervisors involved in asbestos removal operations with

EPA-accredited training on asbestos regulations, inspecting and reporting of asbestos hazards, and managing removal operations. Graduates will receive 1-year EPA certification as "Supervisor." This course meets all Asbestos Hazard Emergency Response Act (AHERA), Asbestos School Hazard Abatement and Reauthorization Act (ASHARA), and NESHAP requirements and EPA Worker Protection Rules, OSHA Standards, and regulations promulgated by the Department of Transportation. Both workers and supervisors require annual refresher training. A 1-day refresher course (A-493-0070) is available from the NAVOSHENVTRACEN.

The Type Commander annual throughput needs for both courses and the expected rotation of personnel assigned to the billet are as follows:

| Type Commander | Throughput (annual) | Rotation Period (mos.) |
|---|---|---|
| COMNAVAIRLANT | 35 | 24 |
| COMNAVAIRPAC | 48 | 24 |
| COMNAVSURFLANT | 0 | NA |
| COMNAVSURFPAC | 0 | NA |
| COMSUBLANT* | 12 | 12 |
| COMSUBPAC* | 12 | 12 |
| TOTAL | 107 | |

* Submarine tenders/drydocks only

c. **Supplemental Shipboard Asbestos Training**. Ships may use the following training at the NAVENPVNTMEDUs to supplement asbestos training:

- Analysis Of Airborne Samples (B-322-2333) (EPMU-2, 5, 6) (Resource sponsor for this training is N093).
- Analysis of Bulk Asbestos Samples (B-322-2334) (EPMU-2, 5, 6) (Resource sponsor for this training is N093).

BUMED reviewed these courses to ensure that training was necessary and according to OPNAVINST 5100.19C. BUMED should conduct a technical audit of each course every three years to ensure that material provided remains technically current.

3. **Heat Stress**. This training supports the Heat Stress Control and Prevention Program and consists of the following:

a. **Engineering Steam Generating Plant Inspector Qualification (K-651-2151)**. This 33-day course taught at FTC San Diego, provides senior petty officers (Machinists Mates E-7 and above) with the training required to qualify as Steam Generating Plant Inspectors. The SWTRR process should review this course to ensure that it includes OPNAVINST 5100.19C-promulgated heat stress control and prevention policies. The resource sponsor is N869.

b. **Heat Stress Afloat (B-322-2320).** NAVENPVNTMEDUs 2, 6, and 7 provide this 1-day course. The resource sponsor is N093. The course is designed to cover the medical aspects of heat stress, WBGT index, calibration and use of the WBGT meter, heat stress survey techniques, report requirements, and deficiency abatement." BUMED should review this course in FY99 to determine if it is needed and current (OPNAVINST 5100.19C, CH-2 has major changes to the heat stress guidance). BUMED should report the results of this review to the T&E QMB.

c. **Drycleaning Specialist (A-840-0010).** This 9-day course trains junior Ship's Servicemen in the proper operation of shipboard laundry and dry-cleaning equipment. This course also covers heat stress procedures. The resource sponsor for this training is N4. The Ship Serviceman (SH) SWTRR should review this training for accuracy.

4. **Hazardous Material (HM)**. This training supports afloat HMC&M. It consists of the following:

a. **Afloat Hazardous Material Coordinator Course (A-8B-0008)**. This 2-day course, taught by the NAVOSHENVTRACEN, provides afloat HM coordinators with the training necessary to manage effectively a shipboard HMC&M Program.

On ships manned with a Supply Corps Officer(s), one will be assigned as the HM coordinator. The Naval Supply Corps School provides required HM coordinator training to all prospective supply officers in the Supply Officer Department Head course (A-8B-0017). The content of the Supply Officer Department Head course is equivalent to the Afloat Hazardous Material Coordinator course (A-8B-0008). Providing HM coordinator training to supply officers in pipeline training best supports ships.

This course currently trains only those afloat HM coordinators who do not receive this training at the Supply Corps School. Personnel must receive this training before, or shortly after, being assigned to this duty. The NAVOSHENVTRACEN shall review this training as a part of its quality assurance program. The training center should report on the results of the audit to the T&E QMB. Since the Supply Corps School also provides this training, only a limited number of people currently require the training at the NAVOSHENVTRACEN (IHOs, enlisted personnel on small commands who may be assigned as HM coordinator, and personnel assigned as the assistant to the HM coordinator).

The Type Commander annual throughput needs for this course, the expected rotation of personnel assigned to the billet, and the resource sponsors are as follows:

| Type Commander | Throughput (annual) | Rotation Period (mos.) | Resource Sponsor |
|---|---|---|---|
| COMNAVSURFLANT | 10 | 18 | 85/86 |
| COMNAVSURFPAC | 5 | 18 | 85/86 |
| COMSUBLANT* | 3 | 24 | 87 |
| COMSUBPAC* | 1 | 24 | 87 |
| TOTAL | 19 | | |

* Tenders and drydocks only

b. **Hazardous Material Control and Management (HMC&M) Technician (A-322-2600)**. The NAVOSHENVTRACEN designed this 5-day course for military personnel, afloat or ashore, in the pay grades of E-5 through E-9. Successful completion of the course will result in awarding the secondary Navy enlisted classification (SNEC) 9595.

PCS en route student quota control for this course is now the responsibility of BUPERS. To support BUPERS' requirements, scheduled courses are only convened in Norfolk and San Diego. The NAVOSHENVTRACEN should review this course as a part of its quality assurance program. The training center should report the results of the audit to the T&E QMB.

The annual surface ship throughput for this course and the expected rotation of personnel assigned to the billet are as follows:

| Type Commander | Throughput (annual) | Rotation Period (mos.) |
|---|---|---|
| COMNAVSURFLANT | 503 | 18 |
| COMNAVSURFPAC | 406 | 18 |
| TOTAL | 909 | |

The resource sponsors for this training are N869, N879, N889, and N42.

c. **Consolidated Hazardous Material Reutilization and Inventory Management Program (CHRIMP)/Hazardous Material Inventory Control System (HICS) Training.** NAVSUPSYSCOM currently provides a 3-day CHRIMP/HICS Workshop on an *ad hoc* basis. This workshop is for afloat, military personnel currently assigned duties involving the set-up and/or running of an HAZMINCEN. The workshop provides training on the following topics: use of the CHRIMP Manual for HAZMINCEN set-up and inventory management, the use of the latest barcode readers and printers for inventory control, the use of the latest HICS software to track inventory and issue HM, and installation of the latest HICS software and/or conversion from previous versions of HICS. Since this training is now required by OPNAVINST 5100.19C, the workshop needs to be a CNET course of instruction. CNET and NAVSUPSYSCOM developed a memorandum of understanding (MOU) for formalizing this training. Under this MOU, the NAVOSHENVTRACEN is the CCMM, will obtain a course identification number (CIN), and will continue to schedule the course. NAVSUPSYSCOM will continue to provide the instructors for the training. Type commanders representatives agreed to submit a "new start" issue paper for POM-02 to their resource sponsors for funding this training.

d. **Damage Control Assistant (A-4G-0020)**. This 47-day course prepares personnel for qualification as damage control assistants (DCAs). The resource sponsor for this training is N869. The course is specifically oriented toward surface ship DCAs. NAVSEASYSCOM reviewed this course in 1993 and provided spill kits to accomplish HM spill response training. The Damage Control and SWOS SWTRR will review this course.

e. **Other Damage Control Training**. CNET reviewed the following damage control courses to ensure training included HM spill response procedures:

- Damage Control Repair Party Leader (A-495-0040) (12 days) (Training resource sponsor is N86).
- Senior Enlisted Damage Control (A-495-2055), (47 days) (Training resource sponsor is N86).
- Division Damage Control Petty Officer Indoctrination (J-495-0400), (2 days) (Training resource sponsor is N86).

- General Shipboard Damage Control Training (K-495-0045), (2 days) (Training resource sponsor is N86).

The Damage Control NTRR should review this training to ensure that presented HM spill control and cleanup training remains up-to-date and appropriate.

f. **Supply Personnel Specialty Training**. CNET reviewed the following courses, providing specialty training to supply ratings, and included appropriate training on HM handling, processing, and storage principles, as well as HMC&M techniques:

- Ships Store Afloat Resale Operation Management (ROM) System Supervisors (A-823-0015) (33 days) (N4 is the training resource sponsor).
- SNAP II Leading Storekeeper Afloat (A-551-0093), (19 days) (N4 is the training resource sponsor).
- SNAP II Supply Functional Management Supervisor Course (A-551-0094) (5 days) (N4 is the training resource sponsor).
- Shipboard Uniform Automated Data Processing System Real Time (SUADPS-RT) Operations and Management (A-551-0085) (54 days) (N4 is the training resource sponsor).

NAVSUPSYSCOM and the NAVOSHENVTRACEN should review these courses during the Storekeeper/Aviation Storekeeper (SK/AK) SWTRR to ensure the training contains appropriate and current HMC&M information.

5. **Hearing Conservation**. This training supports shipboard hearing conservation efforts and consists of the following:

a. **Hearing Conservation Afloat (B-322-2310)**. This 1-day NAVENPVNTMEDUs 2, 6, and 7 course trains Medical Department personnel on how to set up and conduct a hearing conservation program afloat. BUMED should review this course on a triennial basis to ensure it remains current and incorporates the requirements of the NAVOSH (Afloat) Manual. The resource sponsor for this training is N093.

b. **Diesel Engine 'C' Schools.** All diesel engine 'C' schools provide hearing conservation training to students so that they might properly supervise

assigned personnel on this program on board ship. The training resource sponsor is N86. The Engineman rating (EN) SWTRR should review this training to ensure that included material is current and appropriate.

6. **Sight Conservation**. No formal shore training exists that supports the sight conservation program. However, this material is included in safety officer, division safety petty officer, and appropriate 'A' and 'C' schools and technical training courses. Reviews of this training should validate that training is current and appropriate.

7. **Respiratory Protection**. The following course supports the afloat respiratory protection program: **Respiratory Protection Manager (A-4J-0082)**. This 2-day course provides Navy military personnel serving as respiratory protection manager (RPM) and assistant/alternate respiratory protection managers (ARPMs) with the training necessary to effectively establish, maintain, and monitor Respiratory Protection efforts within their commands/activities. The course is taught at the NAVOSHENVTRACEN. The NAVOSHENVTRACEN should review this course as a part of its quality assurance effort. The Fleet CINCs agreed that respiratory protection managers on CVs, CVNs, ASs, LHDs, LHAs, and MCS-12 should attend the shore Respiratory Protection Program Manager course (see paragraph I.H.4.b.(5)(h)). As a result, the Type Commander annual throughput needs for this course and the expected rotation of personnel assigned to the billet are as follows:

| Type Commander | Throughput (annual) | Rotation Period (mos.) | Resource Sponsor |
|---|---|---|---|
| COMNAVSURFLANT | 77 | 18 | 85/86 |
| COMNAVSURFPAC | 55 | 18 | 85/86 |
| TOTAL | 132 | | |

8 **Electrical Safety**. No formal training course exists that directly supports Navy afloat electrical safety. The NAVOSHENVTRACEN analyzed the need for a formal Electrical Safety Officer Course in FY90. Following their recommendation that training was required, but could be accomplished by an on board training package, the Naval Safety Center strongly recommended and the T&E QMB agreed to establish a formal course to replace the Naval Safety Center 2-day Electrical Safety Officer Seminar. CNET developed and approved a project plan for this course. After CNET requested resources for program development as a part of POM94, the Surface Force Type Commanders announced they no longer desired this training. The T&E QMB tasked SWOS with upgrading the electrical safety training in the Division Officer and Department Head courses. This action is complete. SWOS teaches electrical safety in Division Officer, Department Head, Prospective Executive Officer, Prospective Commanding Officer, and engineering, combat systems, and damage control training courses. Appropriate SWTRRs will review each.

Electrical Safety is addressed in Electricians Mate Class 'A' and 'C' schools. SWTRRs should review this training and similar training for 'A' and 'C' schools for other electrical- and electronic-related ratings.

9. **Personal Protective Equipment and Clothing**. No formal training exists that specifically supports this element. Information on protective equipment is covered under other training (i.e., lead protection, asbestos, respiratory protection and hearing conservation). The NAVOSHENVTRACEN evaluated the need for a formal personal protective equipment and clothing course and recommended no formal training was required. The T&E QMB agreed with this recommendation.

10. **Gas Free Engineering**. The training courses that support the shipboard gas free engineering program are:

a. **Gas Free Engineer and Gas Free Engineering Petty Officer For Surface (Afloat) Operations Course (K-495-0051).** This 5-day course is taught at

nine Navy locations (Fleet Training Centers, Fleet Training Groups, etc.). The resource sponsor for this training is N86. This course prepares personnel to assume the duties and responsibilities of a shipboard gas free engineer and gas free engineering petty officer per Naval Ships' Technical Manual (NSTM), Chapter 074, V3 of April 1998. The T&E QMB tasked NAVSEASYSCOM and the Surface Ship Working Group to audit and determine the course quality after allowing sufficient time for the CCMM to incorporate changes reflecting revisions to NSTM Chapter 074, V3. This audit should occur in FY99. NAVSEASYSCOM and the Surface Ship Working Group should make recommendations to T&E QMB, identifying changes needed to the course. Subsequent reviews will be a part of the Damage Controlman SWTRR.

b. **Damage Controlman Class A1 (A-495-2060).** This 54-day course taught at Great Lake Naval Training Center provides the basic technical knowledge and skills required to prepare for shipboard assignment and advancement to the lower petty officer grades. The course provides apprentice level training for personnel in the Damage Controlman (DC) rating. These specialists must perform and assist with shipboard training on routine and emergency tasks in all major damage control areas including operation and maintenance of equipment and systems; fire fighting; chemical, biological and radiological defense (CBR-D); shipboard stability and buoyancy; gas free engineering and Fixed Damage Control Systems. The resource sponsor for this training is N86. The DC SWTRR should review gas free training contained within this course to ensure the course accurately reflects modifications to NSTM Chapter 074, V3 and OPNAVINST 5100.19C, Chapter B8.

11. **Radiation Safety.** Radio frequency radiation (RFR) training is required for all personnel who work with and maintain RFR sources. All personnel trained on the maintenance of shipboard radars should receive this training as a part of the specialty training associated with that radar system. The NAVOSHENVTRACEN shall review such training during appropriate SWTRRs to ensure that courses include RFR safety standards and protective measures described in Chapters B10 and C9 of OPNAVINST 5100.19C.

The following formal courses support afloat radiation protection:

a. **Radiographic Safety Training (S-491-0020).** This 5-day course is conducted at the Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, VA. CNO (N093) is the resource sponsor for this training. This course provides safety and maintenance training to Navy/Marine Corps officer, enlisted, and civilian (civil service) personnel prior to their assignment as radiation safety officer (RSO) or assistant radiation safety officer (ARSO) for activities with isotopic (gamma) radiography capabilities. Graduates meet Radiological Affairs Support Program (RASP) formal training requirements for RSOs and ARSOs for isotopic (gamma) radiography programs. NAVSEASYSCOM, with BUMED, should review this training on a triennial basis to ensure that it covers the requirements of OPNAVINSTs 5100.19C and 5100.23E.

b. **X-Ray Radiation Safety Officer Course (S-491-0016)**. This 5-day course provides Navy civilians and senior enlisted and officer personnel, with no prior radiation safety experience, with the training necessary to supervise X-ray radiation safety on surface ships that conduct X-ray radiography. Commands requiring this positional training include but are not limited to Naval Air Stations, LHAs, LHDs, CV/CVNs, and Marine Air Groups. Graduates meet Radiological Affairs Safety Program (RASP) formal training requirements for RSOs and ARSOs for machine producing radiation sources. NAVSEASYSCOM, with BUMED, reviewed this course in FY94 to comply with the NAVOSH Program Manual for Forces Afloat. They should review this training on a triennial basis to ensure that it covers the requirements of OPNAVINSTs 5100.19C and 5100.23E. This course is conducted at Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, VA. The resource sponsor for this training is CNO (N093).

c. **Radiation Health Indoctrination (B-5A-1050)**. This 12-day course provides indoctrination in the knowledge and skills necessary to conduct adequate and efficient radiation health protection. This course indoctrinates Medical Department personnel in radiological health and administrative procedures pertinent to radiation health protection. BUMED should review this course on a triennial basis for compliance with OPNAVINSTs 5100.19C and 5100.23E and report the results to the T&E QMB. This course is conducted at the Naval Undersea Medical Institute, Health Science Detachment, Groton CT. The resource sponsor for this training is N093.

d. **Radiation Health Officer (B-5A-1000)**. This 25-day course provides initial training in knowledge and skills necessary to manage Navy Radiation Health Protection, to support nuclear propulsion and nuclear weapons, and other Navy radiological controls efforts. It includes initial training in the knowledge and skills necessary to conduct adequate and efficient radiation health protection. It protects personnel from excessive exposure to ionizing radiation, teaches operation of monitoring equipment, provides orientation regarding safety hazards, and teaches medical-legal administrative procedures pertinent to radiation health. BUMED should review this course on a triennial basis for compliance with OPNAVINSTs 5100.19C and 5100.23E and report the results to the T&E QMB. This course is conducted at the Naval Undersea Medical Institute, Health Science Detachment, Groton, CT. The training resource sponsor is N093.

e. **Laser Systems Safety Officer (Category II) (A-493-0067)**. The 2-day NAVOSHENVTRACEN course provides personnel assigned as a Category II Laser Systems Safety Officer (LSSO) with the training necessary to develop and manage a Laser Safety effort. All ships with Class IIIb, IV, or military exempt lasers aboard should have a laser system safety officer who attends this training before assumption of duty. NAVOSHENVTRACEN should review this course as a part of its quality assurance program. The training center should report on the results of the audit to the T&E QMB. The resource sponsor for this training is N4.

12. **Tag-out**. No unique formal training that directly supports afloat tag-out exists. Tag-out training is provided as a part of safety officer and division safety petty officer training and other maintenance courses. The NAVOSHENVTRACEN analyzed the need for unique formal tag-out training. They determined and recommended that no formal training course was necessary for this topic and that adequate training could be provided by means of an on board training package. The T&E QMB agreed with this recommendation. This training package was produced and issued to all ships.

13. **Lead Control.** No unique formal training supports afloat lead control. Lead control training is provided as a part of safety officer and division safety petty officer training and maintenance courses. BUMED formerly provided the lead control training, but this was cancelled due to lack of interest and other higher priority efforts. The lead control aspects of paint removal and painting is conducted as on board training (see section I.K.1).

(b) **Military Sealift Command (MSC) NAVOSH Training**. As a result of differences in ship manning concepts, Commander, Military Sealift Command (COMSC) developed unique NAVOSH administrative procedures. To provide training on MSC NAVOSH procedures and to address the education and background of the MSC civilian mariner, COMSC developed a unique training program consisting of formal classroom training and a series of on board training videotapes. COMSC is responsible for the quality and accuracy of this training material. The NAVOSHENVTRACEN should audit this training on a triennial basis to ensure training objectives are being met. MSC formal training consists of the following:

1. **Afloat Safety and Occupational Health Course**. This 2-day course is taught at the MSC Damage Control/Fire Fighting School. It contains modules on:

a. Safety and Occupational Health
b. Personal protection equipment
c. Sight conservation and eye safety
d. Hearing conservation
e. Forklift safety
f. Back injury prevention and ergonomics
g. Package and pallet conveyor safety
h. Contract liberty boat safety
i Heavy weather safety
j. Electrical safety and MSC Lockout/Tagout System
k. Gas free engineering
l. Heat stress
m. Asbestos hazards and exposure control
n. Man-made vitreous fiber (MMVF) control
o. Respiratory protection
p. Hazardous material control and management
q. Shipyard safety
r. Radiation protection
s. Lead safety
t. Polychlorinated biphenyls (PCBs)
u. Recreation, athletics, and home safety
v. Traffic safety
w. Mishap investigation and reporting

Each topic is supplemented with short (10-15 minute) videotapes (also provided to the ships as a part of the MSC on board safety and occupational health training package).

2. **MSC Safety Staffs and MSC CIVMAR Ship Safety Officer Training**. MSC safety Staffs and MSC CIVMAR Ship Safety Officers attend the Afloat Safety Officer Course (A-4J-0020) taught at the Surface Warfare Officer School.

3. **MSC Hazardous Material Coordinator Training**. MSC HM coordinators attend the Afloat HM Coordinator course (A-8B-0008) taught at the Supply Officer's course in Athens, GA.

(c) **Submarine NAVOSH and HMC&M Training**. Little NAVOSH and HMC&M training is unique to submarine personnel. Submarine personnel may receive training on NAVOSH topics from the NAVOSHENVTRACEN or the NAVENPVNTMEDUs as described in Section I.H4b(4)(a) for surface ships. Due to submarine operating and training schedules, most submarine NAVOSH training is conducted as a part of on board training. See paragraph I.K.2. for detailed information on submarine on board training.

1 **Submarine Safety Officer Course (F-4J-0020)**. Submarine safety officers receive safety and health training through a 4-day course at the NAVOSHENVTRACEN. This course provides NAVOSH, submarine safety, and mishap investigation and reporting training comparable to the training provided surface warfare officers in the Afloat Safety Officer Course. COMSUBLANT shall review this course as a part of its quality assurance program to ensure that it provides quality training consistent with NAVOSH guidance. N87 is the resource sponsor for this training.

2. **Asbestos Control**. Submarines having asbestos thermal insulation aboard shall have a three-man team (one supervisor and two workers) trained in the proper use of protective equipment and specific asbestos handling procedures. Shipboard Asbestos Emergency Response (A-760-2166) accomplishes this training. See paragraph I.H.4.b.(4)(a)2.a. for additional information on this training.

Type Commander annual throughput needs for this course and the expected rotation of personnel assigned to the billet are as follows:

| Type Commander | Throughput (annual) | Rotation Period (mos.) |
|---|---|---|
| COMSUBLANT | 27 | 12 |
| COMSUBPAC | 129 | 12 |
| TOTAL | 156 | |

3. **Hazardous Material (HM)**.

a. **HM Coordinator**. Both submarine Type Commanders have specified that the supply officer shall be the submarine HM coordinator. Supply officers receive HM coordinator training at the Navy Supply Corps School. See paragraph I.H.4.b.(4)(a)4.a. for detailed information on this training.

b. **Submarine Supply and Supply-support Personnel**. Submarine supply and supply-support personnel receive training on submarine-unique procedures at the following courses: SNAP II Leading Storekeeper Afloat (A-551-0093), Submarine Repair Parts Petty Officer SNAP II (A-551-0095), and Submarine Repair Parts Petty Officer Course (A-551-0091). A Submarine Training Requirements Review (STRR) reviewed these courses in FY94. As a result, BUPERS added the HMC&M Technician course (A-322-2600) as en route training following completion of the SNAP II Leading Storekeeper Afloat course. The NAVOSHENVTRACEN reviewed these courses during SWTRRs to ensure HM management was adequately addressed. Necessary changes have been made.

Following are the submarine Type Commander requirements for HMC&M Technician (SNEC 9595) training annual throughput and billet rotation to support their needs:

| Type Commander | Throughput (annual) | Rotation Period (mos.) |
|---|---|---|
| COMSUBLANT | 57 | 18-24 |
| COMSUBPAC | 50 | 18-24 |
| TOTAL | 107 | |

4. **Gas Free Engineering**. Submarine-assigned hospital corpsmen are the gas free engineers of their commands. Corpsmen going to submarines for duty will attend **Submarine Force Independent Duty Corpsman (Alternative Training Pipeline) (B-300-0005)** en route. During this training they receive instruction on gas free

engineering principles and practices. The Naval Underwater Medical Institute provides this 136-day course. The resource sponsor is N093. BUMED with NAVSEASYSCOM assistance should review this course following the issuance of the NSTM Chapter 074, V3 revision to ensure it is current and accurate and report the results to the T&E QMB.

(d) **Aviation Training**. NAVOSH and HMC&M training for aircraft carrier personnel is generally the same as for other surface ships and can be found in Section I.H.4.b.(4)(a). NAVOSH and HMC&M training for personnel assigned to aviation activities ashore is generally the same as for other shore activities and can be found in Section I.H.4.b.(5). Following are unique aviation-NAVOSH and HMC&M training requirements.

1. **Aviation Safety Specialist (A-493-0065).** The NAVOSHENVTRACEN conducts this 5-day course. This course provides aviation safety specialists with training to assist in the operation and management of the aviation activity's occupational safety and health program and its aviation safety program ashore and afloat, including on- and off-duty mishaps and completion of required reports. The course content includes safety and health procedures, policies, and instructions; deficiency abatement program; mishap investigation and reporting; safety and health training; hazardous material control and management; maintenance of safety records; hazard detection, elimination, reporting, and monitoring; management of an activity's safety committee; and hangars, flight-line, deck safety, and operational risk management (ORM). The resource sponsor for this course is N88. The Air Working Group (assisted by the NAVOSHENVTRACEN) audited this course in FY99 to ensure that material comparable to the Safety Programs Afloat course was being taught. Recommendations were made to the NAVOSHENVTRACEN on improving this course, including reducing the length of training to 5 days. The NAVOSHENVTRACEN reviewed these recommendations and made curriculum changes.

During the February 1998 Afloat Safety Training Review, the Type Commanders determined the following throughput for this training:

| Type Commander | Throughput (annual) | Rotation Period (mos.) |
|---|---|---|
| COMNAVAIRLANT | 65 | 24 |
| COMNAVAIRPAC | 70 | 24 |
| Navy Reserve | 37 | 24 |
| Navy Training Squadrons | 16 | 24 |
| USMC LANT | 31 | 24 |

| | | |
|---|---|---|
| USMC PAC | 38 | 24 |
| USMC Reserve | 13 | 24 |
| TOTAL | 270 | |

2. NAVOSH Training for Wing and Squadron Safety Officers. The Air NAVOSH Working Group reported that aviation wing and squadron Safety Officers receive limited NAVOSH training as a part of the **Aviation Safety Management (S-00-3326)** course taught at the Naval Post Graduate School. This 32-day course provides approximately 100 classroom hours of such subjects as safety management concepts, computer systems data analysis, safety identified hardware, training and manning deficiency correction, industrial safety (including Occupational Safety and Health Act concepts), and shipboard safety. The Resource Sponsor for this training is the N88. The Air Training Working Group should review this training triennially to ensure the NAVOSH material provided is current and accurate and report the results of their audit to the T&E QMB.

3. **Hazardous Material (HM)**

a. **HM Coordinator**. Aviation Type Commanders have specified that the supply officer is the HM coordinator. Supply officers receive HM coordinator training at the Navy Supply Corps School. See paragraph I.H.4.b.(4)(a)4.a. for detailed information on this training.

b. **Hazardous Material Control and Management Technicians (SNEC 9595).** Aircraft carriers and aviation squadrons use the HMC&M Technician (SNEC 9595) for operation of the HAZMINCENs and general program management and training. See Section I.H.4.b.(4)(a)4.b. for detailed information on this training. Type Commanders determined that the annual throughput and billet rotation for personnel assigned this SNEC are:

| Type Commander | Throughput (annual) | Rotation Period (mos.) |
|---|---|---|
| COMNAVAIRLANT | 251 | 12 |
| COMNAVAIRPAC | 240 | 12 |
| Navy Reserve | 37 | 12 |
| Navy Training Squadrons | 16 | 12 |
| USMC LANT | 31 | 12 |
| USMC PAC | 38 | 12 |
| USMC Reserve | 13 | 12 |
| Total | 626 | |

c. **Other Aviation HM-Related Training.** The following aviation maintenance courses contain training material on HM management: Naval Aviation Maintenance Program Indoctrination (Q-4D-2010) (NASC Pensacola) (resource sponsor - N88) and Senior Aviation Maintenance Officer (Q-4D-2012) (NASC, Pensacola) (resource sponsor - N88). The NAVOSHENVTRACEN should review these courses during appropriate ATRRs to ensure the HM training provided is current and accurate and report results to the T&E QMB.

4. **Radiation Safety**. **Radiation Safety Refresher Training (N-701-0012)** is a 1-day course taught at Naval Aviation Depots Jacksonville, North Island, and Cherry Point and Naval Shipyard Norfolk. The purpose of this training is to provide formal and necessary training on radiation safety as related to radiographic testing methods of non-destructive inspection on aircraft. The resource sponsor for this training is N88. The NAVOSHENVTRACEN shall review this course as a part of the ATRR process to ensure that it complies with the requirements of OPNAVINST 5100.23E.

5. **Aviation Gas Free Engineering**. Aviation Gas Free Engineers and Technicians attend the **Aviation Gas-Free Engineering (C-600-3000)** course taught at six Naval Aviation Maintenance Training Group Detachments (NAMTRAGRUDETs). The resource sponsor for this training is N88. This 1-day course provides Quality Assurance Division personnel with sufficient formal training and skills to certify aviation fuel cells/ tanks safe for entry using the GASTECH 1314 PPM/LEL gas indicator under limited supervision, in an organizational/intermediate maintenance environment. On-the-job training shall be completed under a certified gas free engineer/confined space program manager. The T&E QMB was concerned that this course taught procedures that were conflicting with OSHA regulations for confined space entry and specified the use of an indicator that did not meet the OSHA requirements. The T&E QMB felt that only one source of training should exist for confined space entry and that was course A-493-0030. An action exists to provide replacement training for this course and with the concurrence of the resource sponsor, cancel this training.

(5) **Shore Training**

(a) **General**. Adherence to safe operating practices and procedures at shore activities cannot be assured unless a clear and defined knowledge exists of the job, its hazards, and the strategies necessary to perform the job properly and prevent mishaps. To

attain this type and level of knowledge, shore activities should require a well-developed and coordinated training effort keyed to all levels and types of personnel. The NAVOSH and HMC&M training programs at shore activities are based on formal classroom instruction, continuing on-the-job training on NAVOSH standards, supervision of operations and maintenance by knowledgeable supervisors, program management and technical assistance from safety and health professionals, industrial hygiene surveys, and medical surveillance, with program oversight as outlined in the NAVOSH Program Manual, OPNAVINST 5100.23E, Chapter 6. Shore activities shall design occupational safety and health training programs to instruct individual employees on performing their work in a safe and healthful manner and shall tailor training to responsibility of the individual.

(b) **NAVOSHENVTRACEN Shore Occupational Safety and Health Courses**. The NAVOSHENVTRACEN provides the following shore curricula.

| COURSE IDENT. NO. (CIN) | TITLE |
|---|---|
| A-493-0021 | *Construction Safety Standards* |
| A-493-0030 | *Confined Space Safety* |
| A-493-0031 | *Introduction to Hazardous Material (Ashore)* |
| A-493-0033 | *Electrical Standards* |
| A-493-0035 | *Introduction to Industrial Hygiene for Safety Professionals* |
| A-493-0038 | *Laser Systems Safety Officer (Category I)* |
| A-493-0043 | *Safety Appraisal* |
| A-493-0047 | *Ground Safety for Marines* |

| COURSE IDENT. NO. (CIN) | TITLE |
|---|---|
| A-493-0050 | *Introduction to Navy Occupational Safety and Health (Ashore)* |
| A-493-0061 | *General Industry Safety Standards* |
| A-493-0063 | *Safety Training Methods* |
| A-493-0067 | *Laser System Safety Officer (Category II)* |
| A-493-0072 | *Respiratory Protection Program Management* |
| A-493-0073 | *Machinery and Machine Guarding Standards* |
| A-493-0074 | *Crane Safety* |
| A-493-0075 | *Fire Protection and Life Safety* |
| A-493-0078 | *Mishap Investigation (Ashore)* |
| A-493-0079 | *Mishap Recordkeeping Seminar* |
| A-493-0084 | *Fall Protection Systems* |
| A-493-0085 | *Navy Ergonomics Program* |
| A-4J-0019 | *Occupational Safety and Health (OSH) Two Thousand* |
| A-493-0014 | Asbestos Inspector (FY00 new start) |
| A-493-0015 | Asbestos Inspector Refresher (FY00 new start) |
| A-493-0019 | Asbestos Management Planner (FY00 new start) |
| A-493-0020 | Asbestos Management Planner Refresher (FY00 new start) |
| A-493-0086 | Asbestos Project Designer (FY00 new start) |
| A-493-0087 | Asbestos Project Designer Refresher (FY00 new start) |
| A-493-0017 | Asbestos Project Monitor (FY00 new start) |
| A-493-0018 | Asbestos Project Monitor Refresher (FY00 new start) |

The NAVOSHENVTRACEN staff, contractors (using either their lesson guides or lesson guides developed by the Navy), or other Federal agencies may teach core curriculum courses. The resource sponsor for this training is N45. The T&E QMB reviewed and approved the core curricula. CNET implemented a process for ensuring that these courses meet established quality criteria. The NAVOSHENVTRACEN shall conduct triennial technical audits of their courses to identify courses requiring modification. The Shore Working Group shall review proposed changes to existing courses and content of proposed new courses and provide recommendations for any additions, deletions, or corrections to the NAVOSHENVTRACEN. The NAVOSHENVTRACEN should maintain a status of technical audits and shall report actions to the T&E QMB at each meeting.

(c) **NAVOSH Training Tuition/Registration Fee Advance Program.** This program provides optimum variety and availability of professional development courses for Navy OSH personnel efficiently and cost-effectively. Under this program, the NAVOSHENVTRACEN advances tuition or registration fees for selected courses. The T&E QMB initiated this effort in FY95 to provide professional development training for OSH professionals when it was not possible to provide Navy-sponsored classes due to lack of sufficient demand at a single location. This effort also provides a means of controlling travel/per diem costs by supporting localized non-government training. The NAVOSHENVTRACEN provides funds for training on a first-come, first-served basis. Appropriate Echelon 2 Headquarters Commands approve all requests for training tuition/registration advances. The NAVOSHENVTRACEN provides annual reports on the success of this effort to the T&E QMB. This report includes issues, proposed program modifications, and a recommendation regarding continuation of this program.

(d) **Management Personnel Training**. Management personnel must receive sufficient OSH training to enable them to actively and effectively support NAVOSH and HMC&M programs in their specific areas of responsibility. Besides an overview of appropriate statutes, regulations and applicable Navy safety and health standards, management level training shall include:

1. An in-depth examination of management's responsibilities in relation to the activity's NAVOSH and HMC&M programs
2. A review of Navy policy on all relevant aspects of the NAVOSH and HMC&M programs
3. An examination of active NAVOSH and HMC&M goals and objectives.
4. An overview of current CNO emphasis programs.

In FY 95, the Shore Working Group determined that sufficient training material was available for shore activities to conduct this training. They reported this finding to the T&E QMB.

(e) **Supervisors and Employee Representatives**. These personnel must receive initial training and annual refreshers/updates enabling them to recognize unsafe and unhealthful working conditions and practices in the workplace. Activities shall train

supervisors on the skills necessary to manage the activity's NAVOSH and HMC&M programs at the work unit level. This training shall include:

1. Training and motivation of subordinates in the development of safe and healthful work practices
2. NAVOSH and HMC&M performance measurement
3. Hazard identification and analysis
4. Enforcement of NAVOSH and HMC&M standards
5. Mishap investigation
6. The use and maintenance of PPE.

Newly appointed supervisors must receive this training within 180 days after appointment. The T&E QMB tasked the Shore Working Group to determine the most effective way to conduct training of shore activity supervisors and report their findings. The T&E QMB informed the working group that it desires “push-type” training for appropriate shore supervisors. In FY 95, the Shore Working Group determined that sufficient training material was available to shore activities to conduct supervisory personnel training and reported this to the T&E QMB.

(f) **Occupational Safety and Health Professionals**. Activities shall train these personnel through courses, laboratory experiences, and field study to perform the necessary technical monitoring, consulting, testing, inspecting, and other tasks required of safety and health professionals. Activities shall provide OSH professionals with suitable training and education following established professional development plans and considering the needs of the shore activity to conduct effective NAVOSH and HMC&M programs. In September 1997, the Professional Development Task Action Team developed NAVEDTRA Publication 10076A, *Career Development Program for Safety and Occupational Health and Industrial Hygiene Personnel.* CNET subsequently issued the Career Development Plan. This document provides the information on developmental requirements for personnel to be fully qualified as Navy safety or industrial hygiene professionals and recommends methods for those personnel to attain qualifying experience. Activities should use the career development guidelines in this publication in the development and implementation of Individual Development Plans (IDPs). IDPs for occupational safety and health professionals shall include the following NAVOSHENVTRACEN courses (or equivalent):

1. **Occupational Safety and Health (OSH) Two Thousand (A-4J-0019).** This 5-day course provides full-time safety managers with advanced knowledge and skills necessary to carry out functions specific to OSH management. The course addresses OSH management in a changing Navy, process overview and culture, a risk management overview, cost-benefit analysis, the OSH role in ensuring operational readiness, measure and control of process variance, roles of the OSH manager, personality profiles and leaderships styles, creative solutions, indicators and evaluation techniques, strategic planning, and emerging issues.

2. **Safety Appraisal (A-493-0043).** This 4-day course provides full-time shore OSH personnel and activity designated collateral-duty OSH managers/safety officers with the training required to perform safety appraisals of Command Workplaces and processes. The course places emphasis on pre-appraisal planning, operational risk management (ORM), data collection and analysis, formulation of conclusions and recommendations for improvement, and outbriefing and report writing.

3. **Introduction to NAVOSH (Ashore) (A-493-0050).** This 5-day course provides shore primary- and collateral-duty military and civilian safety personnel with training to independently implement, maintain, and manage a comprehensive safety program ashore. The course content includes: terms, principles, concepts and requirements for mishap prevention, safety, fire, environment, and occupational health programs in the Navy, fundamentals of mishap causation, hazard recognition, investigation and reporting, occupational safety and health standards, hazard abatement, respiratory protection, hearing conservation, sight conservation, ergonomics, energy control, confined space entry, and ORM.

4. **General Industry Safety Standards (A-493-0061).** This 5-day course provides full-time OSH personnel and designated collateral-duty OSH managers/ safety officers, fire protection specialists, and others assigned responsibility for conduct-ing/supervising OSH inspection efforts at shore activities with training in OSHA general industry standards. This course provides training in identifying and interpreting OSHA standards and applying those standards to the work environment.

5. **Electrical Standards (A-493-0033).** This 4-day course provides full-time OSH personnel and designated collateral duty OSH managers/safety officers

at shore activities with training to identify and interpret electrical safety standards and apply them to ensure hazard-free workplaces.

6. **Introduction to Hazardous Materials (Ashore) (A-493-0031).** This 5-day course provides civilian and military personnel assigned to full-time/collateral OSH safety duties with necessary training to understand the OSHA hazard communication standard, administer a HM safety program, and implement HM control requirements and methods ashore.

7. **Introduction to Industrial Hygiene for Safety Professionals (A-493-0035).** This 4-day course introduces full-time safety and occupational health personnel and environmental protection and emergency personnel to the field of industrial hygiene and the identification of potential health hazards in the workplace.

8. **Safety Training Methods (A-493-0063).** A 5-day course providing full-time and collateral-duty OSH personnel assigned responsibilities for safety training (personnel who provide formal OSH training of two or more hours) at shore activities with the training to independently develop, administer and evaluate safety training efforts at their commands.

(g) **Collateral Duty Safety and Occupational Health Personnel**. These persons must receive training for the performance of specified duties within the scope and nature of the activity's operations. At a minimum, collateral duty safety and health managers must satisfactorily complete the NAVOSHENVTRACEN course, *Introduction to NAVOSH* (Ashore), or equivalent, before assumption of duties.

(h) **Specific Training**. All shore personnel must receive job-specific training to enable them to effectively accomplish their jobs safely and healthfully. Curricula should build on and reinforce basic NAVOSH and HMC&M training and include specific NAVOSH standards, safe work practices, HMC&M methods, and emergency procedures appropriate to the individual. Specific NAVOSH training includes:

1. **NAVOSH Inspector Qualification and Training**. OPNAVINST 5100.23E states that a successful inspection program requires trained, qualified, and competent inspectors. These inspectors must understand NAVOSH standards details and

historical OSH problems associated with the areas they inspect. They must know how to use test equipment needed to inspect certain types of work areas or processes. The instruction further states that NAVOSH inspectors must be adequately trained and qualified for one or more of the following Office of Personnel Management designations:

- GS-0018 Safety and Occupational Health Manager/Specialist
- GS-0803 Safety Engineer
- GS-0019 Safety and Occupational Health Technician
- GS-0804 Fire Protection Engineer
- GS-0081 Fire Protection Specialist/Inspector
- GS-1306 Health Physicist
- GS-0690 Industrial Hygienist

A fully qualified journeyman occupational safety and health inspector must take the following courses given by the NAVOSHENVTRACEN (or equivalent training as determined by the supervisor):

a. *Introduction to NAVOSH (Ashore)* (A-493-0050).
b. *General Industry Safety Standards* (A-493-0061).
c. *Safety Appraisal* (A-493-0043).
d. *Introduction to Industrial Hygiene for Safety Professionals* (A-493-0035).
e. *Electrical Standards* (A-493-0033).
f. *Introduction to Hazardous Materials (Ashore*) (A-493-0031).

2. **Respiratory Protection Training**

a. **Respiratory Protection Program Management (A-493-0072)**. This 40-hour course gives Respiratory Protection Program Managers (RPPMs) and their assistants or alternates a basic understanding of respiratory hazards and protection and training in establishing and maintaining an effective respiratory program. Prior to FY96, NAVENPVNTMEDUs taught the RPPM course. CNET commenced providing all respiratory protection training through the NAVOSHENVTRACEN in FY96. The NAVOSHENVTRACEN course provides contractor-delivered respiratory program training meeting the Respiratory Protection Program Manager requirement. The resource sponsor for this training is N4. As

indicated, the Fleet CINCs require that respiratory protection officers aboard CVs, CVNs, ASs, LHDs, LHAs, and the MCS attend this training. The afloat requirement for this training is:

| Type Commander | Throughput (annual) | Rotation Period (mos.) |
|---|---|---|
| COMNAVAIRLANT* | 7 | 24 |
| COMNAVAIRPAC* | 7 | 24 |
| COMNAVSURFLANT | 7 | 18 |
| COMNAVSURFPAC | 8 | 18 |
| COMSUBLANT | 4 | 12-24 |
| COMSUBPAC | 3 | 12-24 |
| TOTAL | 36 | |

* The throughput for COMNAVAIRLANT and COMNAVAIRPAC is based on training an assistant RPM as well as the RPM due to the large program workload aboard aircraft carriers.

b. **Respirator Users**. Navy employees required to wear respirators and their supervisors must receive initial training as well as annual refresher training. This training must cover the nature and degree of respiratory hazards; respirator selection based on hazards and respirator capabilities and limitations; respirator donning procedures; respirator fit testing; care of the respirators; and the use of contact lenses with respiratory equipment. The Shore Working Group and BUMED reviewed a lesson guide within the *NAVOSH Training Guide for Shore Activities* and determined that shore activities could use it to meet these requirements.

3. **Hazardous Material Control and Management (HMC&M)**. OPNAVINST 5100.23E lists four basic requirements for HMC&M training. These are:

a. **Policies and Procedures**. Various categories of personnel involved in the HMC&M program require training on their functions and responsibilities. In support of this effort, N45 produced two audio-visual training packages, consisting of a videotape and an accompanying user's guide on the HMC&M program. One of these videotapes, *Hazardous Material Control and Management for Supervisors*, 805114DN is for shore activity and major staff managers. The other, *Hazardous Material Control and Management for Users*, 805115DN is for HM workers.

b. **Hazard Communication (HAZCOM) Training**. 29 CFR 1910.1200 requires HAZCOM training. This regulation requires employers to train all employees on hazardous chemicals in the work area at the time of the initial assignment, and whenever a new hazard is introduced into the work area. Such training shall include at least:

i. Methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area.

ii. The physical and chemical hazards of the chemicals in the work area.

iii. The measures the employees can take to protect themselves from these hazards.

iv. The details of the hazard communication program developed by the Navy or command.

HAZCOM training for top management, supervisors and employee representatives, non-supervisory personnel, and collateral duty OSH personnel are based on the Department of Defense Federal Hazard Communication Training Program consisting of a trainer's guide, seven videotaped lessons, and an employee's workbook. In FY93, CNET, supported by the Shore NAVOSH Training Working Group, reviewed this material and recommended to the T&E QMB that no changes are necessary for the training material. To meet this requirement, OPNAVINST 5100.23E requires full-time OSH personnel to take the NAVOSHENVTRACEN course, *Introduction to Hazardous Materials (Ashore)* (A-493-0031).

c. **Hazardous Waste Operations and Emergency Response Training**. 29 CFR 1910.120 requires formal classroom training and supervised on-site field experience in hazardous waste (HW) operations before employee involvement in the clean-up of HW sites, HW facility operations, and emergency response actions involving HW. The *Environmental and Natural Resources Protection* **NTSP** (N45-NTSP-X-10-96-01) addresses the quality of the occupational safety and health training in these courses.

d. **Specific Workplace Exposure Training**. OSHA Pamphlet 3343 lists specific workplace training required by 29 CFR 1910, 1915, and 1926. Either NAVOSH personnel or supervisors may provide this job-specific training. Paragraphs 5.and 6. below discuss specific workplace exposure training required by 29 CFR 1910 for personnel exposed to the hazards of asbestos and lead.

Appendix 7-C of OPNAVINST 5100.23E provides a training guide to meet mandated HMC&M requirements. This appendix provides guidance to shore activities for preparation of local HMC&M training programs. Each site must prepare detailed training presentations based on specific needs and regulatory requirements. This training will vary with the activity's mission and associated hazards. The Shore NAVOSH Working Group and BUMED reviewed the Appendix 7-C training guide outlines and determined a lesson guide within the *NAVOSH Training Guide for Shore Activities* met these requirements.

4. **Hearing Conservation**.

a. OPNAVINST 5100.23E requires that appropriate supervisory personnel and all personnel in the hearing conservation program receive one hour of training upon entry into the program and refresher training thereafter. Activities can tailor refresher training to the individual and provide it at the time of an employee's annual audiogram. Each activity must develop its own training to meet this requirement. During FY96, CNET, in coordination with the Shore NAVOSH Training Working Group and BUMED reviewed available training materials. They made a recommendation to the T&E QMB that shore activities could use the *NAVOSH Training Guide for Shore Activities* to meet these requirements.

b. **Hearing Conservation Techniques (B-300-0039)**. This 4-day course is provided by numerous shore medical commands, including the NAVENVIRHLTHCEN. This course provides basic instruction in: operation of manual, microprocessor and group-configured audiometric equipment for completion of audiograms in support of the hearing conservation program; the classification of audiograms; fitting and dispensing of hearing protective devices; OSHA and DON recordkeeping requirements; referral and disposition; and related medical aspects of the hearing conservation program. The training resource sponsor is N093. BUMED should review this training triennially to ensure it incorporates guidance contained in OPNAVINSTs 5100.19C and 5100.23E and report the results to the T&E QMB.

5. **Asbestos**

a. During non-building related asbestos work, Navy employees who work with or handle asbestos and their supervisors must receive annual training on the health hazards of asbestos. This training must include the synergistic effects of smoking and exposure to asbestos; uses of asbestos that could result in an exposure; engineering controls and work practices associated with asbestos work assignments; purpose, use, and limitations of protective equipment; the purpose and description of the medical surveillance program; a description of emergency and cleanup procedures; and an overall review of the requirements of OPNAVINST 5100.23E and their command's asbestos program. In FY96 CNET, in coordination with the Shore NAVOSH Training Working Group and BUMED reviewed available asbestos training material. They made a recommendation, approved by the T&E QMB, that activities could use a NAVOSHENVTRACEN-developed lesson guide within the *NAVOSH Training Guide for Shore Activities* to meet these requirements.

b. Personnel who perform asbestos-related work as workers, supervisors, inspectors, or project designers in buildings (including ships) owned or operated by the Navy must be certified by attending a U.S. Environmental Protection Agency (EPA) or state-accredited Asbestos Hazard Emergency Response Act (AHERA) training. Personnel must renew their certification annually. CNET, working with BUMED should ensure that training requirements for asbestos (i.e., for supervisors, workers) and all training course materials are updated to reflect recent changes in the OSHA asbestos standards. The NAVOSHENVTRACEN proposed and the T&E QMB agreed that they should establish additional asbestos courses for inspectors, management planners, and project designers commencing in FY99. A pilot effort was started in FY99 and these courses have been added to the FY00 schedule.

6. **Lead Control**. OPNAVINST 5100.23E requires personnel who work in areas where the potential exists for lead exposure at or above the action limit and their supervisors to receive initial and annual refresher training. This training should discuss the specific nature of operations exposing personnel to lead; the purpose, proper selection, fit testing, use, and limitations of respirators; the adverse health effects of lead; the purpose and description of the medical surveillance program, engineering controls and work practices; and their activity's lead compliance plan. CNET, with the Shore NAVOSH Training Working Group and BUMED reviewed, in FY97, available training material on lead compliance programs. They made a recommendation to the T&E QMB that activities could use the *NAVOSH Training Guide for Shore Activities* to meet these requirements.

7. **Radio Frequency Radiation (RFR)**.

a. **Radiation Safety Officer Course (S-4J-0016)**. This 12-day course provides radiation safety training to Navy/Marine Corps officer, enlisted, and civilian (civil service) personnel prior to their assignment as radiation safety officer (RSO) or assistant radiation safety officer (ARSO) for activities possessing Naval Radioactive Materials Permits (NRMP). Commands requiring this positional training include but are not limited to: those utilizing NRC-licensed radioactive material for isotopic radiography, RADIAC calibration, and operations involving portable/fixed gauges, analytical measuring instruments, or gas chromatography; commands associated with the storage and shipment of radioactive commodities; and commands utilizing linear accelerators for industrial purposes. NAVSEASYSCOM and BUMED should review this course triennially to ensure compliance with OPNAVINSTs 5100.23E and 5100.19C and report the results of this review to the T&E QMB. The resource sponsor for this training is NAVSEASYSCOM.

b. Shore activities must provide RFR training to all employees who work with RFR sources or work in an area where the potential may exist for exposure to RFR above the Permissible Exposure Limits. In FY97, CNET, with the Shore NAVOSH Working Group, BUMED, and SPAWAR reviewed available training material on RFR. They made a recommendation to the T&E QMB that activities could use the *NAVOSH Training Guide for Shore Activities* to meet these requirements..

c. **Laser System Safety Officer (Category I) (A-493-0038)**. This 6-day course taught at the NAVOSHENVTRACEN provides personnel assigned as full-time/collateral duty Category I Laser System Safety Officers (LSSOs) with the training to identify and apply the specific requirements for control of laser radiation hazards in the ashore and afloat environments. A Category I LSSO is qualified to: calculate or measure laser safety parameters; conduct laser radiation hazard surveys and evaluations; classify lasers and laser systems; conduct technical aspects of laser incident investigations; and train category II LSSO (with SPAWAR approval). The NAVOSHENVTRACEN should review this course as a part of the quality assurance effort and report the results to the T&E QMB.

d. **Laser Systems Safety Officer (Category II) (A-493-0067)**. This 2-day course conducted by the NAVOSHENVTRACEN provides personnel assigned as a

Category II Laser Systems Safety Officer (LSSO) with the training necessary to develop and manage a Laser Safety Program. All activities with Class IIIb, IV, or military exempt lasers shall have a laser system safety officer attend this training before assumption of duty. Detailed information on this course is contained in paragraph I.H.4.b.(4)(a)11.e.

8. **Confined Space Entry**

a. **Confined Space Safety (A-493-0030)**. This 8-day NAVOSHENVTRACEN course is designed to meet the Shore Activity Gas Free Engineering/Confined Space Entry training requirements of NAVSEA S6470-AA-SAF-010 (maritime) and OPNAVINST 5100.23E (non-maritime). These instructions require this course (or equivalent training) before appointment as a shore activity confined space program manager (CSPM)/assistant confined space program manager (ACSPM). Personnel who qualify as Navy Maritime Gas Free Engineers or Technicians may serve as CSPM or ACSPM. The NAVOSHENVTRACEN should review this course as a part of its quality assurance effort and report the results to the T&E QMB.

b. OPNAVINST 5100.23E requires the CSPM to train and certify qualified persons on confined space entry procedures and train rescue team personnel on confined space entry hazards, rescue duties, and the necessary precautions. CNET, with NAVSEASYSCOM and the Shore Working Group obtained available Navy activity training material in FY97. The Shore Working Group is reviewing this material and available videotape training material and will provide a recommendation to the T&E QMB .

9. **Weight Handling Equipment (WHE)**

a. **Crane Safety (A-493-0074).** The NAVOSHENVTRACEN provides this 4-day course for OSH professionals. This course covers OSHA standards applicable to shore weight-handling operations. The NAVOSHENVTRACEN should review this course as a part of its quality assurance program and report the results to the T&E QMB.

b. NAVFACENGCOM P-307 requires shore activities to provide WHE operators with an initial 40 hours of formal classroom instruction on crane operating safety, plus 8 hours of refresher training at the time of license renewal. Currently no standard Navy course exists that meets this requirement, nor any prescribed formal course of

instruction for certifying WHE instructors/examiners or WHE inspectors. As a result of a Naval Inspector General report on crane safety, CNO/SECNAV tasked the Navy Crane Center to establish suitable training for WHE operators in FY99.

10. **Mishap Investigation**. Comprehensive investigations of mishaps and accurate recordkeeping are essential to the success of the NAVOSH Program. OPNAVINST 5100.23E establishes mishap investigation and recordkeeping requirements. The following training supports these requirements:

a. **Mishap Investigation (Ashore) (A-493-0078).** This 5-day course provides full-time shore OSH personnel/safety officers and designated activity collateral-duty OSH managers/safety officers with the training needed to conduct and participate in the investigation of mishaps and recording and reporting procedures for shore on-duty and off-duty personnel. The course content includes: change analysis, administrative considerations, energy-barrier target analyses, definitions, types of mishap investigations, Shore Safety Investigation Report (SSIR) requirements, and activity mishap training. The NAVOSHENVTRACEN should review this course as a part of its quality assurance program.

b. **Mishap Recordkeeping Seminar (A-493-0079).** This 1-day seminar provides full-time OSH personnel and designated OSH office personnel with the training needed to prepare Safety Reports, maintain logs of Navy occupational injuries and illnesses, and prepare annual reports of Navy civilian occupational injuries and illnesses. The NAVOSHENVTRACEN should review this seminar as a part of its quality assurance program.

c. The T&E QMB tasked the Naval Safety Center with revising and updating the *Afloat* and *Ashore Mishap Investigation Handbooks* to make them “friendlier” documents and improve the quality of afloat mishap investigations. The Naval Safety Center reported that they have upgraded the afloat publication. They will submit it to the T&E QMB for review in FY99.

11. **Bloodborne Pathogens.** OPNAVINST 5100.23E requires all personnel who are occupationally exposed to bloodborne pathogens to have annual training. Activities should provide new personnel with training at the time of initial assignment to tasks involving occupational exposure to such pathogens. BUMED identified a commercial

videotape for awareness training and took action to attach a Navy leader and trailer. BUMED distributed the material to designated activities in FY96.

OPNAVINST 5100.23E requires CNET to provide bloodborne pathogen training and training materials meeting the requirements of 29CFR1910.1030 through the NAVOSHENVTRACEN. This training shall be coordinated with BUMED. CNET shall develop this material in FY99/00 for distribution beginning in FY01.

12. **Reproductive Hazards in the Workplace.** OPNAVINST 5100.23E requires all occupational safety and health professionals and appropriate physicians to receive training relative to reproductive hazards. The BUMED Reproductive Hazards Review Board determined the type of training required for these personnel and made a recommendation for including this training into NAVOSHENVTRACEN courses. The NAVOSHENVTRACEN should report the completion of this effort to the T&E QMB.

13. **Energy Control Program (Lockout/Tagout).** OPNAVINST 5100.23E requires CNET to:

a. Develop a lockout/tagout training syllabus and related performance qualification standards to include the provisions of lockout/tagout.

b. Provide specialized lockout/tagout training where necessary.

c. Integrate lockout/tagout principles and procedures into the Navy Supply Corps School and the Naval School Civil Engineering Corps Officers.

d. Incorporate lockout/tagout information into the curriculum of all appropriate training courses.

e. Serve as the central source for delivery and dissemination of information on Navy lockout/tagout training.

During FY96, CNET developed and completed a POA&M for accomplishing the requirements listed in paragraphs a. through e. above. CNET will continue to monitor tagout/lockout provisions in training and make recurring reports to the T&E QMB on the results of this monitoring.

14. **NAVOSH Professional Development Conference**. The Navy holds a NAVOSH Professional Development Conference annually. The location of this conference changes from the East Coast to West Coast on alternate years. This conference addresses professional presentations of interest to the Navy NAVOSH community. The NAVOSHENVTRACEN provides the administration of the NAVOSH Professional Development Conference. The conference covers a variety of NAVOSH topics designed for safety managers and officers both ashore and afloat. The first day is reserved for major claimant meetings, the second day is a keynote general session, the third day is concurrent sessions, and the last 2 days provide training seminars.

15. **Construction Battalion Safety.** The CINCPACFLT representative raised the issue of whether the Construction Safety Standards course (A-493-0021) was meeting the needs of construction battalion personnel. The T&E QMB-directed audit is complete. The NAVOSHENVTRACEN, with participation of CINCLANTFLT, CINCPACFLT, CBC Port Hueneme, and CBC Gulfport, will now conduct a training requirements review to determine if the course meets the needs of the construction battalions. The training requirements review should report results and recommendations to the T&E QMB.

c. **On Board Training.** See Part I.K.

d. **Student Profiles.** Not applicable.

e. **Training Pipelines.** Not applicable.

f. **Total Ship Billet Training Profile (BTP).** Not applicable.

g. **Reserve Component Program Billet Training Profile (BTP).** Not applicable.

## Part I.I. LOGISTICS

1. **Manufacturer.** Not applicable.

2. **Contractor Numbers.** Not applicable.

3. **Integrated Logistics Support Plan (ILSP) Development.** Not applicable.

4. **Technical Data Plan.**

a. **Surface Ships and Submarines** CNO (N45) developed and maintains a NAVOSH Program Manual for Forces Afloat, OPNAVINST 5100.19C. This NAVOSH (Afloat) Program Manual is the primary reference text for all ship NAVOSH and HMC&M training courses. Chapter A7 of this manual defines the training requirements for the afloat NAVOSH Program. The Type Commanders reviewed their training requirement instructions and ensured that these instructions reflect the requirements of OPNAVINST 5100.19C. The OPNAVINST 5100.19C Rewrite PAT is validating and updating all training requirements. In addition, CNO (N09F) developed OPNAVINSTs 5100.12F and 5100.25 on traffic safety and recreation, home, and athletic safety.

b. **Aviation**.

(1) **Ships**. CNO (N45) developed and maintains a NAVOSH Program Manual for Forces Afloat, OPNAVINST 5100.19C. This NAVOSH (Afloat) Program Manual is the primary reference text for all aircraft carrier NAVOSH and HMC&M training.

(2) **Units**. CNO (N45) developed and maintains the NAVOSH Program Manual, OPNAVINST 5100.23E as the primary reference text for all shore NAVOSH and HMC&M training of those aviation units that do not deploy and for those not currently deployed. OPNAVINST 5100.19C applies to aviation squadrons and detachments deployed aboard a ship.

(3) COMNAVAIRLANT and COMNAVAIRPAC have issued a joint training instruction that includes NAVOSH and HMC&M training requirements.

c. **Shore**. CNO (N45) developed and maintains the NAVOSH Program Manual, OPNAVINST 5100.23E, as the primary reference text for all shore NAVOSH and HMC&M training requirements.

d. **MSC**. Since USNS MSC military and/or civil service employee-manned ships have identified manning complexities, CNO has allowed COMSC to develop separate procedures that provide protection equal to or better than OPNAVINST 5100.19C. This was accomplished in COMSCINST 5100.17C. This document is the primary reference text for all program management aspects of the MSC shipboard NAVOSH and HMC&M training

requirements. OPNAVINST 5100.19C, Volume II, is the primary reference text for all NAVOSH and HMC&M safety standards training requirements.

5. **Special Test Sets, Tools, and Test Equipment.** Not applicable.

6. **Repair Parts.** Not applicable.

7. **Human Systems Integration (HSI).** Not applicable.

**Part I.J. SCHEDULES**

1. **Schedule of Events**

a. **Surface Ships**. Initially, surface ships implemented the NAVOSH Program, through collateral duty assignments. In the past, program execution was less than adequate due to major shortfalls in the training support system, such as dedicated instructors, subject matter experts, courses, and program upgrade and evaluation procedures. This **NTSP** identifies the necessary elements for an effective training program to support aggressive NAVOSH and HMC&M Programs. The Navy implementation of this **NTSP** (and its predecessors) resulted in marked improvements in surface ship NAVOSH training.

Continued improvement is dependent on close coordination and frequent communication with fleet users, fleet staffs, CNET staff, school staffs, and resource sponsors. NAVOSH training is vital to safe shipboard operations but must be tailored to best support ship routine and personnel rotations as well as restrain costs. Future training acquisition must conform to the Surface Warfare Training Vision, which advocates significant changes in delivery of training. Interactive Multimedia Instruction, videoteletraining to include transmission to sea, job performance aids embedded in shipboard systems, automated administrative systems, shift of some functions to shore activities are all part of an approach to better support ship operations, especially in reduced manning ships.

Time away from the ship to attend courses detracts from combat readiness and quality of life while being unrealistic for forward deployed and homeported ships. Appropriate support of shipboard training provides the value-added ability to provide training and refresher at sea and while deployed. Initial training requirements that require classroom instruction will always remain, but NAVOSH planning must follow the human centered design process to optimize funding and manpower by looking beyond traditional methods and examine manpower and training costs early in requirement identification and acquisition.

b. **Aviation**. Aviation NAVOSH and HMC&M training is continuously being reviewed and improved. The implementation of this **NTSP** will result in continued improvements to aviation NAVOSH training.

c. **Submarines**. Submarine NAVOSH and HMC&M training is continuously being reviewed and improved. Implementation of this **NTSP** will result in increased improvement to submarine NAVOSH and HMC&M training.

d. **Shore**. The T&E QMB reviewed shore NAVOSH training to ensure compliance with NAVOSH, HMC&M, Office of Personnel Management, and regulatory requirements as a part of the Training and Education Strategy of the NAVOSH Strategic Plan.

(1) They have completed the following goals:

(a) The identification and quantification of Safety and Occupational Health training requirements at all levels within the Navy.

(b) An initial review and upgrade of Navy formal (i.e., scheduled, classroom), on board, and *ad hoc* safety and occupational health training.

(c) An evaluation of sources of formal non-Navy (e.g., DoD, Federal, commercial) safety and occupational health training, determining the quality of such training, and identifying suitable courses for Navy use.

(d) Providing technology-intensive OSH training and education to Navy people.

(2) The following goals remain:

(a) By June2001, ensure that the right people are receiving the right NAVOSH training at the right time.

(b) By March 2000, establish a means to encourage and recognize growth and development for Safety and Occupational Health and Industrial Hygiene personnel.

(c) By October 2000, develop a method for measuring the effectiveness of NAVOSH and Hazardous Material Control and Management (HMC&M) training and apply it to existing training.

This **NTSP** supports the accomplishment of the Training and Education Strategy of the NAVOSH Strategic Plan.

**Part I.K. On Board (Inservice) Training**

1. **Surface Ship On Board Training**. An effective on board training effort is necessary to build and expand upon NAVOSH formal training. The safety officer and the organization of division safety petty officers must implement on board training. Ships' force requirements for on board training are listed in Appendix A7-C of the NAVOSH Program Manual for Forces Afloat and are not repeated. This section addresses training efforts beyond ship's force capability to control but that has a direct and important impact upon on board training. These efforts are Navy Education and Training Manuals and Correspondence Courses, Personnel Qualification Standards, and audio-visual training aids.

The Naval Safety Center and the Afloat Training Groups conduct NAVOSH training aboard ship primarily in the areas of hazard awareness and NAVOSH program compliance. Naval Safety Center and Afloat Training Groups visit ships on demand and are able to tailor visits to meet commanding officer training requirements. Waterfront seminars also provide NAVOSH training. Since Afloat Training Group training is focused on routine, casualty and battle condition watchstanding, NAVOSH training is embedded within operator and maintainer training. Naval Safety Center visits are entirely focused on NAVOSH issues. Additionally, the Naval Safety Center publishes bulletins and magazines for all hands distribution to raise hazard awareness.

a. **Navy Education and Training (NAVEDTRA) Manuals and Correspondence Courses**. NAVEDTRA manuals and correspondence courses may either be NAVOSH/ NAVOSH-related manuals or manuals that contain NAVOSH information.

(1) **NAVOSH/NAVOSH-related Manuals**. The NAVEDTRA manuals that specifically address NAVOSH or NAVOSH-related topics are relatively few. The NAVOSHENVTRACEN will review these manuals triennially to ensure they include the requirements of the NAVOSH Manual for Forces Afloat.

| TITLE | NAVEDTRA No. | OFFICER/ENLISTED |
|---|---|---|
| Naval Safety Supervisor | 12971 | O/E |

| | | |
|---|---|---|
| Off Duty Accident Prevention | 10102 | O/E |
| Investigations | 10726-A1 | O/E |
| NAVOSH Training Guide for Forces Afloat | 10074-A | O/E |

(2) **NAVEDTRA Manuals Which Contain NAVOSH Information**. The majority of technical training manuals, correspondence courses, and advancement-in-rate manuals contain (or should contain) safety precautions associated with described processes, evolutions, or operations for the affected rate or rating. The Naval Safety Center reviewed all applicable manuals in FY91 to ensure compliance with the NAVOSH Program and safety standards and submitted comments to CNET for modification as a part of the next manual/course revision. CNET established procedures to ensure that NAVOSHENVTRACEN conduct future reviews of the manuals for safety and occupational health material during normally scheduled review periods and that manual revisions/ changes are accomplished in a timely manner. CNET makes an annual report on this effort to the T&E QMB.

b. **Personnel Qualification Standards (PQSs)**. Many duties or watch requirements for which a PQS exists will require a detailed knowledge of the safety standards and precautions associated with the processes, evolutions, or operations associated with the duty or watch. NAVOSH requirements specific to those duties and watches are contained within their individual PQS. In the past, the Naval Safety Center reviewed all PQSs prior to revision to ensure that the standard complied with OPNAVINST 5100.19 and other appropriate safety documentation. In FY93, the NAVOSHENVTRACEN assumed this effort. The NAVOSHENVTRACEN will conduct future reviews of PQS during scheduled PQS workshops to ensure they comply with the requirements specified in OPNAVINST 5100.19C. NAVOSHENVTRACEN serves as the PQS Model Manager for the following PQS:

| Title | NAVEDTRA Number |
|---|---|
| Safety Programs Afloat | 43460-4B |
| Hazardous Material/Environmental Protection Programs Afloat | 43528A |
| Aviation Safety Programs | 43218-A |

c. **Audio-visual Training Aids**. Appendix A7-F of OPNAVINST 5100.19C lists ship-related NAVOSH audio-visual training aids that the Navy has on file. The quality and

currency of some of these training aids is unknown. CNET, as PDA, established a POA&M for review of these training aids with a determination of retention, replacement and cancellation. As a result of the training aid review, CNET recommended and the T&E QMB approved the deletion of several audio-visual aids from film libraries. CNET, under Strategic Plan goal 2.5, also reviewed on board training audio-visual training aids and made a determination on retention, deletion, or modification. This effort should continue.

The T&E QMB, is supporting ships with up-to-date on board training materials and commissioned the development of a series of videotapes with accompanying user's guides. The three afloat working groups recommended the types of videotapes and their priority. The following videotapes were developed or are under development:

| PIN | Title | Status | Training Objectives | Target Audience |
|---|---|---|---|---|
| 804764-DN | NAVOSH, It's Protecting You | Distributed | Or | O/E |
| 804939-DN | Hazardous Material Control Afloat | Distributed | Or/Re | O/E |
| 805009-DN | Shipboard Respiratory Protection | Distributed | Or/Re | O/E |
| 805008-DN | Shipboard Electrical Safety | Distributed | Or/Re | O/E |
| 805357-DN | Hazardous Material User's Guide | Distributed | Or | O/E |
| 805081-DN | Shipboard Tagout Procedures | Distributed | Or/Re | O/E |
| 805580-DN | Back to Basics: Back Injury Prevention Afloat | Distributed | Or/Re | O/E |
| 805581-DN | Play It Cool: Heat Stress Prevention Afloat | Distributed | Or/Re | O/E |
| 805570-DN | Shipboard Heating, Ventilation, and Air Conditioning and Shipboard Local Exhaust Ventilation | Distributed | Re | O/E |
| 803442-DN | Flight Deck Safety | Distributed | Or/Re | O/E |
| 805546-DN | Shipboard Hazardous Material Coordinator | Distributed | Re | O |
| 805544-DN | Hazardous Material Control Afloat for Users | Distributed | Or/Re | E |
| 805545-DN | Hazardous Material Control Afloat for Supervisors | Distributed | Re | O/E |
| 805569-DN | Hazardous Material Offload | Distributed | Or/Re | O/E |
| 805733-DN | Brush Up on Safety: Paint Application and Removal | Distributed | Re | E |
| 805760-DN | NAVOSH I Division Training | Distributed | Or | O/E |
| 805902-DN | Shipboard Elevator Safety | Distributed | Re | O/E |
| 806017-DN | Keep on Truckin' - Forklift Truck Operation | Distributed | Re | O/E |
| None | NAVOSH Safety Spots (Safety In Your Hands) | Distributed | Re | E |

Key: Or – Orientation Re – Refresher Training O - Officer E - Enlisted

CNET, working with the afloat working groups, should ascertain the training aids necessary to support a viable on board training program. Annually, the T&E QMB should develop a POA&M specifying the topics, type of aids (videotape (with user's guide), slide-cassette, lesson plan

with slides or transparencies), the sponsor, distribution, and required completion date. CNET should program for the development of these training aids.

d. **Shipboard Training Enhancement Program (STEP).** STEP, a CNO (N869)-sponsored program, delivers interactive multimedia instruction (IMI) compact disks (CDs) Navy-wide to provide shore 'F'-type courses of instruction. CNET (ETE), as the executive agent, overseas NETPDTC production of courses and CD distribution. Courses follow an integrated project team development process that teams software authors with instructor and fleet subject matter experts. Courses are assigned a CIN and CCMM. Lifecycle management is funded and executed in the same manner as classroom courses. Three early attempts to include NAVOSH courses in STEP were terminated due to discontinued requirement and inappropriate inclusion of rapidly changing course material. STEP has matured and addressed initial problems identified in development and life cycle management. Through established procedures, CNO (N869) and CNET (ETE) are committed to deliver only appropriate material as IMI and ensure that lifecycle management results in quality, current IMI.

e. **Future Developments.** Significant changes to future ship manning dictate a distinctly different approach to training for surface ships. Solely continuing traditional training methods will not support future ship operations and will incur unaffordable costs, both monetary and operationally. NAVOSH manpower and training planners must develop requirements in the context of the human centered design process. For example, up-front investment in high quality job performance aids or "on-line help" embedded in software systems are far more effective and less expensive over the life of a system than traditional manpower and training concepts. In some cases, training requirements are best met by a combination of IMI, classroom instruction, videotapes, videoteletraining, and other formats. Innovation and frequent early communication with the platform resource sponsor will ensure success in plans for NAVOSH training.

2. **Submarine On Board Training**. The Submarine NAVOSH Training Working Group addresses on board NAVOSH training requirements for submarines. As described in paragraph I.H.4.a.(1)(c), COMSUBGRU Two (SOBT) produced a submarine oriented NAVOSH awareness videotape, entitled *Forces Afloat Introduction to the NAVOSH Program* and distributed it to all submarines.

3. **Aviation On Board Training**. A videotape on flight deck safety was produced during FY92. The Aviation NAVOSH Training Working Group should address additional, unique aviation training requirements.

4. **Shore On Board Training**. A comprehensive on-the-job training effort is necessary to maintain effective NAVOSH and HMC&M training programs. Supervisors, in conjunction with the Safety and Health Office, shall provide this training at shore activities. Activities are responsible for evaluating the effectiveness of their training programs. This section addresses training efforts beyond the activity's capability to control, but will have an overall impact on the NAVOSH and HMC&M training programs.

a. **NAVOSH/NAVOSH-related Manuals**. Few shore NAVEDTRA manuals specifically address NAVOSH or NAVOSH-related topics. Those that do will be reviewed triennially to ensure they coincide with the requirements of the NAVOSH Manual.

| TITLE | NAVEDTRA No. | OFFICER/ENLISTED/CIVILIAN |
|---|---|---|
| NAVOSH Training Guide for Shore Activities | 10092 | O/E/C |
| Career Development Program for Safety and Occupational Health and Industrial Hygiene Personnel | 10076A | O/E/C |

b. **Audio-visual training programs**

(1) **Audio-visual Materials**. The following on board training programs (including audio-visual materials and accompanying lesson plans) were developed to support the Shore NAVOSH Program:

| PIN | Title | Status |
|---|---|---|
| 805461-DN | Lockout/Tagout | Distributed |
| 805462-DN | Electrical Safety Principles, Part I and Electrical Safety Principles, Part II | Distributed |
| 610483-DN | Office Ergonomics Including Carpal Tunnel Syndrome | Distributed |
| 610484-DN | Industrial Ergonomics | Distributed |
| 805114-DN | HMC&M for Senior Management | Distributed |
| 805115-DN | HMC&M for Users | Distributed |
| 806083-DN | Management of Reproductive Hazards in Navy Workplaces | Distributed |
| 806198-DN | Shore Facility Ventilation Operation and Maintenance | Distributed |
| 806265-DN | NAVOSH Strategic Plan – Helping to Protect Your People | Distributed |

(2) **Future Requirements**. The Shore Working Group is producing a NAVOSH orientation videotape for all shore activities to use. This videotape will be complete in 1999.

c. **Computer Assisted Instruction**. The Shore Working Group should consider computer-based training (CBT) in its recommendations to the T&E QMB on other on board training materials.

d. **NAVOSH Training Modules and Lesson Plan Topics**. The NAVOSHENVTRACEN developed a series of training modules for use in on board training. In 1994, the NAVOSHENVTRACEN reviewed the modules and converted them into a series of training plans, packaged in a publication, *NAVOSH Training Guide for Shore Activities*, NAVEDTRA 10092. The guide contains lesson plans, general training information, lists of videotapes and formal courses, as well as the entire Federal Hazard Communications Standard training program Trainer's Guide. Upon completion of peer review and development of additional guides, CNET will republish the publication.

## Part I.L. GOVERNMENT FURNISHED EQUIPMENT (GFE) AND CONTRACTOR FURNISHED EQUPMENT (CFE) TRAINING REQUIREMENTS

Not applicable.

## Part I.M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

| NTSP/DOCUMENT TITLE | DOCUMENT/ NTSP NUMBER | PDA CODE | STATUS |
|---|---|---|---|
| NAVOSH Program Manual for Forces Afloat | OPNAVINST 5100.19C w/ CH-1 & CH-2 | | Effective |
| NAVOSH Program Manual | OPNAVINST 5100.23E | | Effective |
| Environmental and Natural Resources Program Navy Systems Training Plan | NTP X-90-9201 | | Effective |
| Military Sealift Command Safety and Occupational Health Manual | COMSCINST 5100.17C | | Effective |

## PART II - BILLET AND PERSONNEL REQUIREMENTS

### II.A BILLET REQUIREMENTS

#### IIA.1.a OPERATIONAL AND FLEET SUPORT ACTIVITY ACTIVATION SCHEDULE

Not Applicable

#### II.A.1.b BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

Primary duty billets for safety officers are currently authorized in CV/CVN, LHA, LHD, and MCS type ships. Four primary duty billets for industrial hygiene officer (IHO) safety officers are authorized aboard AS-type ships. Twelve primary duty billets for IHO assistant safety officers are authorized aboard CV and CVN type ships. CNO (N86) has identified eight LT/111X officer billets for primary duty safety officer aboard AOE ships. All other NAVOSH Safety Officer assignments in surface ships and submarines are on a collateral duty basis.

PART II - BILLET AND PERSONNEL REQUIREMENTS

**FY99 OPERATIONAL BILLETS**

| SHIP TYPE | SHIPS | DIVISIONS | SAFETY OFFICERS (1) | HM/HW COORDINATORS | SAFETY PETTY OFFICERS | HMC&M TECHNICIAN (SNEC 9595) |
|---|---|---|---|---|---|---|
| AFDM | 4 | 4 | 4 | 4 | 16 | 16 |
| AGF | 2 | 15 | 2 | 2 | 30 | 18 |
| AOE | 8 | 22 | 8(2) | 8 | 176 | 56 |
| ARS | 4 | 5 | 4 | 4 | 20 | 8 |
| AS | 4 | 40 | 4 | 4 | 160 | 32 |
| CG | 27 | 18 | 27 | 27 | 432 | 189 |
| CV | 2 | 63 | 4 | 2 | 126 | 88 |
| CVN | 10 | 87 | 20 (1)(2) | 10 | 870 | 243 |
| DD | 24 | 16 | 24 | 24 | 384 | 192 |
| DDG | 28 | 16 | 28 | 28 | 448 | 196 |
| FFG | 37 | 13 | 37 | 37 | 481 | 148 |
| LCC | 2 | 25 | 2 | 2 | 50 | 8 |
| LHA | 5 | 40 | 5(2) | 5 | 200 | 70 |
| LHD | 6 | 41 | 6(2) | 6 | 246 | 84 |
| LPD | 11 | 18 | 11 | 11 | 198 | 99 |
| MCS | 1 | 40 | 1(2) | 1 | 40 | 10 |
| LSD | 14 | 14 | 14 | 14 | 196 | 98 |
| LST | 2 | 12 | 2 | 2 | 24 | 14 |
| MCM | 8 | 4 | 8 | 8 | 32 | 8 |
| MHC | 12 | 4 | 12 | 12 | 48 | 24 |
| PC | 8 | 4 | 8 | 8 | 32 | 8 |
| SSBN | 18 | 17 | 36(3)(4) | 36(3) | 0 | 72 |
| SSN | 74 | 14 | 74(4) | 74 | 0 | 148 |
| TAE | 6 | 0 | 6 | 6 | 0 | 0 |
| TAFS | 6 | | 6 | 6 | 0 | 0 |
| TAGM | 3 | | 3 | 3 | 0 | 0 |
| TAGS | 1 | | 1 | 1 | 0 | 0 |
| TAH | 2 | 0 | 4(5) | 2 | 0 | 0 |
| TAO | 14 | | 14 | 14 | 0 | 0 |
| TARC | 1 | | 1 | 1 | 0 | 0 |
| TATF | 6 | | 6 | 6 | 0 | 0 |
| **TOTAL** | 350 | - | 382 | 368 | 4,209 | 1837 |

**NOTES:** Continued on next page

**NOTES:** Continued

(1) Includes Assistant Safety Officers
(2) Primary Duty Officers
(3) Two crews per SSBN
(4) Safety Officers attend Submarine Safety Officer Training None Required
(5) Includes Medical Treatment Facility

PART II - BILLET AND PERSONNEL REQUIREMENTS

**FY00 OPERATIONAL BILLETS**

| SHIP TYPE | SHIPS | DIVISIONS | SAFETY OFFICERS (1) | HM/HW COORDINATORS | SAFETY PETTY OFFICERS | HMC&M TECHNICIAN (SNEC 9595) |
|---|---|---|---|---|---|---|
| AFDM | 4 | 4 | 4 | 4 | 16 | 16 |
| AGF | 2 | 15 | 2 | 2 | 30 | 18 |
| AOE | 8 | 22 | 8(2) | 8 | 176 | 56 |
| ARS | 4 | 5 | 4 | 4 | 20 | 8 |
| AS | 4 | 40 | 4 | 4 | 160 | 32 |
| CG | 27 | 18 | 27 | 27 | 432 | 189 |
| CV | 2 | 63 | 4 | 2 | 126 | 88 |
| CVN | 10 | 87 | 20 (1)(2) | 10 | 870 | 243 |
| DD | 24 | 16 | 24 | 24 | 384 | 192 |
| DDG | 30 | 16 | 30 | 30 | 480 | 210 |
| FFG | 35 | 13 | 35 | 35 | 455 | 148 |
| LCC | 2 | 25 | 2 | 2 | 50 | 8 |
| LHA | 5 | 40 | 5(2) | 5 | 200 | 70 |
| LHD | 6 | 41 | 6(2) | 6 | 246 | 84 |
| LPD | 11 | 18 | 11 | 11 | 198 | 99 |
| MCS | 1 | 40 | 1(2) | 1 | 40 | 10 |
| LSD | 14 | 14 | 14 | 14 | 196 | 98 |
| LST | 2 | 12 | 2 | 2 | 24 | 14 |
| MCM | 8 | 4 | 8 | 8 | 32 | 8 |
| MHC | 12 | 4 | 12 | 12 | 48 | 24 |
| PC | 8 | 4 | 8 | 8 | 32 | 8 |
| SSBN | 18 | 17 | 36(3)(4) | 36(3) | 0 | 72 |
| SSN | 74 | 14 | 74(4) | 74 | 0 | 148 |
| TAE | 6 | 0 | 6 | 6 | 0 | 0 |
| TAFS | 6 | | 6 | 6 | 0 | 0 |
| TAGM | 3 | | 3 | 3 | 0 | 0 |
| TAGS | 1 | | 1 | 1 | 0 | 0 |
| TAH | 2 | 0 | 4(5) | 2 | 0 | 0 |
| TAO | 14 | | 14 | 14 | 0 | 0 |
| TARC | 1 | | 1 | 1 | 0 | 0 |
| TATF | 6 | | 6 | 6 | 0 | 0 |
| **TOTAL** | 350 | - | 382 | 368 | 4,215 | 1843 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

**FY01 OPERATIONAL BILLETS**

| SHIP TYPE | SHIPS | DIVISIONS | SAFETY OFFICERS (1) | HM/HW COORDINATORS | SAFETY PETTY OFFICERS | HMC&M TECHNICIAN (SNEC 9595) |
|---|---|---|---|---|---|---|
| AFDM | 4 | 4 | 4 | 4 | 16 | 16 |
| AGF | 2 | 15 | 2 | 2 | 30 | 18 |
| AOE | 8 | 22 | 8(2) | 8 | 176 | 56 |
| ARS | 4 | 5 | 4 | 4 | 20 | 8 |
| AS | 4 | 40 | 4 | 4 | 160 | 32 |
| CG | 27 | 18 | 27 | 27 | 432 | 189 |
| CV | 2 | 63 | 4 | 2 | 126 | 88 |
| CVN | 10 | 87 | 20 (1)(2) | 10 | 870 | 243 |
| DD | 24 | 16 | 24 | 24 | 384 | 192 |
| DDG | 33 | 16 | 33 | 33 | 528 | 196 |
| FFG | 32 | 13 | 32 | 32 | 416 | 148 |
| LCC | 2 | 25 | 2 | 2 | 50 | 8 |
| LHA | 5 | 40 | 5(2) | 5 | 200 | 70 |
| LHD | 6 | 41 | 6(2) | 6 | 246 | 84 |
| LPD | 11 | 18 | 11 | 11 | 198 | 99 |
| MCS | 1 | 40 | 1(2) | 1 | 40 | 10 |
| LSD | 14 | 14 | 14 | 14 | 196 | 98 |
| LST | 2 | 12 | 2 | 2 | 24 | 14 |
| MCM | 8 | 4 | 8 | 8 | 32 | 8 |
| MHC | 12 | 4 | 12 | 12 | 48 | 24 |
| PC | 8 | 4 | 8 | 8 | 32 | 8 |
| SSBN | 18 | 17 | 36(3)(4) | 36(3) | 0 | 72 |
| SSN | 74 | 14 | 74(4) | 74 | 0 | 148 |
| TAE | 6 | 0 | 6 | 6 | 0 | 0 |
| TAFS | 6 | | 6 | 6 | 0 | 0 |
| TAGM | 3 | | 3 | 3 | 0 | 0 |
| TAGS | 1 | | 1 | 1 | 0 | 0 |
| TAH | 2 | 0 | 4(5) | 2 | 0 | 0 |
| TAO | 14 | | 14 | 14 | 0 | 0 |
| TARC | 1 | | 1 | 1 | 0 | 0 |
| TATF | 6 | | 6 | 6 | 0 | 0 |
| **TOTAL** | 351 | - | 383 | 369 | 4,224 | 1852 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

**FY02 OPERATIONAL BILLETS**

| SHIP TYPE | SHIPS | DIVISIONS | SAFETY OFFICERS (1) | HM/HW COORDINATORS | SAFETY PETTY OFFICERS | HMC&M TECHNICIAN (SNEC 9595) |
|---|---|---|---|---|---|---|
| AFDM | 4 | 4 | 4 | 4 | 16 | 16 |
| AGF | 2 | 15 | 2 | 2 | 30 | 18 |
| AOE | 8 | 22 | 8(2) | 8 | 176 | 56 |
| ARS | 4 | 5 | 4 | 4 | 20 | 8 |
| AS | 4 | 40 | 4 | 4 | 160 | 32 |
| CG | 27 | 18 | 27 | 27 | 432 | 189 |
| CV | 2 | 63 | 4 | 2 | 126 | 88 |
| CVN | 10 | 87 | 20 (1)(2) | 10 | 870 | 243 |
| DD | 23 | 16 | 23 | 23 | 368 | 184 |
| DDG | 37 | 16 | 37 | 37 | 592 | 259 |
| FFG | 28 | 13 | 28 | 28 | 364 | 112 |
| LCC | 2 | 25 | 2 | 2 | 50 | 8 |
| LHA | 5 | 40 | 5(2) | 5 | 200 | 70 |
| LHD | 6 | 41 | 6(2) | 6 | 246 | 84 |
| LPD | 12 | 18 | 12 | 12 | 216 | 108 |
| MCS | 1 | 40 | 1(2) | 1 | 40 | 10 |
| LSD | 12 | 14 | 12 | 12 | 168 | 84 |
| LST | 1 | 12 | 1 | 1 | 12 | 7 |
| MCM | 8 | 4 | 8 | 8 | 32 | 8 |
| MHC | 12 | 4 | 12 | 12 | 48 | 24 |
| PC | 8 | 4 | 8 | 8 | 32 | 8 |
| SSBN | 18 | 17 | 36(3)(4) | 36(3) | 0 | 72 |
| SSN | 74 | 14 | 74(4) | 74 | 0 | 148 |
| TAE | 6 | 0 | 6 | 6 | 0 | 0 |
| TAFS | 6 | | 6 | 6 | 0 | 0 |
| TAGM | 3 | | 3 | 3 | 0 | 0 |
| TAGS | 1 | | 1 | 1 | 0 | 0 |
| TAH | 2 | 0 | 4(5) | 2 | 0 | 0 |
| TAO | 14 | | 14 | 14 | 0 | 0 |
| TARC | 1 | | 1 | 1 | 0 | 0 |
| TATF | 6 | | 6 | 6 | 0 | 0 |
| **TOTAL** | 349 | - | 381 | 367 | 4,198 | 1844 |

## FLEET SUPPORT BILLETS

CNO (N86) has authorized 9 LT/1110 officer billets for primary duty safety officer on afloat staffs. Eleven billets are required for IHOs as safety officers on Type Commander and Systems Commander Staffs.

| FLEET SUPPORT UNIT & UIC | TOTAL PER UNIT OFF | TOTAL PER UNIT ENL | MAINTENANCE OFF | MAINTENANCE ENL | O&M/OTHER OFF | O&M/OTHER ENL | TEAM OFF | TEAM ENL | RANK RATE RANKING | NOBC PNEC | SNEC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Type Commander Staff | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | O-4 | 0862/1861 | |
| Major Command Staff | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | O-5/O-6 | 0862/1861 | |
| Board of Inspection and Survey | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | O-4/O-5 | 0862/1861 | |
| Afloat Staffs | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | O-3 | 1110 | |

## CIVILIAN NAVOSH PERSONNEL

The following civilian safety and occupational health positions are authorized for the Navy (by series):

| Series | NREMP Count |
|---|---|
| 0018 | 1015 |
| 0019 | 88 |
| 0690 | 301 |
| 0803 | 59 |
| Total | 1463 |

## II.A.1.c TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

| | RANK/RATE RATING | NOBC/ PNEC/SNEC | PFYs | | | CFY 99 | | | FY 00 | | | FY 01 | | | FY 02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| OPERATIONAL ACTIVITIES - ACDU | | | | | | | | | | | | | | | | | | | | |
| Afloat Staff Billets (1) | LT (0-3) 111X | | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| CV/CVN Billets (2) | CDR (O-5) 13XX | | 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 |
| | LTJG (0-2) 230X | 0862/ 1861 | 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 12 | 0 | 0 |
| Surface Ship AOE Billets (3) | LT (O-3) 111X | | 8 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 |
| Surface Ship IHO Support Billets (AS) (4) | LCDR (0-4) 230X | 0862/ 1861 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 |
| Ship Safety Officer Billets (5) | LCDR/LT/CIVMAR | | 311 | 2 | 39 | 311 | 2 | 39 | 311 | 2 | 39 | 312 | 2 | 39 | 310 | 2 | 39 | 307 | 2 | 39 |
| Afloat HM Coordinator (6) | Various 14XX/CIVMAR | | 330 | 29 | 39 | 301 | 28 | 39 | 301 | 28 | 39 | 302 | 28 | 39 | 300 | 28 | 39 | 297 | 28 | 39 |
| Surface Ship Div Safety PO Billets(7) | Various | | 0 | 5664 | 0 | 0 | 4209 | 0 | 0 | 4215 | 0 | 0 | 4224 | 0 | 0 | 4198 | 0 | 0 | 4165 | 0 |
| HMC&M Technician (7) | E-5/E6 Various | 9595 | 0 | 1999 | 0 | 0 | 1837 | 0 | 0 | 1843 | 0 | 0 | 1852 | 0 | 0 | 1855 | 0 | 0 | 1844 | 0 |

**Notes:** (1) These are Primary Duty Safety Officer billets on surface afloat staffs.
(2) These are Primary Duty Safety Officers and Primary Duty Assistant Safety Officers on aircraft carriers (CVs/CVNs). The Safety Officers are aviators. The Assistant Safety Officers are Medical Service Corps IHOs (0862/1861).
(3) These are Primary Duty Safety Officers on fast combat support ships (AOEs).
(4) These are Primary Duty Safety Officers on submarine tenders (ASs).
(5) These are collateral duty Safety Officers on ships other than CVs, CVNs, AOEs, and ASs.
(6) These are primarily Supply Corps (O-3 to O-5), some enlisted on small ships, and civilians (CIVMAR) on MSC ships.
(7) These are shipboard petty officers assigned as Division Safety Petty Officers.
(8) Enlisted of any rating assigned as HMC&M Technicians aboard ship.

| | RANK/RATE RATING | NOBC/ PNEC/SNEC | PFYs OFF | PFYs ENL | CFY 99 OFF | CFY 99 ENL | FY 00 OFF | FY 00 ENL | FY 01 OFF | FY 01 ENL | FY 02 OFF | FY 02 ENL | FY03 OFF | FY03 ENL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FLEET SUPPORT ACTIVITIES - ACDU | | | | | | | | | | | | | | |
| Fleet CINC Staff Billets | CDR (0-5) 230X | 0862/ 1861 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 |
| Type Commander Staff Billets | LCDR (O-4) 230X | 0862/ 1861 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 0 |
| INSURV Staff Billets | CDR (O-5) 230X | 0862/ 1861 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Staff Billets | LCDR (O-4) 230X | 0862/ 1861 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 | 0 |
| Systems Command Billets | LCDR (O-4) 230X | 0862/ 1861 | 3 | 0 | 3 | 0 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 |

| SUMMARY TOTALS | PFYs OFF | PFYs ENL | PFYs CIV | CFY 99 OFF | CFY 99 ENL | CFY 99 CIV | FY 00 OFF | FY 00 ENL | FY 00 CIV | FY 01 OFF | FY 01 ENL | FY 01 CIV | FY 02 OFF | FY 02 ENL | FY 02 CIV | FY03 OFF | FY03 ENL | FY03 CIV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OPERATIONAL ACDU | 686 | 7694 | 78 | 657 | 6076 | 78 | 657 | 6088 | 78 | 659 | 6106 | 78 | 655 | 6083 | 78 | 649 | 6039 | 78 |
| FLEET SUPPORT ACDU | 15 | 0 | 0 | 15 | 0 | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 16 | 0 | 0 |
| GRAND TOTAL ACDU | 701 | 7694 | 78 | 672 | 6076 | 78 | 673 | 6086 | 78 | 675 | 6106 | 78 | 671 | 6083 | 78 | 665 | 6039 | 78 |

## II.A.2.a OPERATIONAL AND FLEET SUPPORT ACTIVITY DEACTIVATION SCHEDULE

Not Applicable

## II.A.2.b BILLETS TO BE DELETED IN OPERATIONAL AND FLEET SUPPORT ACTIVITIES

Not Applicable

## II.A.2.c TOTAL BILLETS TO BE DELETED IN OPERATINAL AND FLEET SUPPORT ACTIVITIES

Not Applicable

## II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

### INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC
NAVOSHENVTRACEN - Norfolk, VA - 91732

| DESIGN | PNEC/SNEC | PFYs | | | CFY 99 | | | FY 00 | | | FY 01 | | | FY 02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RATING | PMOS/SMOS | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| ACDU | | | | | | | | | | | | | | | | | | | |
| O-5 | 0862/ | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 230X | 1861 | | | | | | | | | | | | | | | | | | |
| O-4 | 0862/ | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 230X | 1861 | | | | | | | | | | | | | | | | | | |
| O-3 | 0862/ | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 230X | 1861 | | | | | | | | | | | | | | | | | | |
| E-6 to E-8 | 9502/ | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 |
| Various | 9595 | | | | | | | | | | | | | | | | | | |
| E-6 & E-7 | 9502/ | 0 | 1 | 0 | 0 | 4 | 0 | 0 | 4 | 00 | 4 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | |
| Various | 9571 | | | | | | | | | | | | | | | | | | |
| GS12/13 | 0018 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 7 |

TRAINING ACTIVITY, LOCATION, UIC
NAVOSHENVTRACEN – San Diego, CA - 39726

| DESIGN | PNEC/SNEC | PFYs | | | CFY 99 | | | FY 00 | | | FY 01 | | | FY 02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RATING | PMOS/SMOS | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| ACDU | | | | | | | | | | | | | | | | | | | |
| 0-3 | 0862/ | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 230X | 1861 | | | | | | | | | | | | | | | | | | |
| E-8 /SK | 9502/ | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| | 9595 | | | | | | | | | | | | | | | | | | |
| E-8/EM | 9502/ | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 3 | 0 0 | 3 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | |
| | 9571 | | | | | | | | | | | | | | | | | | |
| GS12/13 | 0018 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |

**ALLOCATION OF BILLETS (FY99)**

TRAINING ACTIVITY, LOCATION, UIC
NAVOSHENVTRACEN - Norfolk, VA - 91732

| USE | TRAINING PERSON | | | SUPPORT PERSONNEL | | RATE/ RANK | PNEC | SNEC | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | CIV | | | | |
| CO/XO/COMMAND SUPPORT | | | | 1 | | CDR | 0862 | 1861 | Commanding Officer |
| | | | | 1 | | LCDR | 0862 | 1861 | Executive Officer |
| | | | | | 6 | GS 5 to 13 | | | Department Heads, CISO. Scheduling, Command Admin |
| AFLOAT TRAINING | 1 | | | | | LT | 0862 | 1861 | Submarine Safety Officer Course HM Coordinator Course |
| | | 1 | | | | SKC | 9502 | 9595 | HMC&M Technician Course |
| | | 1 | | | | AK1 | 9502 | 9595 | HMC&M Technician Course |
| | | 1 | | | | EMCS | 9502 | 9595 | HMC&M Technician Course |
| | | 2 | | | | BMC | 9502 | 9571 | Safety Programs Afloat Course |
| | | 1 | | | | STS1 | 9502 | 9571 | Safety Programs Afloat Course |
| | | 1 | | | | DC1 | 9502 | 9571 | Safety Programs Afloat Course |
| | | | | | 3 | GS5/6 | | | Course Recordkeeping and Support |
| SHORE TRAINING | | | 6 | | | GS-12 | 0018 | | Course Oversight and Management |
| | | | 1 | | | GS-13 | 0018 | | Course Oversight and Management |
| | | | | | 1 | GS5/6 | | | Course Recordkeeping and Support |

PART II - BILLET AND PERSONNEL REQUIREMENTS

TRAINING ACTIVITY, LOCATION, UIC
NAVOSHENVTRACEN – San Diego, CA - 39726

| USE | TRAINING PERSON | | | SUPPORT PERSONNEL | | RATE/ RANK | PNEC | SNEC | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | OFF | ENL | CIV | OFF | CIV | | | | |
| AFLOAT TRAINING | 1 | | | | | LT | 0862 | 1861 | Submarine Safety Officer Course HM Coordinator Course |
| | | 2 | | | | SKC | 9502 | 9595 | HMC&M Technician Course |
| | | 2 | | | | BMC | 9502 | 9571 | Safety Programs Afloat Course |
| | | 1 | | | | AKC | 9502 | 9571 | Safety Programs Afloat Course |
| SHORE TRAINING | | | 1 | | | GS-12 | 0018 | | Course Oversight and Management |
| | | | | | 1 | GS5/6 | | | Course Recordkeeping and Support |

PART II - BILLET AND PERSONNEL REQUIREMENTS

TRAINING ACTIVITY, LOCATION, UIC
SURFACE WARFARE OFFICERS SCHOOL - Newport, RI - 63190

| DESIGN RATING | PNEC/SNEC PMOS/SMOS | PFYs OFF | PFYs ENL | CFY 99 OFF | CFY 99 ENL | FY 00 OFF | FY 00 ENL | FY 01 OFF | FY 01 ENL | FY 02 OFF | FY 02 ENL | FY03 OFF | FY03 ENL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACDU | | | | | | | | | | | | | |
| 0-4/O-3 | | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 |
| 110X | | | | | | | | | | | | | |
| 0-3 | 0862/ | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 2300 | 1861 | | | | | | | | | | | | |

**II.A.4 CHARGEABLE STUDENT BILLET REQUIREMENTS (1)**

| ACTIVITY/LOCATION UIC | PFYs OFF | PFYs ENL | CFY 99 OFF | CFY 99 ENL | FY 00 OFF | FY 00 ENL | FY 01 OFF | FY 01 ENL | FY 02 OFF | FY 02 ENL | FY 03 OFF | FY 03 ENL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SWOSCOLCOM Newport, RI 63190 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 |
| TOTALS: 13 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | | |

**NOTE:** (1) The Afloat Safety Officer Course was established at SWOSCOLCOM, Newport, RI on 15 October 1991. Other sites for the course are: San Diego, CA (SWOSCOLCOM PAC), Norfolk, VA, Charleston, SC, Mayport, FL, Pearl Harbor, HI, and Yokosuka, Japan. The course was planned for a throughput of 350 students per year and a class size of 35. Students are assigned to the course via PCS orders for the Newport classes and TAD orders for the exportable classes. This course is scheduled for the two weeks following the Department Head Course at SWOSCOLCOM for those students en route to Safety Officer afloat billets.

**II.A.5 ANNUAL INCREMENTAL AND CUMULATIVE BILLETS:**

**a. Officer-USN**

| DESIGNATOR | BILLET BASE | CFY99 +/- | CFY99 CUM | FY 00 +/- | FY 00 CUM | FY 01 +/- | FY 01 CUM | FY 02 +/- | FY 02 CUM | FY 03 +/- | FY 03 CUM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Operational Billets | | | | | | | | | | | |
| Various | ACDU | 0 | 385 | (3) | 382 | (6) | 376 | (2) | 374 | 0 | 374 |
| Fleet Support Billets | | | | | | | | | | | |
| 230X | ACDU | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 |
| Instructor and Support Staff Billets | | | | | | | | | | | |
| 230X/111X | ACDU | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 |
| Chargeable Student Billets | | | | | | | | | | | |
| Various | ACDU | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 |

**b. ENLISTED USN**

| DESIGNATOR | BILLET BASE | CFY99 +/- | CFY99 CUM | FY 00 +/- | FY 00 CUM | FY 01 +/- | FY 01 CUM | FY 02 +/- | FY 02 CUM | FY 03 +/- | FY 03 CUM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Operational Billets | | | | | | | | | | | |
| Various | ACDU | 0 | 2028 | (16) | 2012 | (32) | 1980 | (10) | 1970 | 0 | 1970 |
| Fleet Support Billets | ACDU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Instructor and Support Staff Billets | | | | | | | | | | | |
| 9502/9595/9571 | ACDU | 0 | 4 | 13 | 17 | 0 | 17 | 0 | 17 | 0 | 17 |
| Chargeable Student Billets | | | | | | | | | | | |
| | ACDU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**c. CIVILIAN**

| DESIGNATOR | BILLET BASE | CFY99 +/- | CFY99 CUM | FY 00 +/- | FY 00 CUM | FY 01 +/- | FY 01 CUM | FY 02 +/- | FY 02 CUM | FY 03 +/- | FY 03 CUM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Instructor Support Staff Billets | | 0 | 16 | 0 | 16 | 0 | 16 | 0 | 16 | 0 | 16 |

## II.B PERSONNEL REQUIREMENTS

### II.B.1 ANNUAL TRAINING INPUT REQUIREMNTS

SWOSCOLCOM Training

CIN, COURSE TITLE: A-4J-0020, Afloat Safety Officer
COURSE LENGTH: 10 days — SEA TOUR LENGTH: 3 yrs.
ATTRITION FACTOR: N/A — BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| SWOSCOL | NAVY | ACDU | 310 | 10 | 310 | 10 | 310 | 10 | 310 | 10 | 310 | 10 |

NAVSUPCORPSCOL Training

CIN, COURSE TITLE: A-8B-0017, Afloat Hazardous Material Coordinator
COURSE LENGTH: 8 hours — SEA TOUR LENGTH: 3 yrs.
ATTRITION FACTOR: N/A — BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAVSUPCORPSCOL | NAVY | ACDU | 340 | 0 | 340 | 0 | 341 | 0 | 339 | 0 | 326 | 0 |

NAVOSHENVTRACEN Training

CIN, COURSE TITLE: A-8B-0008, Afloat Hazardous Material Coordinator
COURSE LENGTH: 2 days — SEA TOUR LENGTH: 3 yrs.
ATTRITION FACTOR: N/A — BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NAVOSHETC | NAVY | ACDU | 100 | 80 | 35 | 19 | 35 | 19 | 35 | 19 | 35 | 19 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

CIN, COURSE TITLE: A-493-0065, Aviation Safety Specialist
COURSE LENGTH: 5 days
SEA TOUR LENGTH: 3 yrs.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 OFF | CFY99 ENL | FY00 OFF | FY00 ENL | FY01 OFF | FY01 ENL | FY02 OFF | FY02 ENL | FY03 OFF | FY03 ENL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | ACDU | 0 | 150 | 0 | 150 | 0 | 270 | 0 | 270 | 0 | 270 |

CIN, COURSE TITLE: A-493-XXXX, Consolidated Hazardous Material Reutilization and Inventory Management Program (CHRIMP)/Hazardous Material Inventory Control System (HICS)
COURSE LENGTH: 4 days
SEA TOUR LENGTH: 3 yrs.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 OFF | CFY99 ENL | FY00 OFF | FY00 ENL | FY01 OFF | FY01 ENL | FY02 OFF | FY02 ENL | FY03 OFF | FY03 ENL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | ACDU | 0 | 0 | 0 | 720 | 0 | 720 | 0 | 720 | 0 | 720 |

Note: FY00 New Start

CIN, COURSE TITLE: A-322-2600, Hazardous Material Control and Management (HMC&M) Technician
COURSE LENGTH: 5 days
SEA TOUR LENGTH: 18 mos.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 OFF | CFY99 ENL | FY00 OFF | FY00 ENL | FY01 OFF | FY01 ENL | FY02 OFF | FY02 ENL | FY03 OFF | FY03 ENL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | ACDU | 0 | 480 | 0 | 1646 | 0 | 1652 | 0 | 1655 | 0 | 1647 |

CIN, COURSE TITLE: A-493-0069, Asbestos Supervisor/Worker
COURSE LENGTH: 5 days
SEA TOUR LENGTH: 18 mos.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 OFF | CFY99 ENL | FY00 OFF | FY00 ENL | FY01 OFF | FY01 ENL | FY02 OFF | FY02 ENL | FY03 OFF | FY03 ENL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | ACDU | 0 | 120 | 0 | 120 | 0 | 107 | 0 | 107 | 0 | 107 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

CIN, COURSE TITLE: A-493-0070, Asbestos Supervisor/Worker Refresher
COURSE LENGTH: 1 day
SEA TOUR LENGTH: 18 mos.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF ENL | OFF ENL | OFF ENL | OFF ENL | OFF ENL |
| NAVOSHETC | NAVY | ACDU | 0 120 | 0 107 | 0 107 | 0 107 | 0 107 |

CIN, COURSE TITLE: A-493-0067, Laser System Safety Officer (Category II)
COURSE LENGTH: 2 days
SEA TOUR LENGTH: 3 yrs.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF ENL CIV | OFF ENL CIV | OFF ENL CIV | OFF ENL CIV | OFF ENL CIV |
| NAVOSHETC | NAVY | ACDU/CIV | 5 55 50 | 10 120 110 | 10 120 110 | 10 120 110 | 10 120 110 |

CIN, COURSE TITLE: A-4J-0082, Respiratory Protection Manager
COURSE LENGTH: 2 days
SEA TOUR LENGTH: 18 mos.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF ENL | OFF ENL | OFF ENL | OFF ENL | OFF ENL |
| NAVOSHETC | NAVY | ACDU | 60 270 | 32 100 | 32 100 | 32 100 | 28 100 |

CIN, COURSE TITLE: A-493-0072, Respiratory Protection Program Management
COURSE LENGTH: 5 days
SEA TOUR LENGTH: 18 mos.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF ENL CIV | OFF ENL CIV | OFF ENL CIV | OFF ENL CIV | OFF ENL CIV |
| NAVOSHETC | NAVY | ACDU/CIV | 24 12 139 | 24 12 189 | 24 12 189 | 24 12 189 | 24 12 189 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

CIN, COURSE TITLE: A-493-2099, Safety Programs Afloat
COURSE LENGTH: 5 days — SEA TOUR LENGTH: 18 mos.
ATTRITION FACTOR: N/A — BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF ENL | OFF ENL | OFF ENL | OFF ENL | OFF ENL |
| NAVOSHETC | NAVY | ACDU | 0 1674 | 0 3349 | 0 3355 | 0 3338 | 0 3316 |

CIN, COURSE TITLE: A-760-2166, Shipboard Asbestos Response
COURSE LENGTH: 2 days — SEA TOUR LENGTH: 24 mos.
ATTRITION FACTOR: N/A — BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF ENL | OFF ENL | OFF ENL | OFF ENL | OFF ENL |
| NAVOSHETC | NAVY | ACDU | 10 200 | 12 225 | 12 225 | 12 225 | 12 225 |

CIN, COURSE TITLE: F-4J-0020, Submarine Safety Officer
COURSE LENGTH: 4 days — SEA TOUR LENGTH: 18 mos.
ATTRITION FACTOR: N/A — BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF ENL | OFF ENL | OFF ENL | OFF ENL | OFF ENL |
| NAVOSHETC | NAVY | ACDU | 110 0 | 104 0 | 104 0 | 104 0 | 104 0 |

CIN, COURSE TITLE: A-493-0047, Ground Safety for Marines
COURSE LENGTH: 10 days — SEA TOUR LENGTH: 3 yrs.
ATTRITION FACTOR: N/A — BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF ENL | OFF ENL | OFF ENL | OFF ENL | OFF ENL |
| NAVOSHETC | MARINES | ACDU | 0 240 | 0 240 | 0 240 | 0 240 | 0 240 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

CIN, COURSE TITLE: A-493-0030, Confined Space Safety
COURSE LENGTH: 8 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 200 | 200 | 200 | 200 | 200 |

CIN, COURSE TITLE: A-493-0021, Construction Safety Standards
COURSE LENGTH: 10 days SEA TOUR LENGTH: 3 yrs.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| NAVOSHETC | NAVY | ACDU/CIV | 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 58 |

CIN, COURSE TITLE: A-493-0074, Crane Safety
COURSE LENGTH: 4 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 150 | 150 | 150 | 150 | 150 |

CIN, COURSE TITLE: A-493-0033, Electrical Standards
COURSE LENGTH: 4 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 180 | 180 | 180 | 180 | 180 |

CIN, COURSE TITLE: A-493-0085, Navy Ergonomics Program
COURSE LENGTH: 5 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 180 | 210 | 210 | 210 | 210 |

CIN, COURSE TITLE: A-493-0084, Fall Protection Systems
COURSE LENGTH: 5 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 0 | 60 | 60 | 60 | 60 |

CIN, COURSE TITLE: A-493-0075, Fire Protection and Life Safety
COURSE LENGTH: 4 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| NAVOSHETC | NAVY | CIV | 0 | 0 | 180 | 0 | 0 | 180 | 0 | 0 | 180 | 0 | 0 | 180 | 0 | 0 | 180 |
| NAVOSHETC | MARINES | ACDU | 3 | 52 | 5 | 3 | 52 | 5 | 3 | 52 | 5 | 3 | 52 | 5 | 3 | 52 | 5 |
| TOTAL | | | 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 |

CIN, COURSE TITLE: A-493-0061, General Industry Safety Standards
COURSE LENGTH: 5 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| NAVOSHETC | NAVY | CIV | 0 | 0 | 240 | 0 | 0 | 240 | 0 | 0 | 240 | 0 | 0 | 240 | 0 | 0 | 240 |
| NAVOSHETC | MARINES | ACDU | 1 | 14 | 15 | 1 | 14 | 15 | 1 | 14 | 15 | 1 | 14 | 15 | 1 | 14 | 15 |
| TOTAL | | | 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 |

CIN, COURSE TITLE: A-493-0031, Introduction to Hazardous Material (Ashore)

PART II - BILLET AND PERSONNEL REQUIREMENTS

COURSE LENGTH: 5 days
ATTRITION FACTOR: N/A
SEA TOUR LENGTH: N/A.
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| NAVOSHETC | NAVY | ACDU/CIV | 10 | 30 | 380 | 10 | 30 | 380 | 10 | 30 | 380 | 10 | 30 | 380 | 10 | 30 | 380 |
| NAVOSHETC | MARINES | ACDU | 1 | 24 | 5 | 1 | 24 | 5 | 1 | 24 | 5 | 1 | 24 | 5 | 1 | 24 | 5 |
| TOTAL | | | 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 |

CIN, COURSE TITLE: A-493-0035, Introduction to Industrial Hygiene for Safety Professionals
COURSE LENGTH: 4 days
ATTRITION FACTOR: N/A
SEA TOUR LENGTH: N/A.
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | CIV | CIV | CIV | CIV | CIV |
| NAVOSHETC | NAVY | CIV | 150 | 150 | 180 | 180 | 180 |

CIN, COURSE TITLE: A-493-0050, Introduction to Navy Occupational Safety and Health (Ashore)
COURSE LENGTH: 5 days
ATTRITION FACTOR: N/A
SEA TOUR LENGTH: N/A.
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | FY00 | FY01 | FY02 | FY03 |
|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | CIV | CIV | CIV | CIV | CIV |
| NAVOSHETC | NAVY | CIV | 330 | 420 | 420 | 420 | 420 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

CIN, COURSE TITLE: A-493-0038, Laser Systems Safety Officer (Category I)
COURSE LENGTH: 6 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| NAVOSHETC | NAVY | ACDU/CIV | 5 | 10 | 35 | 5 | 10 | 35 | 5 | 10 | 35 | 5 | 10 | 35 | 5 | 10 | 35 |
| NAVOSHETC | MARINES | ACDU | 1 | 14 | 15 | 1 | 14 | 15 | 1 | 14 | 15 | 1 | 14 | 15 | 1 | 14 | 15 |
| TOTAL | | | 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 |

CIN, COURSE TITLE: A-493-0073, Machinery and Machine Guarding Standards
COURSE LENGTH: 4 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| NAVOSHETC | NAVY | ACDU/CIV | 0 | 50 | 100 | 0 | 50 | 100 | 0 | 50 | 100 | 0 | 50 | 100 | 0 | 50 | 100 |
| NAVOSHETC | MARINES | ACDU | 0 | 20 | 10 | 0 | 20 | 10 | 0 | 20 | 10 | 0 | 20 | 10 | 0 | 20 | 10 |
| TOTAL | | | 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 |

CIN, COURSE TITLE: A-493-0078, Mishap Investigation and Prevention (Ashore)
COURSE LENGTH: 5 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| NAVOSHETC | NAVY | ACDU/CIV | 10 | 40 | 250 | 10 | 40 | 300 | 10 | 50 | 300 | 10 | 50 | 300 | 10 | 50 | 300 |
| NAVOSHETC | MARINES | ACDU | 10 | 100 | 100 | 10 | 100 | 100 | 10 | 100 | 100 | 10 | 100 | 100 | 10 | 100 | 100 |
| TOTAL | | | 20 | 140 | 350 | 20 | 140 | 400 | 20 | 150 | 400 | 20 | 150 | 400 | 20 | 150 | 400 |

PART II - BILLET AND PERSONNEL REQUIREMENTS

CIN, COURSE TITLE: A-493-0079, Mishap Recordkeeping Seminar
COURSE LENGTH: 1 day SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 168 | 420 | 420 | 420 | 420 |

CIN, COURSE TITLE: A-4J-0019, Occupational Safety and Health (OSH) Two Thousand (2000)
COURSE LENGTH: 5 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 210 | 210 | 210 | 210 | 210 |

CIN, COURSE TITLE: A-493-0043, Safety Appraisal
COURSE LENGTH: 4 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 120 | 180 | 180 | 180 | 180 |

CIN, COURSE TITLE: A-493-0063, Safety Training Methods
COURSE LENGTH: 5 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING ACTIVITY | SOURCE | ACDU/TAR SELRES | CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV |
|---|---|---|---|---|---|---|---|
| NAVOSHETC | NAVY | CIV | 150 | 150 | 150 | 150 | 150 |

BUMED Training

CIN, COURSE TITLE: B-322-2301, NAVOSH Programs Afloat
COURSE LENGTH: 1 day SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| NEHC/EPMU2 | NAVY | ACDU | 2 | 28 | 2 | 28 | 2 | 28 | 2 | 28 | 2 | 28 |

CIN, COURSE TITLE: B-322-2306, Industrial Hygiene Techniques/Workplace Monitor Training
COURSE LENGTH: 9 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| NEHC/EPMU6 | NAVY | ACDU/CIV | 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 |

CIN, COURSE TITLE: B-322-2333, Analysis of Airborne Samples
COURSE LENGTH: 5 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV |
| EPMU-2,5,6 | NAVY | ACDU/CIV | 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 |

CIN, COURSE TITLE: B-322-2334, Analysis of Bulk Asbestos Samples
COURSE LENGTH: 5 days SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| EPMU-2,5,6 | NAVY | ACDU | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |

CIN, COURSE TITLE: B-322-2320, Heat Stress Afloat

PART II - BILLET AND PERSONNEL REQUIREMENTS

COURSE LENGTH: ½day
SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| EPMU-2,6,7 | NAVY | ACDU | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 |

CIN, COURSE TITLE: B-322-2310, Hearing Conservation Afloat
COURSE LENGTH: ½ day
SEA TOUR LENGTH: N/A.
ATTRITION FACTOR: N/A
BACKOUT FACTOR: N/A

| TRAINING | | ACDU/TAR | CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACTIVITY | SOURCE | SELRES | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL |
| EPMU-2,6,7 | NAVY | ACDU | 1 | 10 | 1 | 10 | 1 | 10 | 1 | 10 | 1 | 10 |

# PART III - TRAINING REQUIREMENTS

## III.A TRAINING REQUIREMENTS

### III.A.1 INITIAL TRAINING REQUIREMENTS

Not Applicable

## III.A.2 FOLLOW-ON TRAINING

### III.A.2.a EXISTING COURSES

TRAINING ACTIVITY: SWOSCOLCOM
LOCATION/UIC: Newport, RI/63190

CIN/COURSE TITLE: A-4J-0020/Afloat Safety Officer

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 310 | 10 | 310 | 10 | 310 | 10 | 310 | 10 | 310 | 10 | ATIR |
| 310 | 10 | 310 | 10 | 310 | 10 | 310 | 10 | 310 | 10 | Output |
| 10.2 | 0.3 | 10.2 | 0.3 | 10.2 | 0.3 | 10.2 | 0.3 | 10.2 | 0.3 | AOB |
| 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | Chargeable |

TRAINING ACTIVITY: NAVSUPCORPSCOL
LOCATION/UIC: Athens, GA/62741

CIN/COURSE TITLE: A-8B-0017, Afloat Hazardous Material Coordinator Module

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 340 | 0 | 340 | 0 | 341 | 0 | 339 | 0 | 326 | 0 | ATIR |
| 340 | 0 | 340 | 0 | 341 | 0 | 339 | 0 | 326 | 0 | Output |
| 0.9 | 0.0 | 0.9 | 0.0 | 0.9 | 0.0 | 0.9 | 0.0 | 0.9 | 0.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-8B-0008, Afloat Hazardous Material Coordinator

SOURCE: NAVY

STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 100 | 80 | 35 | 19 | 35 | 19 | 35 | 19 | 35 | 19 | ATIR |
| 100 | 80 | 35 | 19 | 35 | 19 | 35 | 19 | 35 | 19 | Output |
| 0.5 | 0.4 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0065, Aviation Safety Specialist

SOURCE: NAVY

STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 150 | 0 | 150 | 0 | 270 | 0 | 270 | 0 | 270 | ATIR |
| 0 | 150 | 0 | 150 | 0 | 270 | 0 | 270 | 0 | 270 | Output |
| 0.0 | 2.1 | 0.0 | 2.1 | 0.0 | 3.7 | 0.0 | 3.7 | 0.0 | 3.7 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-322-2600, Hazardous Material Control and Management (HMC&M) Technician

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 480 | 0 | 1646 | 0 | 1652 | 0 | 1655 | 0 | 1647 | ATIR |
| 0 | 480 | 0 | 1646 | 0 | 1652 | 0 | 1655 | 0 | 1647 | Output |
| 0.0 | 6.6 | 0.0 | 22.5 | 0.0 | 22.6 | 0.0 | 22.7 | 0.0 | 22.6 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0069, Asbestos Supervisor/Worker

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 120 | 0 | 120 | 0 | 107 | 0 | 107 | 0 | 107 | ATIR |
| 0 | 120 | 0 | 120 | 0 | 107 | 0 | 107 | 0 | 107 | Output |
| 0.0 | 1.6 | 0.0 | 1.6 | 0.0 | 1.5 | 0.0 | 1.5 | 0.0 | 1.5 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0070, Asbestos Supervisor/Worker Refresher

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 120 | 0 | 107 | 0 | 107 | 0 | 107 | 0 | 107 | ATIR |
| 0 | 120 | 0 | 107 | 0 | 107 | 0 | 107 | 0 | 107 | Output |
| 0.0 | 0.3 | 0.0 | 0.3 | 0.0 | 0.3 | 0.0 | 0.3 | 0.0 | 0.3 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0067, Laser System Safety Officer (Category II)

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 5 | 55 | 50 | 10 | 120 | 110 | 10 | 120 | 110 | 10 | 120 | 110 | 10 | 120 | 110 | ATIR |
| 5 | 55 | 50 | 10 | 120 | 110 | 10 | 120 | 110 | 10 | 120 | 110 | 10 | 120 | 110 | Output |
| 0.0 | 0.3 | 0.3 | 0.1 | 0.7 | 0.6 | 0.1 | 0.7 | 0.6 | 0.1 | 0.7 | 0.6 | 0.1 | 0.7 | 0.6 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-4J-0082, Respiratory Protection Manager

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 60 | 270 | 32 | 100 | 32 | 100 | 32 | 100 | 28 | 100 | ATIR |
| 60 | 270 | 32 | 100 | 32 | 100 | 32 | 100 | 28 | 100 | Output |
| 0.3 | 1.5 | 0.2 | 0.5 | 0.2 | 0.5 | 0.2 | 0.5 | 0.2 | 0.5 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0072, Respiratory Protection Program Management

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 24 | 12 | 139 | 24 | 12 | 189 | 24 | 12 | 189 | 24 | 12 | 189 | 24 | 12 | 189 | ATIR |
| 24 | 12 | 139 | 24 | 12 | 189 | 24 | 12 | 189 | 24 | 12 | 189 | 24 | 12 | 189 | Output |
| 0.3 | 0.2 | 1.9 | 0.3 | 0.2 | 2.6 | 0.3 | 0.2 | 2.6 | 0.3 | 0.2 | 2.6 | 0.3 | 0.2 | 2.6 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-2099, Safety Programs Afloat

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 1674 | 0 | 3349 | 0 | 3355 | 0 | 3338 | 0 | 3316 | ATIR |
| 0 | 1674 | 0 | 3349 | 0 | 3355 | 0 | 3338 | 0 | 3316 | Output |
| 0.0 | 22.9 | 0.0 | 45.9 | 0.0 | 45.9 | 0.0 | 45.7 | 0.0 | 45.4 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-760-2166, Shipboard Asbestos Response

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 10 | 200 | 12 | 225 | 12 | 225 | 12 | 225 | 12 | 225 | ATIR |
| 10 | 200 | 12 | 225 | 12 | 225 | 12 | 225 | 12 | 225 | Output |
| 0.1 | 1.1 | 0.1 | 1.2 | 0.1 | 1.2 | 0.1 | 1.2 | 0.1 | 1.2 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: F-4J-0020, Submarine Safety Officer

SOURCE: NAVY

STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 110 | 0 | 104 | 0 | 104 | 0 | 104 | 0 | 104 | 0 | ATIR |
| 110 | 0 | 104 | 0 | 104 | 0 | 104 | 0 | 104 | 0 | Output |
| 1.2 | 0.0 | 1.1 | 0.0 | 1.1 | 0.0 | 1.1 | 0.0 | 1.1 | 0.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0047, Ground Safety for Marines

SOURCE: MARINES

STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 240 | 0 | 240 | 0 | 240 | 0 | 240 | 0 | 240 | ATIR |
| 0 | 240 | 0 | 240 | 0 | 240 | 0 | 240 | 0 | 240 | Output |
| 0.0 | 7.9 | 0.0 | 7.9 | 0.0 | 7.9 | 0.0 | 7.9 | 0.0 | 7.9 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0030, Confined Space Safety

SOURCE: NAVY

STUDENT CATEGORY: CIV

| CFY99 | FY00 | FY01 | FY02 | FY03 | |
|---|---|---|---|---|---|
| CIV | CIV | CIV | CIV | CIV | |
| 200 | 200 | 200 | 200 | 200 | ATIR |
| 200 | 200 | 200 | 200 | 200 | Output |
| 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0021, Construction Safety Standards

SOURCE: NAVY

STUDENT CATEGORY: ACDU/CIV

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 58 | ATIR |
| 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 48 | 24 | 128 | 58 | Output |
| 0.8 | 4.2 | 1.6 | 0.8 | 4.2 | 1.6 | 0.8 | 4.2 | 1.6 | 0.8 | 4.2 | 1.6 | 0.8 | 4.2 | 1.6 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0074, Crane Safety

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 150 | 150 | 150 | 150 | 150 | ATIR |
| 150 | 150 | 150 | 150 | 150 | Output |
| 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0033, Electrical Standards

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 180 | 180 | 180 | 180 | 180 | ATIR |
| 180 | 180 | 180 | 180 | 180 | Output |
| 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0085, Navy Ergonomics Program

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 180 | 210 | 210 | 210 | 210 | ATIR |
| 180 | 210 | 210 | 210 | 210 | Output |
| 2.5 | 2.9 | 2.9 | 2.9 | 2.9 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0084, Fall Protection Systems

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 0 | 60 | 60 | 60 | 60 | ATIR |
| 0 | 60 | 60 | 60 | 60 | Output |
| 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0075, Fire Protection and Life Safety

SOURCE: NAVY/MARINES STUDENT CATEGORY: CIV/ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 | ATIR |
| 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 | 3 | 52 | 185 | Output |
| 0.0 | 0.6 | 2.0 | 0.0 | 0.6 | 2.0 | 0.0 | 0.6 | 2.0 | 0.0 | 0.6 | 2.0 | 0.0 | 0.6 | 2.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0061, General Industry Safety Standards

SOURCE: NAVY/MARINES STUDENT CATEGORY: CIV/ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 | ATIR |
| 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 | 1 | 14 | 255 | Output |
| 0.0 | 0.2 | 3.5 | 0.0 | 0.2 | 3.5 | 0.0 | 0.2 | 3.5 | 0.0 | 0.2 | 3.5 | 0.0 | 0.2 | 3.5 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0031, Introduction to Hazardous Material (Ashore)

SOURCE: NAVY/MARINES

STUDENT CATEGORY: CIV/ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 | ATIR |
| 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 | 11 | 54 | 385 | Output |
| 0.2 | 0.7 | 5.3 | 0.2 | 0.7 | 5.3 | 0.2 | 0.7 | 5.3 | 0.2 | 0.7 | 5.3 | 0.2 | 0.7 | 5.3 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0035, Introduction to Industrial Hygiene for Safety Professionals

SOURCE: NAVY

STUDENT CATEGORY: CIV

| CFY99 | FY00 | FY01 | FY02 | FY03 | |
|---|---|---|---|---|---|
| CIV | CIV | CIV | CIV | CIV | |
| 150 | 150 | 180 | 180 | 180 | ATIR |
| 150 | 150 | 180 | 180 | 180 | Output |
| 1.6 | 1.6 | 2.0 | 2.0 | 2.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0050, Introduction to Navy Occupational Safety and Health (Ashore)

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 330 | 420 | 420 | 420 | 420 | ATIR |
| 330 | 420 | 420 | 420 | 420 | Output |
| 4.5 | 5.8 | 5.8 | 5.8 | 5.8 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0038, Laser Systems Safety Officer (Category I)

SOURCE: NAVY/MARINES STUDENT CATEGORY: CIV/ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 | ATIR |
| 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 | 6 | 24 | 50 | Output |
| 0.1 | 0.5 | 1.1 | 0.1 | 0.5 | 1.1 | 0.1 | 0.5 | 1.1 | 0.1 | 0.5 | 1.1 | 0.1 | 0.5 | 1.1 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0073, Machinery and Machine Guarding Standards

SOURCE: NAVY/MARINES STUDENT CATEGORY: CIV/ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 | ATIR |
| 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 | 0 | 70 | 110 | Output |
| 0.0 | 0.8 | 1.2 | 0.0 | 0.8 | 1.2 | 0.0 | 0.8 | 1.2 | 0.0 | 0.8 | 1.2 | 0.0 | 0.8 | 1.2 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0078, Mishap Investigation and Prevention (Ashore)

SOURCE: NAVY/MARINES STUDENT CATEGORY: CIV/ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 20 | 140 | 350 | 20 | 140 | 400 | 20 | 150 | 400 | 20 | 150 | 400 | 20 | 150 | 400 | ATIR |
| 20 | 140 | 350 | 20 | 140 | 400 | 20 | 150 | 400 | 20 | 150 | 400 | 20 | 150 | 400 | Output |
| 0.3 | 1.9 | 4.8 | 0.3 | 1.9 | 5.5 | 0.3 | 2.0 | 5.5 | 0.3 | 2.0 | 5.5 | 0.3 | 2.0 | 5.5 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0079, Mishap Recordkeeping Seminar

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 168 | 420 | 420 | 420 | 420 | ATIR |
| 168 | 420 | 420 | 420 | 420 | Output |
| 0.5 | 1.2 | 1.2 | 1.2 | 1.2 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-4J-0019, Occupational Safety and Health (OSH) Two Thousand (2000)

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 210 | 210 | 210 | 210 | 210 | ATIR |
| 210 | 210 | 210 | 210 | 210 | Output |
| 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0043, Safety Appraisal

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 120 | 180 | 180 | 180 | 180 | ATIR |
| 120 | 180 | 180 | 180 | 180 | Output |
| 1.3 | 2.0 | 2.0 | 2.0 | 2.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0063, Safety Training Methods

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 150 | 150 | 150 | 150 | 150 | ATIR |
| 150 | 150 | 150 | 150 | 150 | Output |
| 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVENPVNTMEDU-2
LOCATION/UIC: Norfolk, VA /63117

CIN/COURSE TITLE: B-322-2301, NAVOSH Programs Afloat

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 2 | 28 | 2 | 28 | 2 | 28 | 2 | 28 | 2 | 28 | ATIR |
| 2 | 28 | 2 | 28 | 2 | 28 | 2 | 28 | 2 | 28 | Output |
| 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVENVIRHLTHCEN - NAVENPVNTMEDU-6
LOCATION/UIC: Norfolk, VA – Pearl Harbor, HI/68546 – 0545A

CIN/COURSE TITLE: B-322-2306, Industrial Hygiene Techniques/Workplace Monitoring Training

SOURCE: NAVY STUDENT CATEGORY: ACDU/CIV

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 | ATIR |
| 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 | 0 | 75 | 25 | Output |
| 0.0 | 2.3 | 0.8 | 0.0 | 2.3 | 0.8 | 0.0 | 2.3 | 0.8 | 0.0 | 2.3 | 0.8 | 0.0 | 2.3 | 0.8 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVENPVNTMEDU-2 - NAVENPVNTMEDU-5 - NAVENPVNTMEDU-6
LOCATION/UIC: Norfolk, VA – San Diego, CA – Pearl Harbor, HI/63117 – 0546A – 0545A

CIN/COURSE TITLE: B-322-2333, Analysis of Airborne Samples

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | | FY00 | | | FY01 | | | FY02 | | | FY03 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | OFF | ENL | CIV | |
| 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 | ATIR |
| 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 | 0 | 25 | 2 | Output |
| 0.0 | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.3 | 0.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVENPVNTMEDU-2 - NAVENPVNTMEDU-5 - NAVENPVNTMEDU-6
LOCATION/UIC: Norfolk, VA – San Diego, CA – Pearl Harbor, HI/63117 – 0546A – 0545A

CIN/COURSE TITLE: B-322-2334, Analysis of Bulk Asbestos Samples

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | ATIR |
| 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | Output |
| 0.0 | 0.2 | 0.0 | 0.2 | 0.0 | 0.2 | 0.0 | 0.2 | 0.0 | 0.2 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVENPVNTMEDU-2 - NAVENPVNTMEDU-6 - NAVENPVNTMEDU-7
LOCATION/UIC: Norfolk, VA – San Diego, CA – Sigonella, IT/63117 – 0546A – 62997

CIN/COURSE TITLE: B-322-2320, Heat Stress Afloat

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | ATIR |
| 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | Output |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVENPVNTMEDU-2 - NAVENPVNTMEDU-6 - NAVENPVNTMEDU-7
LOCATION/UIC: Norfolk, VA – Pearl Harbor, HI – Sigonella, IT/63117 – 0545A - 62997

CIN/COURSE TITLE: B-322-2310, Hearing Conservation Afloat

SOURCE: NAVY STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 1 | 10 | 1 | 10 | 1 | 10 | 1 | 10 | 1 | 10 | ATIR |
| 1 | 10 | 1 | 10 | 1 | 10 | 1 | 10 | 1 | 10 | Output |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

**III.A.2.b. PLANNED COURSES**

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-XXXX, Consolidated Hazardous Material Reutilization and Inventory Management Program (CHRIMP)/Hazardous Material Inventory Control System

SOURCE: NAVY

STUDENT CATEGORY: ACDU

| CFY99 | | FY00 | | FY01 | | FY02 | | FY03 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | OFF | ENL | |
| 0 | 720 | 0 | 720 | 0 | 720 | 0 | 720 | 0 | 720 | ATIR |
| 0 | 720 | 0 | 720 | 0 | 720 | 0 | 720 | 0 | 720 | Output |
| 0.0 | 7.9 | 0.0 | 7.9 | 0.0 | 7.9 | 0.0 | 7.9 | 0.0 | 7.9 | AOB |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0014, Asbestos Inspector

SOURCE: NAVY

STUDENT CATEGORY: CIV

| CFY99 | FY00 | FY01 | FY02 | FY03 | |
|---|---|---|---|---|---|
| CIV | CIV | CIV | CIV | CIV | |
| 0 | 150 | 150 | 150 | 150 | ATIR |
| 0 | 150 | 150 | 150 | 150 | Output |
| 0.0 | 1.2 | 1.2 | 1.2 | 1.2 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0015, Asbestos Inspector Refresher

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 0 | 60 | 120 | 120 | 120 | ATIR |
| 0 | 60 | 120 | 120 | 120 | Output |
| 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0019, Asbestos Management Planner

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 0 | 150 | 150 | 150 | 150 | ATIR |
| 0 | 150 | 150 | 150 | 150 | Output |
| 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0020, Asbestos Management Planner (Refresher)

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 0 | 60 | 150 | 150 | 150 | ATIR |
| 0 | 60 | 150 | 150 | 150 | Output |
| 0.0 | 0.2 | 0.4 | 0.4 | 0.4 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0086, Asbestos Project Designer

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 0 | 90 | 90 | 90 | 90 | ATIR |
| 0 | 90 | 90 | 90 | 90 | Output |
| 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0087, Asbestos Project Designer (Refresher)

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 0 | 60 | 90 | 90 | 90 | ATIR |
| 0 | 60 | 90 | 90 | 90 | Output |
| 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0017, Asbestos Project Monitor

SOURCE: NAVY STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 0 | 120 | 120 | 120 | 120 | ATIR |
| 0 | 120 | 120 | 120 | 120 | Output |
| 0.0 | 1.6 | 1.6 | 1.6 | 1.6 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

PART III - TRAINING REQUIREMENTS

TRAINING ACTIVITY: NAVOSHENVTRACEN
LOCATION/UIC: Norfolk, VA - San Diego CA/91732 - 39726

CIN/COURSE TITLE: A-493-0018, Asbestos Project Monitor (Refresher)

SOURCE: NAVY

STUDENT CATEGORY: CIV

| CFY99 CIV | FY00 CIV | FY01 CIV | FY02 CIV | FY03 CIV | |
|---|---|---|---|---|---|
| 0 | 60 | 120 | 120 | 120 | ATIR |
| 0 | 60 | 120 | 120 | 120 | Output |
| 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | AOB |
| 0 | 0 | 0 | 0 | 0 | Chargeable |

**III.A.2.c. UNIQUE COURSES**

Not applicable

**III.A.3. EXISTING TRAINING PHASED OUT**

Not applicable

**III.B. TOTAL SHIP TRAINING COURSE SUMMARY**

Not applicable

**III.C. INACTIVE DUTY TRAINING TRAVEL (IDTT) AND ANNUAL TRAINING (AT)**

Not applicable

# PART IV - TRAINING LOGISTIC SUPPORT REQUIREMENTS

## IV.A TRAINING HARDWARE

### IV.A.1 TTE/GPTE/SPTE/ST/GPETE/SPETE

Not applicable

### IV.A.2 TRAINING DEVICES

Not applicable

# PART IV - TRAINING LOGISTIC SUPPORT REQUIREMENTS

## IV.B COURSEWARE REQUIREMENTS

### IV.B.1 TRAINING SERVICES

There are no requirements for training services.

### IV.B.2 CURRICULA MATERIALS AND TRAINING AIDS

| TYPES OF MATERIAL OR AID | TITLE | QTY REQD | DATE REQD | STATUS |
|---|---|---|---|---|
| Videotape On Board Training | NAVOSH, It's Protecting You (Afloat) (Revision) | 1 per ship | 2/00 | First Draft Script in Development |
| Videotape On Board Training | NAVOSH Shore Orientation | 1 per activity | 1/00 | Script Developed. Location shooting in progress. |
| Videotape On Board Training | Now Hear This, Hearing Conservation | 1 per ship | 12/99 | Completed location shooting. |
| Videotape On Board Training | PPE….Protection Proves Essential | 1 per ship | 4/00 | Completed location shooting. |
| Videotape On Board Training | Shipboard Asbestos Program (Afloat) | 1 per ship | 6/00 | Obtaining PIIN. |
| Videotape On Board Training | Working Aloft and Over the Side - Safety First | 1 per activity | 5/00 | First draft script developed. |

## PART IV - TRAINING LOGISTIC SUPPORT REQUIREMENTS

**IV.B.3 TECHNICAL MANUALS**

**TRAINING ACTIVITY: NAVOSHENVTRACEN**

**LOCATION, UIC:** Norfolk VA - San Diego, CA, 91732 - 39726

**CIN, COURSE TITLE: A-493-0063, Safety Training Methods**

| TECHNICAL MANUAL TITLE , NUMBER | MEDIUM | QTY REQD | DATE REQD | STATUS |
|---|---|---|---|---|
| NAVOSH Training Guide for Shore Activities | Hard Copy | 50 each | 2/00 | Working |

**IV.C FACILITY REQUIREMENTS**

There are no new facility support requirements for the NAVOSH Program

## NAVOSH NTP

## PART V - MAJOR MILESTONES

| COG CODE | MPT MILESTONES | DATE | REMARKS |
|---|---|---|---|
| CNO (N45) | Conduct Afloat Safety Training Review | 2/98 | Complete |
| CNO (N45) | Promulgate Action Items from Afloat Safety Training Review | 8/98 | Complete |
| CNO (N45, N86, N87, N88) | Provide Resources for Approved Afloat Training for FYs99/00 | 9/98 | N45/N87 Complete |
| CNET | Promulgate Draft NTSP to ALCON for Review | 9/98 | Complete |
| CNO (N45) | Chair NTSPC and issue minutes and action items that result | 2/99 | Complete |
| CNO (N45) | Approve and Promulgate NTSP | 9/99 | |
| CNO (N45, N86, N87, N88) | Provide Resources for Approved Afloat Training for POM-02 | 3/00 | |
| CNO (N4/N8) | Program Manpower and Training Resource Requirement | POM 02 | |
| CNO (N45) | Review/Revise NTSP | 9/01 | |

## PART VI. DECISION ITEMS/ACTION REQUIRED

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 1. Review the adequacy of NAVOSH training within the accession training program and make necessary revisions. | CNET | | |
| a. Investigate incorporating NAVOSH training into the U.S. Naval Academy and Officer Candidate School training programs. | CNET/N09B | Mar 00 | Review of NROTC training completed in FY92. OCS curriculum review accomplished in FY98. NAVOSH material incorporated. Review Naval Academy effort in FY98 and make decision. N45 postponed this effort until it determined how well plebe ergonomic effort received. Ergonomics training for plebes is in-place. Awaiting confirmation on how well midshipman training is faring. Desire both training sessions to be well in-place in curriculum before pressing ahead with additional (NAVOSH) training. Researching ergonomics and OSH training at Air Force and Military Academy to support advanced Naval Academy training.. |
| 2. Deliver annual report on NAVOSH-related training manuals (including rate-training manuals)/ correspondence courses reviewed to T&E QMB. Note deficiencies and corrective action (if any) taken. | CNET/ NAVOSHETC | Recurring report | CNET to work with NETPDTC to determine how review is being accomplished and ensure NAVOSHETC is the OSH review authority. NETPDTC has changed its review process so that NAVOSHETC will receive all manual changes electronically prior to issue. |
| 3. Conduct a review of all PQS as changes are made to ensure they properly address occupational safety and health. Provide an annual report on progress to the NAVOSH Training T&E QMB. | NAVOSHETC | Recurring Report | |
| 4. Determine the need and approach (if needed, how such training should be conducted) for man-made vitreous fiber (MMVF) removal/ripout. | Air/Shore/ Surface/ Submarine Working Groups | Following NAS review | Upon completion of the BUMED/National Academy of Sciences (NAS) Toxicology Committee review. |
| a. Revalidate the MMVF health hazards during removal/ripout. | BUMED | FY2000 | Delivered updated report to NAS on 29 Oct 97. Chair of review committee named, although all members not chosen. Requested updated Plan of Action from NAS. Expect NAS review to take 12 to 18 months. |
| 5. Conduct a technical audit of shore NAVOSH courses on a triennial basis using outside auditors. Report results of audits to T&E QMB. Shore Working Group each meeting. Also conduct internal audits as required by NAVEDTRA 135. | CNET/Shore Working Group | Recurring report | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 6. Review "Gas Free Engineer Course" (A-495-0051) as part of NAVOSH training review effort to ensure compliance with the NAVOSH Program Manual for Forces Afloat, particularly in the area of respiratory protection. | CNO (N869D4) | | Major revision to NSTM 074 to be issued in mid 1996. |
| a. Audit and determine the extent of changes required to course. Make recommendations to T&E QMB . | Surface Working Group/NAVSEA | FY99 | Surface Working Group is awaiting NAVSEA report. Will review following issue of 1996 revision to NSTM 074 (allowing course to incorporate changes). NAVSEA issued new Chapter in Jan 99 CD-ROM update. NAVSEA audited course at SWOS about 1 Jun 99 and will audit at FTC (date to be determined). |
| b. Audit the Submarine Gas Free Engineering Course for independent duty Hospital Corpsmen to ensure that it agrees with revised requirements. | Submarine Working Group/NAVSEA | FY99 | NAVSEA issued new Chapter in Jan 99 CD-ROM update. No firm date established for audit. |
| 7. Review available training material and either purchase or develop a suitable training package for the training of qualified persons (QPs) and other confined space personnel (i.e., QPs, confined space attendants, supervisors, entry personnel, emergency/rescue personnel). Provide the training package to all appropriate shore activities. | Shore Working Group/CNET | Mar 00 | CNO will invoke the OSHA standards in developing OPNAVINST 5100.23E. NAVSAFECEN prepared outlines for confined space entry lesson guide for worker, entry supervisor, attendants, monitors, and rescue workers. Delivered to NAVOSHENVTRACEN for development of lesson guides. Shore Working Group will expand earlier submitted topic outlines to lesson guides. |
| a. Review activity training packages and select best training packages for shore activities to train personnel. Review commercial confined space training programs and determine which programs most closely meet Navy requirements. Develop a recommended training package for personnel and submit to T&E QMB for approval. | Shore Working Group | Mar 00 | Shore Working Group audio/visual committee to review commercial tapes and recommend one for Navy use. Have identified videos that with minor changes will be acceptable for Navy use with Chapter 27 of OPNAVINST 5100.23E reflecting 29 CFR 1910.146. The Shore Working Group awaiting release of NAVINSGEN Confined Space report before recommending commercially available videotapes. |
| b. Review working group recommendation and accept or reject. If accept determine the method of delivery and distribution. | T&E QMB | Mar 00 | |
| c. Purchase and distribute training packages per T&E QMB guidance. | CNET | Jul 00 | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 8. Participate in all Training Requirements Reviews (TRRs). Brief T&E QMB on the results of this process. | NAVOSHETC | Recurring report | CNET indicated that unable to participate in "all" TRRs due to lack of resources. T&E QMB agreed that NAVOSHETC should perform all reviews, but if resources limit, they should conduct targeted reviews. NAVOSHETC provided priority list of TRRs to T&E QMB . |
| 9. Develop/manage NAVOSH Professional Development Conference with appropriate contractor support. | NAVOSHETC/Shore Working Group | | |
| a. Accomplish the FY00 Conference | NAVOSHETC/All Working Groups | Feb 00 | |
| 10. Audit the HM Coordinator training at SWOSCOLCOM and Supply Corps Officer and Basic Training. Report results of audit to T&E QMB . (NTRR action item) | NAVOSHETC | Complete | Supply Corps school audited Sep 95. SWOSCOLCOM audited in Jul 95. |
| a. Determine the best means of providing Supply Officers suitable HM training to accomplish HM Coordinator duties. | T&E QMB | Nov 99<br>(Sep 98)<br>(Feb 98) | At Sep 97 and Nov 97 HMAP Steering Committee meetings, attendees (including NAVSURFLANT representative) indicated that training received by Supply Officers at Supply Corps School was unsuitable and given at the wrong time in training cycle. Supply Officers were arriving aboard ship with limited HM knowledge. T&E QMB to make determination following report of course audit. The T&E QMB discussed alternatives for addressing this action, including requiring of Supply Officers to attend HM Coordinator course. |
| b. Audit the HMC&M training at the Supply Corps School and report results and recommendations to T&E QMB . | NAVSUP/ NAVOSHETC | Nov 99<br>(Sep 98) | NAVOSHENVTRACEN reported that they cannot get NAVSUPSYSCOM to participate in the training audit. COMNAVAIRLANT agreed to provide assistance in auditing. |
| 11. Determine whether a NAVOSH orientation videotape should be developed which would assist shore activities in their training efforts. | Shore Working Group | Complete | The T&E QMB discussed and agreed that such a tape would be beneficial. |
| a. Develop videotape from Shore Working Group ideas. | CNO (N454) | Feb 00 | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 12. Determine the type of reproductive hazards training for occupational safety and health professionals and appropriate physicians and make a recommendation to the T&E QMB . | BUMED | Complete | Navy-approved reproductive hazard board met Mar 97. Chapter was completed and delivered to Quality Council for inclusion in OPNAVINST 5100.23E. This chapter states that these persons should receive training on legal considerations, risk communications, and technical issues and that training provided in Navy-sponsored workshops and CNET-approved courses are sufficient to satisfy this requirement. BUMED to yet determine the training requirements for OSH professionals. Board is reconvened Mar 98. Action document provided to board identifying needs. BUMED to report results at Sep 98 T&E QMB meeting. |
| a. Insert reproductive hazards information in identified training. | NAVOSHETC | Nov 99 (Sep 98) | Chapter will possibly be developed for OPNAVINST 5100.19C on reproductive hazards aboard ship. More likely will include in HMC&M and noise control chapters. This action will be accomplished after the new material is developed and the change issued. |
| b. Develop a shipboard reproductive hazards awareness videotape. | NAVOSHETC/CNO (N45) | Mar 00 | This will be started following development of policy on shipboard reproductive hazards for OPNAVINST 5100.19C. |
| 13. Review the feasibility of removing safety and health guidance from the NAVAIR Dash35 manual and having the document refer to OPNAVINST 5100.23D for this data. | CNAL/CNAP CNO (N454)/ NAVAIR | Complete | This publication provides information that increases the hazards to Navy personnel. Aviation Type Commanders to address issue formally to CNO via Fleet CINCs. CNO (N454) to request that manual be canceled upon receipt of Type Commanders input. |
| a. Look at the possibility of rewriting the Gas Free Engineering section of the NAVAIR Dash35 manual. | NAVAIR | Mar 00 | NAVAIR to commence revising document commencing Mar 99. |
| 14. Conduct a review of existing on board training (e.g., movies, videotapes, computer-aided training, etc.) and make a determination on retention, deletion, or modification. | NAVOSHETC | Recurring report | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 15. Determine the necessity for and feasibility of assigning industrial hygiene officers as Assistant Safety Officers aboard large deck amphibious ships to support the amphibious readiness group intermediate maintenance activity (ARGIMA) concept. | CINCLANTFLT/ CNO (N45) | Nov 99 | Working to use TAD assignment from EPMU TWO aboard WASP for pilot effort. LT Erickson deployed with USS WASP on 28 Feb 98. BUMED working on detailing issues with BUPERS. Results of pilot study appear positive. COMNAVSURFLANT/ COMNAVSURFPAC have submitted letters on study. These requested initial assignment of IHOs to PHIBGRU TWO and THREE staffs with phased-in assignment to the Fleet Surgical Team based on IHO inventory. No billet compensation available. Letters received in CINCLANTFLT in Feb 99. |
| 16. Develop a revised table of contents for the NAVOSH Training Guide for Shore Activities. Identify any current guides that need revision or expansion to adequately address the training topics. Use the appendices in Chapters 6 and 7 for this effort. Present this information to the T&E QMB . | Shore Working Group | Complete | Shore Working Group added five topics: Mishap Investigation, Ergonomics, Blood borne Pathogens, Weight Handling Equipment, and Asbestos. |
| a. Review the recommended additions and revisions to Shore NAVOSH Training Guide and determine how new/revised material will be developed. | T&E QMB | Nov 99 | Reported to T&E QMB . Personnel have been assigned to write chapters. Five new lesson guides are under development. Topics Guide outlines have been delivered to NAVOSHETC. Shore Working Group accepts action to fill out the guides. The intent is to issue a revised document in1999. |
| 17. Revise and update the Afloat and Ashore Mishap Investigation Handbook to make a friendlier document and improve upon the quality of afloat mishap investigations. | NAVSAFECEN | Nov 99 (Feb 98) | NAVSAFECEN reported they have upgraded the document to incorporate new ordnance reporting requirements. Afloat portion of the document is complete. NAVSAFECEN reports that the shore mishap reporting manual is being held up by legal issues. These may impact on the afloat manual. Once the revised mishap reporting DoDI is issued, NAVSAFECEN will upgrade shore handbook and revise afloat handbook appropriately. NAVSAFECEN will make a friendlier document. |
| 18. Determine the need and the process for making the SNEC 9595 perishable. | CINCLANTFLT/ CINCPACFLT | Complete | CINCLANTFLT representative advised T&E QMB that it is impractical to make this SNEC perishable. Suggested that consideration be given to limiting the rate of the SNEC to E-5 and E-6. COMNAVAIRPAC indicated that they needed E-7 SNEC personnel on aircraft carriers. |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| a. Look at options for reducing the throughput requirements for this course and provide recommendation to CNO (N45) and T&E QMB . | NAVOSHETC | Mar 00 | Received increased throughput requirements from PERSCOM/CNET (pre-98 NTRR). Receiving an additional submarine-qualified instructor (STS1) as a result of Afloat Safety Training Review. |
| 19. Following the audit of the Construction Safety Standards course, conduct a Training Requirements Review to determine if the course is meeting the needs of the construction battalions. | NAVOSHETC/ CINCLANTFLT/ CINCPACFLT | Mar 00 | Representatives from CBC Port Hueneme and Gulfport should participate. Training Requirements Review should also look at the SNEC and determine modifications, are appropriate. The course audited by CINCLANTFLT representative on 24 Aug-4 Sep. CNET to coordinate Training Requirements Review with CNO (N454)/NAVFAC. Contract being reviewed for FY00. CINCLANTFLT recommended changes will be incorporated assuming contracting officer approval. CBs desire greater participation in course. |
| 20. Develop a POM02 issue paper for a new start for HICS/CHRIMP Training course. | TYCOMs | Sep 99<br>Mar 99 | Action item from the Feb 98 Afloat Safety Training Review. Requirement for training in revised Chapter B3. However, need for funding needs to be addressed to resource sponsor. Time for submission of PR01 issue papers is past. Next window of opportunity is POM02. |
| 21. Issue guidance to subordinate commands on the suggested rotation of afloat positions requiring NAVOSH training. | TYCOMs | Sep 99<br>(Mar 99) | Action item from the Feb 98 Afloat Safety Training Review. Surface Working Group reports that recommendation developed on Division Safety Petty Officer rotation and training. Guidance to be issued via message and will appear in Joint instruction. |
| 22. Perform a job task analysis of the Divisional Safety Petty Officer position. Compare this analysis with the content of the Safety Programs Afloat course to ensure that it teaches the proper material. | NAVOSHETC | Complete (Mar 99) | Results of COMNAVSURFPAC R051620Z "Safety Petty Officer Survey" provided to NAVOSHETC and NAVSAFECEN. Surface Ship Working Group recommends that further analysis/action should be by CNET. NAVOSHETC will work with Type Commanders and ship-input during a major (zero-based) review of Safety Programs Afloat Curriculum. |
| a. Perform a zero-based review of the Safety Programs Afloat course and modify the course appropriately. | NAVOSHETC | Mar 00 | |
| b. Identify potential integrated courseware (ICW) modules that can be developed by the NAVOSHETC and included in a Safety ICW package. | Surface Ship Working Group | Apr 00 | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 23. Research the feasibility and determine the resources necessary to develop self-extracting downloading Power Point © Pack and Go files for each training lesson plan for the NAVOSH Training Guide for Shore Activities and NAVOSH Training Guide for Forces Afloat. Place lesson-training guides on the NAVOSHETC Homepage. | NAVOSHETC | Nov 99 | Conversion/development of self-extracting files is underway. |
| 24. Establish a means to encourage and recognize growth and development for Safety and Occupational Health and Industrial Hygiene Personnel. | T&E QMB | Mar 00 | |
| a. Identify process by which certification maintenance (CM) and continuing education units (CEUs) can be granted to applicable NAVOSHETC courses through the ABIH and BSCP. | Growth & Development TAT | Nov 99 | TAT met and provided information to NAVOSHETC. TAT report development and delivery to T&E QMB to occur at Sep 99 meeting. |
| b. Publish those courses with CM or CEUs in the NAVOSHETC course catalog and grant certificates for course completion. | NAVOSHETC | Jun 00 | Appropriate changes to be made to FY00 course catalog. |
| c. Determine feasibility of establishing Navy advanced Safety and Occupational Health certificates for completion of specified courses. | Growth & Development TAT | Nov 99 | |
| d. Develop a change to OPNAVINST 5100.23E establishing the award of Navy Advanced Safety and Occupational Health Certificates for completion of specified NAVOSH courses. | T&E QMB | Mar 00 | |
| 25. Take appropriate action regarding the NAVINSGEN report on Confined Space Entry, particularly those issues dealing with training. | CNO (N454) | Nov 99 | |
| 26. Identify to the T&E QMB shore audio-visual needs for shore activities. | Shore Working Group | Mar 00 | This action item is in response to a NAVSEA comment on the NTSP. |
| 27. Provide Shore Working Group with course attendance data for day of commencement and 30 days prior to commencement to allow working group to analyze whether the right people are being trained. | NAVOSHETC | Sep 00 | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 28. Determine the possibility and practicability of incorporating basic Safety Programs Afloat training into the E-5 Leadership course. | NAVOSHETC | Nov 99 | |
| 29. Investigate the issue of providing "train the trainer" training for instructors of Asbestos Class III workers. | NAVOSHETC | Nov 99 | |
| a. Determine the annual throughput for Asbestos Class III "train the trainer" training and report to NAVOSHETC. | Echelon 2 Commands | Nov 99 | |
| 30. Discuss the issue of whether the NAVOSHETC should chair the committee performing the planning for the annual Professional Development Conference rather than the Shore Working Group. Report results to the T&E QMB at Sep 99 meeting. | All Working Groups | Nov 99 | |
| 31. Determine the NAVOSHETC responsibility for auditing crane safety training at the Navy Crane Center. | NAVOSHETC | Nov 99 | |
| 32. Determine if a correlation exists between INSURV reported deficiencies and mishaps for ships. | NAVSAFECEN | Nov 99 | |

## VI.A. COMPLETED NAVOSH NAVY TRAINING PLAN ACTION ITEMS

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 1. Review reserve officer assession training to ensure that NAVOSH information in these courses is suitable to reserve personnel. | CNET/ COMNAVRESFOR/ CNO (N454) | Complete | Direct Commission Officer Indoctrination includes NAVOSH in curricula. Direct Commission Intelligence Officer Indoctrination course canceled. NAVOSHETC reviewed Advanced Paygrade Indoctrination course (R-950-0005). |
| 2. Correct deficiencies identified in NAVSUP review of 'A' school courses. | CNET | Complete | CNET reports that NAVSUP recommendations on MSDS and PPE training have been incorporated into curricula. |
| 3. Upon completion of development of the STEP course *Safety Programs Afloat* and *Afloat HM for Supervisors*, conduct a side-by-side evaluation against formal classroom training. | CNET | Closed | NAVOSHETC and surface working group report problems in the quality of STEP training, course upgrading has not been addressed and no means exists to proctor exams for course completion. NAVOSHETC *Afloat HM for Supervisors* course canceled in FY98 due to lack of Type Commander interest. |
| a. Notify CNO (869) about the problems being experience in STEP program quality. | NAVOSHETC | Complete | N869 representative made aware of issues at July 1996 meeting. |
| b. Establish a means for updating these courses once released to the fleet. | CNET/NETPDTC | Complete | NETPDTC indicates that they now have means of updating STEP courses. NETPDTC also indicates that all NAVOSH courses have been removed from STEP. |
| 4. Develop a videotape on elevator operations and maintenance safety. | N45 | Complete | Distribution Jan 96. |
| 5. Develop a videotape on forklift truck operational and maintenance safety. | N45 | Complete | Distribution Jan 96. |
| 6. Develop a series of short safety spots for use on ship TV systems. | N45 | Complete | Videotape approved and distributed by N45 in Sep 96. |
| 7. Develop a videotape on management of reproductive hazards in Navy workplace. | N45 | Complete | Approved and distributed. |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 8. Validate the requirement for aircraft carriers and large deck amphibious ships to receive AHERA training for maintenance personnel. | CNO Asbestos Task Action Team | Complete | Air Working Group reports that *Shipboard Asbestos Emergency Response* training is inadequate for aircraft carrier personnel and these persons need AHERA training. Deferred issue to CNO asbestos TAT. TAT recommended increasing shipboard emergency asbestos removal training from 1 to 2 days. AHERA training for emergency removal teams was not adopted. TAT considers AHERA training for ships assigned IMA responsibilities. ARGIMA will not have asbestos repair capability (only emergency). Change One to OPNAVINST 5100.19C resolves carrier issue. |
| 9. Incorporate the Managing a Respiratory Protection Program (1-day course) and program management information into the *Safety Programs Afloat* and *Afloat Safety Officer* courses. | NEHC/Respiratory Protection TAT | Complete | There is insufficient time to provide this training as a part of either the *Safety Programs Afloat* or *Afloat Safety Officer* training. Respiratory protection task action team investigated training for Respiratory Protection Officers on ships with collateral duty safety officers as a part of its charter. Two-day course commenced FY1998. |
| a. Cancel the NAVENPVNTMEDU courses when material incorporated. | BUMED | Complete | Courses have been terminated. |
| b. Develop a 1-day respiratory protection management course for respiratory protection officers aboard small ships (collateral duty Safety Officer). | CNSL/CNSP/CNET/ Surface Working Group | Complete (Feb 97) | CNO (N454) developed tasking letter requesting that CNET reevaluate the potential of incorporating this training into *Safety Programs Afloat* course. Surface Working Group reports that the proposed course developed by LCDR Hook is 2 days duration. Training Program Plan (TPP) developed for 2-day course. Type Commander reps report need for 2 day vice 1-day course. Type Commanders requested to validate requirement to CNO via Fleet CINCs. New course on-line FY1998. |
| 10. Develop and distribute a training needs assessment based upon the task analysis. | NAVOSHETC | Complete | Training needs assessment survey provided to NAVOSH Training Steering Committee. |
| a. Brief NAVOSH Steering Committee on result of needs assessment from analysis of data received. | NAVOSHETC | Complete | Steering Committee members provided with a copy of the NAVOSHETC analysis resulting from the needs assessment. No recommendation made regarding training modifications. |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| (1) Review that NAVOSHETC analysis of the training needs assessment and make recommendations to the Steering Committee on further action needed. | All working groups | Complete | The Surface Ship Working Group found there was no value in the data as presented. The use of the survey in its present format is not recommended. The Shore Working Group felt that no further action required. The Submarine Working Group indicated that this report provides little direct feedback and in the future, this type of assessment should not be used. |
| b. Incorporate the training needs assessment data into the NAVOSH and HMC&M NTP. | CNO (N45) | Closed | No action required. |
| c. Identify other SOH training needs throughout the Navy, such as accession training, rate-specific training, etc. | NAVOSHETC | Closed | CNET will work through TRRs and the annual needs assessments to determine training needs. |
| 11. Develop a Industrial Hygiene Professional Development Plan and incorporate final approved plan as Chapter 4 of the Career Development Program (NAVEDTRA 10076). Update/improve existing Safety Professional Development Plan as appropriate. | Task Action Team | Complete | Established a Task Action Team to rewrite the Career Development Program to include the industrial hygienist and incorporate the recommendations of the IHO Career Progression Model Working Group. The TAT presented the revised draft Career Development Program Manual to the Steering Committee and Quality Council at Aug 97 meetings. Comments were provided by 1 Oct 97. |
| a. Establish Functional Advisory Panel to perform the functions identified in NAVEDTRA 10076. | Shore Working Group | Closed | Shore Working Group recommends that the NTP no longer refer to the Functional Advisory Panel since the membership is the same as the Shore Working Group. Steering Committee agreed with the working group recommendation. |
| b. Develop/review a Management Development Plan and incorporate final approved plan as Chapter 3 of the Career Development Program (NAVEDTRA 10076). Ensure that chapters are consistent. Publish revised publication. | Task Action Team | Complete | TAT looked at this action item as a part of the rewrite for the Career Development Plan. The TAT presented the revised draft Career Development Program Manual to the Steering Committee and Quality Council at Aug 97 meetings. Comments on this manual provided by 1 Oct 97. |
| 12. Develop a Navy-owned, contractor-instructed mishap investigation course for presentation under the auspices of the NAVOSHENVTRACEN. | CNET/Shore Working Group | Closed | Shore working group to review at Apr 96 meeting and make recommendation to Steering Committee. Course canceled at end of FY 96. |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 13. Complete videotape on blood-borne pathogens and distribute. | NEHC/Shore Working Group | Complete | Videotape recommended by NEHC SMEs forwarded to shore working group for review. Shore working group recommends a second videotape for Navy purchase and use. Reviewed by Steering Committee 18 Aug 93. Decision pending. Videotape accepted by shore working group with a leader and minor changes to be made. NEHC and recommended contractor to meet to discuss changes. BUMED reports they will complete this project by Oct 94. Distribution complete. |
| 14. Review NAVSTDs for NAVOSH and HM control to ensure an understanding of Navy policy and regulations in those areas. (NTP 8603B, Item 12) | NAVMAC (N13)/ NAVOSHETC | Complete | NODAC ltr 5100 Ser 2021/606 of 28 Aug 92 indicates that review to be completed by FY95. NAVMAC reports NAVSTDs reviewed. Changes published in Chg. 11 to Navy Occupational Standards in Feb 96. |
| 15. Review OCCSTDs for all ratings to ensure that NAVOSH, including HM control, is adequately addressed. Accomplish through scheduled NOTAP process. (NTP 8603B, Item 13) | NAVMAC/ NAVOSHETC | Complete | NODAC ltr 5100 Ser 2021/606 of 28 Aug 92 indicates that review to be completed by FY95. NAVMAC reports that review of OCCSTDs for all ratings has occurred. NAVOSH and HMC&M data incorporated into all OCCSTDs. |
| 16. Incorporate DC 'A' School HM spill training into DCA and DC team training courses. | CNO (N869D4) | Complete | HM spill training material contained in Damage Control A school curricula has been incorporated into DCA course, Shipboard Damage Control, and Damage Control Team Training. |
| 17. Review "Gas Free Engineer Course" (A-495-0051) as part of NAVOSH training review effort to ensure compliance with the NAVOSH Program Manual for Forces Afloat, particularly in the area of respiratory protection. (NTP 8603B, Item 41) | CNO (N869D4) | Closed | Will review this requirement during the SWTRR. Major revision to NSTM 074 to be issued in mid 1996. Closed action. |
| 18. Review "Submarine Leading Storekeeper Course" (A-551-0089), "Submarine Junior Storekeeper Course" (A-551-0090) and "Submarine Repair Parts Petty Officer Course" (A-551-0091) to ensure the information on HM/HW is adequately addressed. (NTP 8603B, Item 46) | CNET | Complete | Jun 93 review scheduled. Submarine Working Group requests that SNEC 9595 course material be incorporated into Leading SK Course. SUBLANT conducted TRR during Aug 94. |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| a. Develop a plan for incorporating SNEC 9595 material following Submarine Leading SK course. | Submarine Working Group | Complete | COMSUBPAC in 19 Jan 95 letter to CNET requested that one week be added to end of course to teach SNEC 9595 material. A SWTRR met at end of May 95. Submarine Leading SK course attendees will receive HMC&M training following completion of the course. CNET to coordinate throughput and method of delivery of HMC&M training. Submarine Type Commanders worked with BUPERS to get billet on Ship Manning Document and get personnel ordered to course. Submarine Working Group reports that a "fair share" of quotas to HMC&M Technician Course will be assigned to submarine Leading Petty Officer training graduates. |
| b. Following approval and funding of project plan by N87, revise course. | CNET | Closed | Course modification will not be required. |
| c. Modify Submarine Repair Parts Petty Officer courses to incorporate additional HM training. | CNET | FY98 | SUBLANT representative determined that courses contain little HM information. HM training is needed. Submarine Repair Parts Petty Officer course will be addressed at next SWTRR. Submarine Repair Parts Petty Officer course changes made and verified at SWTRR, 21-25 Sep 98. |
| 19. Review available respiratory protection training material for activity on-board training and either purchase or produce training programs that can be used at shore activities to meet training requirements. Provide this training material to all affected shore activities. (NTP 8603B, Item 60) | Shore Working Group/CNET/NEHC | Complete | Shore Working Group reviewed the *NAVOSH Training Guide for Shore Activities* and determined that this publication met this requirement. |
| 20. Review available training materials on hearing conservation at the activity level and select or produce a suitable training package that may be distributed to all shore activities for conducting required hearing protection training. This training shall incorporate the requirements of OPNAVINST 5100.23C, Section 1802.7. (NTP 8603B, Item 66) | Shore Working Group/BUMED/ CNET | Complete | Shore Working Group reviewed *NAVOSH Training Guide for Shore Activities* and determined that this publication meets this requirement. |
| a. Provide the training package to NAVOSHETC for distribution. | BUMED | Closed | |
| b. Distribute the hearing protection training package to all shore activities. | NAVOSHETC | Closed | |

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| 21. Review available asbestos training material for use at the activity level and purchase or develop an on board asbestos training package which can be used by appropriate shore activities to meet training requirements of one hour per year to include: health hazards of asbestos; the effects of smoking on asbestos; uses of asbestos which could result in an exposure; engineering controls and work practices associated with asbestos work assignments; purpose, use and limitations of protective equipment; purpose and description of the medical surveillance program; description of emergency clean-up procedures; and an overall review of the requirements of OPNAVINST 5100.23C and the command's asbestos program. (NTP 8603B, Item 67) | Shore Working Group/ CNET/ NAVOSHETC | Closed | Shore Working Group reviewed draft *NAVOSH Training Guide for Shore Activities* to determine if publication meets this requirement. Working group reported that the chapter was removed from the training guide because it did not comply with the new Federal regulation. CNET to incorporate NEHC proposed changes to asbestos chapter into change one of document. |
| 22. Review available training material on lead compliance programs and either purchase of produce a training package which can be provided to appropriate activities to conduct lead training. (NTP 8603B, Item 68) | Shore Working Group/BUMED/ CNET | Complete | Shore Working Group reviewed *NAVOSH Training Guide for Shore Activities* and determined that publication meets requirements. |
| 23. Review available training material on RFR and either purchase or produce a training package that can be provided to appropriate activities to conduct RFR training. (NTP 8603B, Item 69) | Shore Working Group/BUMED/ CNET | Complete | Shore Working Group reviewed *NAVOSH Training Guide for Shore Activities* and determined that publication meets requirements. |
| 24. Review and evaluate subordinate activity training provided to QPs and other confined space personnel and forward best existing training packages in each category to Shore Working Group for possible Navy-wide use at all shore activities. | Echelon 2 Commands | Complete | CNO (N454) developed tasking letter. Shore Working addressed at Mar 97 meeting. CNO (N454) provided working group with Echelon 2 Command responses. CNET and other Echelon 2 commands have forwarded packages to CNO (N454) as required. N454E/Shore Working Group Chair to locate packages. |
| 25. Evaluate and establish formal training requirements for operators, instructors/examiners, and inspectors of WHE. Review and update existing training curriculum for operators. (NTP 8603B, Item 72) | NAVFAC/CNET | Complete | NOSHIP evaluation of WHE report signed out. Plan of action developed. NAVFAC developed revision to P-307 manual. Shore Working Group reviewed actions and made report to Steering Committee in Feb 96. P307 revision submitted to OSHA. Shore working group to evaluate commercial training sources for Category 3 training in FY97. Training requirements developed and published in revised NAVFAC P-307, Appendix N (Oct 96). |

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| 26. Determine best means of accomplishing developed WHE training requirements. (NTP 8603B, Item 73) | NAVFAC/CNET/ Shore Working Group | Complete | Shore working group found that adequate training was available and fleet reports that small activities are receiving cooperation in obtaining training. Training sources are not all well known or publicized. CNET provided working group with info on availability of course quotas for commands not in NCTC pipeline and a copy of course audit. NCTC course determined to be infeasible for most civilian workers Navy Crane Center surveyed commercial vendors to identify sources of crane and rigging training. Survey results to be provided to Shore Working Group following collection. Navy Crane Center review complete. |
| a. Once Crane Center report available, publish identified training activities (short list of five). | NAVSAFECEN | Complete | Naval Safety Center published the list of qualified trainers in *Safety Line*. |
| 27. Review computer assisted training package on Tag-out Program developed by NAVTECHTRASUPGRU Curriculum Development Team, Great Lakes for accuracy and to see if additional programs need development. (NTP 8603B, Item 92) | CNET/ NAVOSHETC | Complete | Found technical errors in training package. Package needs to be reviewed as a result of OPNAVINST 3120.32C. Returned to NAVTECHTRASUPGRU for revisions. |
| a. Correct technical errors, review and update per NAVOSHETC comments. | CNET/NAVTECH-TRASUPGRU | Complete | Computer assisted training package revised. Incorporated into Service School Command Great Lakes curricula. Now incorporated into STEP. |
| 28. Establish a process for NAVOSHETC participation in ATRRs. | Air Working Group/ CNO(N889) | Complete | Air Working Group reports that it identified need to CNO (889) for NAVOSHETC to participate in ATRRs. N889 gave verbal approval. Air Working Group worked with NAVOSHETC to identify high priority ATRRs requiring participation. To commence FY 99. |
| 29. As a result of the recent promulgation of OPNAVINST 5100.19C, conduct technical audit of those courses for which NAVSEA is the technical authority. This shall include DC 'A' School, Engineering Steam Generating Plant Inspector Qualification, Damage Control Assistant, Damage Control Repair Party Leader, Senior Enlisted Damage Control, Division Damage Control Petty Officer Indoctrination, Damage Control for Precommissioning Crews. | NAVSEA/CNET | Closed) | NAVSEA reported that technical audits no longer funded by CNO (N86) and that SWTRRs will conduct technical reviews |

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| 30. As a result of the recent promulgation of OPNAVINST 5100.19C, conduct technical audit of those courses for which NAVSUP is the technical authority. These course shall include SK, SH, and AK 'A' and 'C' schools, the Supply Corps Officer Basic and Department Head training, Ship Store Management, SNAP Leading Storekeeper Afloat, SNAP II SFM Functional Area Supervisor Course, and SUADPS Real Time Journeyman User. | NAVSUP/CNET | Complete | Recent changes to OPNAV/NAVSUP guidance warrants re-audit. SK "A" and AK "A" courses combined and revised to update HMC&M material. SH "A" school curricula reviewed during NTRR. Updated material to be incorporated into revised course. At Jul 96 Steering Committee meeting, NAVSUP committed to developing a plan of action for course reviews. CNET, in Feb 98, reported Laundry and Dry Cleaning Specialist and Shipboard Barber courses reviewed. Eight courses remain to be reviewed. CNET representative advised the Steering Committee that a SWTRR held Dec 1998 for the SK and AK ratings that addressed this training. |
| 31. Review the courses taught at NAVOSHETC and determine which should have Navy-owned/contractor taught curricula and which should be contractor provided/contractor taught curricula. | CNET | Closed | Will be considered during audits of NAVOSHETC courses. It will take 3 years to audit all shore courses. CNET reports that this is a part of its function. Steering Committee agreed. |
| a. Provide status of courses audited to date at each Steering Committee meeting. | Shore Working Group | Complete | Review process established. Reports of reviews to be provided to Steering Committee at every meeting. |
| 32. Conduct an audit of the *Afloat Safety Officer* course taught at SWOSCOLCOM. The audit team should include IHOs and seasoned afloat safety officers. | CNET/NAVOSH-ETC | Complete | Audit conducted. Results signed out to CNET. The training is technically reasonable. There were minor problems found in the training. |
| a. Make corrections to the *Afloat Safety Officer* course. | SWOSCOLCOM | Complete | SWOSCOL reports all comments incorporated into this course. CO SWOSCOL verified to CNET. |
| 33. Use a staff IHO position to work with OSHATI and other government training activities to identify and obtain training that can be used by the Navy. | NAVOSHETC | Closed | NAVOSHETC reported that a civilian has been assigned to work with OSHATI and other training centers. |
| 34. Monitor the program in which OSH professionals can receive reimbursement for attending specific training courses for effectiveness. Report results to the Steering Committee. | NAVOSHETC | Complete | Results favorable. NAVOSHETC recommended continuing pilot program. Steering Committee approved recommendation. During FY96 report, NAVOSHETC indicated all funds were obligated and to only one claimancy. The Steering Committee agreed that if additional funds were not available, the number of course available to one person would be limited to one and available training would be spread to other claimancies. The NAVOSHETC will limit applications to one course per person per year. |

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| 35. Reestablish the Deputy Director GM-14 position at the NAVOSHENVTRACEN. Fill this position with an occupational safety and health professional. | CNET/N45 | Closed | |
| 36. Develop/manage 1994 NAVOSH Conference with appropriate contractor support. | N45/Shore Working Group | Complete | The 1995 NAVOSH Conference accomplished by N454 staff and NAVAIR Training Institute. NAVOSHETC worked closely with N45/Shore Working Group/contractor with objective of taking over conference management for FY95 and out years. |
| a. Accomplish the 1995 Conference. | NAVOSHETC | Complete | At Jul 95 Steering Committee meeting, Shore Working Group reported that efforts are on track for this conference. |
| b. Accomplish the 1996 Conference. | NAVOSHETC/ Shore Working Group | Complete | Shore working group provided agenda at its meeting in Apr 96. Agenda signed. Process established. |
| c. Accomplish the 1997 Conference. | NAVOSHETC/Shore Working Group | Complete | Report made to Steering Committee at Feb 98 meeting. |
| d. Accomplish the 1998 Conference | NAVOSHETC/All Working Groups | Complete | Report made to T&E QMB at Feb 99 meeting. |
| 37. Conduct review of the Senior Enlisted Propulsion Engineering Course conducted at Great Lakes. Particularly look at the instruction on management of HM. | CNET | Complete | Naval Safety Center reports that this course is in poor condition regarding occupational safety and health training. This course will be reviewed in Aug 95 as part of the SWTRR for the MM/BT ratings. Although SWTRR conducted, it did not address HMC&M. CNET forwarded lesson topic guide to appropriate SMEs at NAVSAFECEN, NAVOSHETC, and NAVSUP for review. Review complete. Deficiencies identified and corrected. |
| 38. Take appropriate action to have IHOs assigned to ships as either Safety Officer or Assistant Safety Officer receive instructor training at SWOSCOL en route to their command. | BUMED/FLTCINCs | Closed | Steering Committee agreed to terminate adjunct instructor and package course efforts eliminating requirement for this training. |
| 39. Identify the issue of lack of suitable NAVOSH training for wing and squadron Safety Officer at the Naval Post Graduate School Aviation Safety Officer Course and request Post Graduate School take appropriate action. | Air Working Group | Closed | |

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| a. Look at establishing similar requirements for NAVOSH responsibilities of the Aviation Safety Officer as within COMNAVAIRLANT. | COMNAVAIRPAC | Complete | Looking at regionalization as a resolution of this issue. COMNAVAIRPAC to report status to Steering Committee. The COMNAVAIRPAC representative reported that they now use the same process for NAVOSH responsibilities as used in NAVAIRLANT. |
| 40. Identify the issue of lack of suitable NAVOSH training for wing and squadron Safety Officer at the Naval PostGraduate School Aviation Safety Officer Course and request PostGraduate School take appropriate action. | CNO (N454) | Closed | Air Working Group reports that this item is too hard to sort out/accomplish. At Feb 96 meeting, Steering Committee agreed that this issue should be reopened. Letter sent from CNO (N45) to Postgraduate School. Response received that postgraduate school does not recommend addition of information. Unsuccessfully attempted to convince Postgraduate School that an increase in the amount of NAVOSH training (more than the hour being conducted but less than the week they addressed) is possible. |
| a. Send a memo to CNO (N09B) about adding NAVOSH topics to Aviation Safety Course at PostGraduate School. | CNO (N454) | Complete | Letter sent from CNO (N45) to Postgraduate School. |
| 41. Review all Navy *ad hoc* and emergent formal and non-formal courses for consolidation, standardization, and centralization. | NAVOSHETC/ CNET/BUMED | Complete | Underway with NAVENVIRHLTHCEN and BUMED. CNET to develop a POA&M to accomplish this effort. First step is to determine *ad hoc* NAVOSH and HMC&M training being conducted. Presented the reported *ad hoc* training to Steering Committee at Jul 96 meeting. |
| a. Develop a plan of action for incorporating appropriate *ad hoc* training into formal courses. | NAVOSHETC/ BUMED | Complete | Shore Working Group determined in Mar 97 which of reported *ad hoc* course should be audited, incorporated, deleted. BUMED recommended that course B-322-3209 at EPMU 6 be canceled. The Steering Committee concurred with this recommendation. Course is canceled. |
| b. Working group recommends development of fall protection training to replace NAVFAC ad hoc training. | NAVOSHETC | Complete | Steering Committee recommended that Safety Certification course be canceled to compensate for new course. Training Project Plan developed, submitted to CNET and approved. |
| 42. Audit the HM Coordinator training at SWOSCOLCOM and Supply Corps Officer and Basic Training. Report results of audit to NAVOSH Training Steering Committee. (NTRR action item) | NAVOSHETC | Complete | Supply Corps school audited Sep 95. SWOSCOLCOM was audited in Jul 95. SWOSCOL reports that HM training has been reduced to overview. CINCPACFLT no longer requires XOs to be HM Coordinator. |

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| 43. Make preparations for and deliver the *Safety Programs Afloat* course by means of video tele-conferencing. Keep Steering Committee advised of progress/issues. | NAVOSHETC | Complete | NAVOSHETC reported to Steering Committee at Jul 95 meeting that this accomplished. A few glitches, but actions taken to resolve. Course delivered by VTT 5 times in FY95 and is scheduled for 14 times in FY96. Both technical and mechanical problems were overcome to accomplish. |
| 44. Investigate incorporating *Shipboard Asbestos Emergency Response* course into the HT "A" school. | CNO (N869D4) | Closed | CNO (N869) reports that this will not occur. NAVOSHETC to expand current course from 1 to 2 days. |
| 45. Use video tele-conferencing to export the *Afloat Safety Officer* course to remote sites. | SWOSCOLCOM | Closed | SWOSCOLCOM determined that it is more costly to export this course by video tele-training than to send an instructor to the remote sites to teach the course. |
| 46. Incorporate bar code reader information into SK 'C' school. | NAVSUP/ CNET | Closed | NAVSUP reports that training is incorporated into HICS/ CHRIMP workshop. |
| a. Supply bar code readers needed to support classroom training. | NAVSUP | Closed | NAVSUP determined that selected bar code reader was not compatible with HICS. NAVSUP does not think this is necessary or appropriate. Will address as a part of its course reviews. As of Feb 97, this issue was not resolved. In Feb 98, item was closed. |
| 47. Charter a Process Action Team to look at oversight inspections of ships and to report to the Steering Committee. | CINCLANTFLT | Closed | The issue is to reduce inspections but to make sure that NAVOSH is fully evaluated and noted deficiencies are expeditiously corrected. In Feb 95, CINCLANTFLT chartered PAT to look at this issue. Looked at NAVOSH inspections. Reported to Steering Committee at Feb 96 meeting; no follow-up action. Transferred to Quality Council. |
| 48. Convene and chair the Shipboard Occupational Safety and Health Deficiency Management and Correction PAT to identify issues and solutions for the correction of safety problems identified in the CSMP. | CINCLANTFLT | Complete | First meeting conducted. Guidance to be issued to Safety Officers on Ship's Maintenance Action Form reporting of safety deficiencies. Briefed Steering Committee on findings and recommendations of PAT during Feb 95 meeting. |
| a. Track accomplishment of recommendations CSMP PAT. Report results to Steering Committee. | CINCLANTFLT | Closed | Report made to Steering Committee at Feb 96 meeting. Three actions are still outstanding. Items are being addressed individually. See below. |
| (1) Revise OPNAVINST 4790.4B to include detailed information of the 1D options procedures and use. No action has been taken on this recommendation. | NAVSEA | Complete | NAVSEA reports that this information is in OPNAVINST 4790.4B. |

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| (2) Revise OPNAVINST 3120.32 concerning the 1D option and encoding criteria. | CNO (N454/N86) | Closed | N454/N869 agreed to update publications, referring to current documentation (OPNAV 4790/4B). |
| (3) Ensure Safety Officers attend the work definition conference to coordinate discrepancies identified in the 1D option. | Type Commanders | Complete | All Type Commanders report action is complete. |
| (4) Streamline funding and SHIPALT procedures for NAVSEA-funded SHIPALTs to allow rapid correction of imminent danger discrepancies. | NAVSEA | Complete | Fleet Maintenance Program Management Information System (FMPMIS) is operational. It provides managers with updated status of SHIPALTs. It includes RAC codes. It is available for the Fleet CINCs and Type Commander personnel to review. Staff safety officers need to use this program to ensure proper accomplishment of safety related ALTs. |
| (5) Send Maintenance Data System Notes to change procedures to allow Safety to review and encode 2Ks in the 1D option. | Type Commanders | Complete | Action completed by Type Commanders. |
| (6) Develop a proposed change to OPNAVINST 5100.19C to cover the SNAP III system. | NAVSAFECEN | Complete | This item was addressed in a Ship Safety Bulletin. The SAFECEN developed a change to OPNAVINST 5100.19C. Submitted to instruction change working group. |
| 49. Identify specific personnel or groups of personnel for whom loopholes in the current procedures of NSTM Chapter 074, Vol. 3 reduce the protection afforded. | Submarine Working Group | Complete | Working Group provided input to CINCPACFLT for delivery to NAVSEA/Steering Committee for incorporating into Chapter 074, Vol. 3, NSTM. CINCPACFLT indicates that letter requests all information on gas free engineering be incorporated into OPNAVINST 5100.19C. CINCPACFLT (and Steering Committee) did not agree with this approach. NAVSEA does not recommend. |
| 50. Identify specific personnel or groups of personnel for whom loopholes in the current procedures of NSTM Chapter 074, Vol. 3 reduce the protection afforded. | Submarine Working Group | Complete | Working Group provided input to CINCPACFLT for delivery to NAVSEA/Steering Committee for incorporating into NSTM Chapter 074, Vol. 3. CINCPACFLT indicates that letter requests all information on gas free engineering be incorporated into OPNAVINST 5100.19C. CINCPACFLT (and Steering Committee) did not agree with this approach. NAVSEA does not recommend. |
| a. Modify NSTM Chapter 074, Vol. 3 to remove loopholes which reduce the protection afforded to personnel or groups | NAVSEA | Complete | NAVSEA aware of Submarine Working Group concerns and will ensure chapter is modified to remove loopholes. NAVSEA reports that this change was issued in Mar 99 CD-ROM. |

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| 51. Following a decision by the Environmental QMB regarding training on reutilization and inventory management, evaluate and recommend to the Steering Committee a method of providing HICS training to afloat and shore personnel. | CNO (N45)/NAVSUP | Complete | Should HICS be taught as a part of current courses extending the length of the courses by as much as 2 days or should it be taught as a separate course? NAVSUP representative agreed to initiate a letter to CNO (N45) initiating efforts to formalize the HICS course. This formalization would involve changing the workshop to a course, assigning a CIN to the course, and designating NAVOSHETC as the CCMM. HMPO personnel would continue to teach the new course and NAVSUP would be the technical support agent (TSA). |
| a. Develop a lesson guide and student guide for *ad hoc* HICS/CHRIMP training currently being provided. These could be the basis for the development of a formal course. | NAVSUP/ NAVOSHETC | Complete | Following designation, NAVOSHETC as CCMM will develop the course training guides, et al. This item is pending the completion of the MOU between NAVSUP and the NAVOSHETC. Effort on the MOU is complete. Lesson guide to be developed as a part of course conversion to CNET format. |
| 52. Determine whether a NAVOSH orientation videotape should be developed which would assist shore activities in their training efforts. | Shore Working Group | Complete | The Steering Committee discussed and agreed that such a tape would be beneficial. |
| a. Develop a concept paper for this videotape and determine the best means of accomplishing. | Shore Working Group | Complete | Shore Working Group developed a concept paper for videotape and recommended a videotape be produced. Reviewed and approved at Jul 96 Steering Committee meeting. |
| b. Address ideas for content for this videotape. | Shore Working Group | Complete (Feb 97) | Shore Training Working Group recommends contracting for the development or have NAVOSHETC develop. Shore working group provided Steering Committee with issue paper at Aug 97 meeting addressing proposed topics in videotape. |
| 53. Update directives to ensure training requirements of OPNAVINST 5100.19C are reflected. | Type Commanders | Complete | All Type Commanders report action is complete. |

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| 54, Determine the type of reproductive hazards training for occupational safety and health professionals and appropriate physicians and make a recommendation to the NAVOSH Training Steering Committee. | BUMED | Complete<br>(Feb 98)<br>(Jul 96) | Navy-approved reproductive hazard board met Mar 97. Chapter was completed and delivered to Quality Council for inclusion in OPNAVINST 5100.23E. This chapter states that these persons should receive training on legal considerations, risk communications, and technical issues and that training provided in Navy-sponsored workshops and CNET-approved courses is sufficient to satisfy this requirement. BUMED to yet determine the training requirements for OSH professionals. Board is reconvening in Mar 98. Action document provided to board identifying needs. The Reproduction Hazards Review Board identified specific OSH professional groups for training. NAVOSHETC to adjust curricula accordingly. |
| a. Develop a reproductive hazards videotape for health care providers. | BUMED | Closed<br>(Sep 99) | BUMED is concerned whether a videotape is the correct venue to provide this training. BUMED also recommends that the responsibility for determining the training tool be assigned to the OHS QMB. The T&E QMB concurs with this recommendation. |
| 55. With removal of Echelon 2 approval requirement for quota control, continue to track no-shows and any quota control problems. | NAVOSHETC | Complete | During Feb-Jul 95, good attendance and proper people attending was reported by NAVOSHETC. When data on reasons for course attendance and time remaining in Navy service/employment, present to Steering Committee. |
| a. Develop and implement a series of questions to be added to the student data sheet to determine reasons for attending and remaining time in service or Navy employment. | NAVOSHETC/special working group | Complete | Series of questions developed and added to questionnaire. Shore Working Group recommends that NAVOSHETC brief Steering Committee on data collected at end of FY97. CNET indicated that although questions were added, no review of results was required unless people who needed training were being excluded. This is not the case at this time. |
| 56. Review Chapter B1 of OPNAVINST 5100.19C and determine if standards and guidance are suitable and complete. Modify the guidance as appropriate. | N45 | Complete | Chapter B1 provides the standards and guidance necessary for the ship to properly perform maintenance involving asbestos containing material (ACM). NSTM 635 will provide technical guidance to support Chapter B1. Chapter B1 was reviewed and found to contain appropriate safety and health guidance. |

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| a. Revise NSTM Chapter 635. Coordinate review of the chapter with appropriate activities. | NAVSEA | Complete | NAVSEA issued ACN referring NSTM Chapter 635 users to either OPNAVINST 5100.19C or OPNAVINST 5100.23D for safety and health requirements for asbestos work on board ship. At Jul 95 Steering Committee meeting, NAVSEA representative informed that there were other issues besides safety that required immediate update. At Feb 96 Steering Committee meeting, NAVSEA reported a draft revision to NSTM 635 during Dec 95. NAVSEA reviewed comments and incorporated as appropriate. NAVSEA reported new chapter issued with Apr 98 CD-ROM. |
| 57. Develop a course to replace *Laser Systems Safety Officer, Category II* that provides training on both lasers and radio frequency radiation. | SPAWAR/CNET | Closed | Determine the feasibility of combining these two topics into one course. Determine the resources required and who will provide. SPAWAR reports that funds needed to produce this training have been zeroed. No resources available to accomplish this action. SPAWAR is funding about 1.5 courses in FY97. NAVOSHETC to offer two classes. |
| 58. Determine why all Navy gas-free engineering requirements cannot be met by the current NAVOSHENVTRACEN *Confined Space Engineering* course (A-493-0030). | CNET/NAVAIR | Complete | The Steering Committee determined that the Navy needs only one course for training of CSPM and ACSPM personnel. This is conducted at the NAVOSHETC. All other personnel are to be trained by a CSPM. The Aviation Confined Space course will be canceled (with concurrence of CNO (N889) when training package provided to CSPM personnel. |
| 59. Provide a computer program as a part of the HMIS CD-ROM that will identify compatibility problems for HM. Resolve differences between Army/ Air Force and Navy compatibility guidance. | NAVSUP | Closed | Reported by Surface Working Group. Surface Working Group (during Dec 96 meeting) determined that compatibility charts place in the work center and storage area will suffice and a program is not needed. They recommend closing item. |
| 60. Request cognizant authorities for four videotapes identified as obsolete/inaccurate to remove them from the Navy General Visual Information Library. | CNET | Complete | NAVOSHETC asked NAVSAFECEN to remove two videotapes and action taken. CNET initiated documentation (DD Form 1995) to declare the six movies (Safety in the Office, Eye Safety, To Live in Darkness, Electricity Your Deadly Shipmate, Fire Prevention Know your Fire Hazards, and Fire Prevention Nature of Fire) obsolete. Action taken to remove from libraries. |

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| 61. Review and evaluate non-Navy formal SOH courses for availability, quality, and suitability. Determine whether SOH training courses should be consolidated, standardized, or centralized as a part of this evaluation. | NAVOSHETC | Closed | NAVOSHETC to obtain and review the ITRO report and determine if this has already been accomplished. Report to Steering Committee. ITRO report not released due to Army objections. Navy has recommended that ITRO be decommissioned. |
| 62. Review Hospital Corpsman 'C' Schools, medical officer indoctrination training. Hearing Conservation Afloat, and Hearing Conservation Technician courses to ensure they reflect changes in OPNAVINST 5100.19C. | BUMED | Complete | BUMED reports that NEHC reviewed the Training Requirements Inventory (skills and knowledge) for these courses in Aug-Sep 96 and found them to comply. |
| 63. Review NAVOSH training conducted at SOSMRC to ensure up-to-date with recent changes to OPNAVINST 5100.19C. | CNET/NAVSEA | Complete | NAVSEA reviewed SOSMRC training in Jan 96 for NAVOSH and HMC&M material. Satisfactory. Report to follow. SOSMRC course was canceled during summer of 96. |
| 64. Review the Hazardous Material Management Transportation and Storage - Ocean (A-8C-0035) course to ensure that it agrees with OPNAVINST 5100.19C, OPNAVINST 5100.23D, and 49CFR. | CNET | Closed | Course canceled. |
| 65. Review the Confined Space Safety Course (A-493-0030) to evaluate its adequacy for both maritime and non-maritime CSPMs and ensure that it incorporated the requirements of Chapter 27 of OPNAVINST 5100.23D. | NAVSEA/Shore Working Group | Complete | |
| 66. Develop a POA&M for accomplishing the requirements of OPNAVINST 5100.23D for the Energy Control Program. | CNET | Complete | POA&M submitted to CNET 27 Feb 96. CNET reports all actions on POA&M completed. Will monitor tagout provisions in training as recurring item. |
| 67. Audit the MSC NAVOSH Training Program to determine its quality and accuracy. | NAVOSHETC | Complete | 16-17 Apr 97 review scheduled. Also reviewed HMC&M training conducted at Athens. No significant deficiencies. |
| 68. Review engineering duty officer training to ensure it adequately addresses NAVOSH and HMC&M. | NAVSEA(00T)/CNO (N45) | Complete | NAVSEA determined that this training under the cognizance of CNO (N43). NAVSEA (00T) controls safety and health and environmental sections of the curriculum and ensures that material is updated. NAVSEA 09D9 obtained OSH portions of curricula and provide to Steering Committee. |
| 69. Determine the feasibility of incorporating electronic documentation of NAVOSH training completion/ attendance. | CNO (N454) | Complete (Jul 96) | Zero-based review of OPNAVINST 5100.23D recommended that electronic records without a signature would be acceptable and change will be incorporated into E revision. |

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| 70. Develop a proposed course content for a Mishap Investigation course to replace the Basic Mishap Investigation and Recordkeeping course, a 3-day Mishap Investigation Refresher course to replace the Advance Mishap Investigation course and a new 2-day Mishap Investigation Recordkeeping course. | Shore Working Group | Complete | Project plans to cancel the Basic Mishap Investigation and Recordkeeping course and the Advanced Mishap Investigation course approved. Courses canceled at end of FY96. Project plan to commence 5 day Mishap Investigation and Prevention (Ashore) course and 1 day Mishap Recordkeeping Seminar approved. Courses started first quarter FY97. A Mishap Investigation Refresher course will be provided annually at the Professional Development Conference. |
| a. Upon receipt of proposed course contents for the various mishap investigation courses, develop a project plan for the courses. | CNET/ NAVOSHETC | Complete | |
| 71. Develop a means of accomplishing industrial hygiene officer training prior to reporting to first shipboard tour. This training should include: *Afloat Safety Officer*, *Afloat Environmental Coordinator*, *Analysis of Bulk Asbestos*, *Analysis of Airborne Asbestos Samples*, *IMA Asbestos Removal*, and *Respiratory Protection Program Manager.* | BUMED/NEHC | Closed | This will be addressed as part of the industrial hygiene career development process working model. |
| 72. Review existing PQSs and determine if they adequately addresses PRESINSURV concern that there should be a mandatory PQS covering NAVOSH, HMC&M, and environmental topics to be completed by all hands within 6 months of reporting aboard. | FLEET CINCs/ CNO (N45) | Closed | This action item relates to the INSURV initiative for a comprehensive basic NAVOSH and environmental protection PQS for all hands. Some fleet responses are that these subjects are adequately covered by existing PQS. This item was closed based on Fleet CINC input that they did not support additional PQS. |
| 73. Review the Career Development Program (NAVEDTRA 10076) and determine if the safety and health professional requirements remain valid. | Shore Working Group | Closed | Incorporated into another action item per CNET request. |
| 74. Review the OPNAVINST 5100.23D Appendix 7-C Training Guide outlines and determine what assistance, if any, needs to be provided to activities for accomplishing the requirements. | Shore Working Group | Closed | This item was combined with the action to review and update the NAVOSH Shore Training Guide. |
| 75. Brief the Steering Committee in the same detail for shore mishaps as has been accomplished for afloat mishaps at future meetings. | NAVSAFECEN | Complete | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 76. Analyze data on SNEC-9595 training and provide CNO with: the numbers of people requiring this training, the number of people trained, and the length of time people with this training remain in their position. Provide a recommendation concerning 3 options:<br>● Provide more training to meet requirements<br>● Provide less training and require COs to retain personnel in HAZMINCEN for 3 years<br>● Limit the training to SK rate | CINCLANTFLT/ CINCPACFLT | Closed | |
| 77. Provide a report to the CNO regarding problems associated with the wearing of back belts aboard ship. | BUMED | Complete | BUMED representative provided Steering Committee with a proposed letter to Fleet CINCs on this issue. Steering Committee agreed with the letter and encouraged the Fleet CINCs to widely disseminate when the letter is signed out. |
| 78. Produce a videotape on shore facility ventilation systems operation and maintenance. | CNO (N454) | Complete | Video complete and being distributed. |
| 79. Produce a videotape on the NAVOSH Strategic Plan and the efforts of the NAVOSH Training Steering Committee. | CNO (N454) | Complete | Videotape reviewed, approved, and distributed. |
| 80. Review current working group charter and revise as appropriate to reflect the duties and responsibilities of the working groups. | CNO (N454)/Shore Working Group | Closed | Shore Working Group to make proposal to Steering Committee at Aug 97 meeting. |
| 81. Develop a revised chapter on Asbestos for the *NAVOSH Training Guide for Shore Activities*. | Shore Working Group/ CNET/ NAVOSHETC | Complete | NEHC developed chapter and provided to NAVOSHETC. Will be incorporated in NAVOSH Training Guide when other guides are finished. |
| 82. Develop policy for medical certification, training and fit testing for new NIOSH-approved replacement respirators for the EEBD and OBA. | CNO (N454E) | Complete | At Aug 97 meeting, Steering Committee was informed that NAVSEA intends not to require medical clearance/fit testing. Steering Committee recommended that NAVSEA review this decision and provide the basis for a decision to the Steering Committee. At Feb 98, NAVSEA provided Steering Committee with basis for recommendation. CNO (N45) to issue policy. |
| 83. Develop an issue paper on the types of technology-intensive training that are available for consideration in the provision of NAVOSH training to the Navy. | NAVOSHETC | Closed (May 97) | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| a. Provide an input to the NAVOSHETC on technologies that should be considered for NAVOSH training. | Working Groups | Closed | Air Working Group reported that their input provided to NAVOSHETC. |
| 84. Audit the Aviation Safety Specialist course and compare it to the Safety Programs Afloat Course. | NAVOSHETC | Complete | AIRLANT and AIRPAC representatives reviewed the Aviation Safety Specialist Course. Compare with Safety Programs Afloat course. NAVOSHETC received recommendations for course modification that will be incorporated into revised courses. The contract is up for review. Air Working Group strongly recommends that course be shortened to 5 days from 8 days. |
| 85. Conduct an afloat safety training review to determine requirements for training and course throughput. | CNO (N454/N869)/ Fleet CINCs/CNET | Complete | |
| 86. Review the proposed HAZMINCEN manning in the draft NAVOSH and HMC&M NTSP and determine what modifications if any need to be made. | Fleet CINCs/Type Commanders | Closed | Submarine type commanders agree with manning proposal for submarine tenders and floating drydocks. No further action taken. |
| 87. Change the IMA Asbestos Removal Course prerequisites to allow civilian personnel to attend. | CNET/NAVOSHETC | Complete | |
| 88. Determine if Submarine Squadron Commanders have any responsibility for the safety of assigned submarines. | COMSUBLANT | Complete | Action taken on Squadrons 16/20 (assistant Material Officer to be Safety Officer). Established Submarine Support Units in each port. This unit provides the remaining Squadrons with safety/NAVOSH support. |
| 89. Obtain information from group and squadron safety officers on availability and use of NAVOSH videotapes and report results to CNO. | COMNAVSURFPAC/ COMNAVSURFLANT | Closed | No action taken. |
| 90. Upon completion of current Ergonomic Course contract, update training based on lessons learned in carrying out Corporate Ergonomics Plan. | CNET/NAVOSHETC | Complete | |
| 91. Determine the need and the process for making the SNEC 9595 perishable. | CINCLANTFLT/ CINCPACFLT | Complete | CINCLANTFLT representative advised Steering Committee that it is impractical to make this SNEC perishable. Suggested that consideration be given to limiting the rate of the SNEC to E-5 and E-6. COMNAVAIRPAC indicated that they needed E-7 SNEC personnel on aircraft carriers. |
| 92. Resolve with INSURV the respiratory protection fit-testing requirements for ships without a primary duty safety officer and issue revised policy to the fleets | CNO (N454E) | Complete | |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| 93. If limited resources for starting the new courses on Fall Protection and OSH 2000 and revising the Ergonomics course, identify the existing shore courses that should be reduced to make up the shortfall. Provide a recommendation to CNO (N45). | Shore Working Group | Complete | |
| 94. Incorporate the requirements for Fall Protection and OSH 2000 training into OPNAVINST 5100.23E. | CNO (N454E) | Complete | Requirements have been added to Chapter 6, Section 602d of OPNAVINST 5100.23E. |
| 95. Resolve with INSURV the respiratory protection fit-testing requirements for ships without a primary duty safety officer and issue revised policy to the fleets | CNO (N454E) | Complete | CNO issued 221849Z APR 98 stating that a graduate of the 2 day RPO course (A-4J-0082) is authorized to perform fit testing of respirators. |
| 96. If limited resources for starting the new courses on Fall Protection and OSH 2000 and revising the Ergonomics course, identify the existing shore courses that should be reduced to make up the shortfall. Provide a recommendation to CNO (N45). | Shore Working Group | Complete | Shore Working Group provided recommended modification to NAVOSHETC course convenings to pay for Fall Protection and OSH 2000 course. Schedule modification made by NAVOSHETC. |
| 97. Incorporate the requirements for Fall Protection and OSH 2000 training into OPNAVINST 5100.23E. | CNO (N454E) | Complete | Requirements have been added to Chapter 6, Section 602d of OPNAVINST 5100.23E. |
| 98. Perform a job task analysis of the Divisional Safety Petty Officer position. Compare this analysis with the content of the Safety Programs Afloat course to ensure that it teaches the proper material. | NAVOSHETC | Complete (Mar 99) | Results of COMNAVSURFPAC R051620Z "Safety Petty Officer Survey" provided to NAVOSHETC and NAVSAFECEN. Surface Ship Working Group recommends that further analysis/action should be by CNET. NAVOSHETC will work with Type Commanders and ship-input during a major (zero-based) review of Safety Programs Afloat Curriculum. |
| 99. Determine a method of measuring the effectiveness of NAVOSH and HMC&M training including the correlation between training and mishaps and deficiencies. | NAVSAFECEN/ Training Effectiveness TAT | Complete | NAVSAFECEN studied correlation between Divisional Safety Petty Officer training and mishaps. Absolutely no correlation was established. In fact, correlation was weak on all variables. Recommend putting mechanism in place to correlate mishaps with cause. LCDR Nelson volunteered as member of Training Effectiveness TAT. |

| ACTION ITEM | ACTION | CURRENT (ORIGINAL) DUE DATE | REMARKS |
|---|---|---|---|
| a. Using the method identified in 104, evaluate the effectiveness of the Safety Programs Afloat Training. Recommend to the Steering Committee the percent of Divisional Safety Petty Officers per ship that should receive this training. | NAVSAFECEN/ Training Effectiveness TAT | Closed | |
| 100. Reissue the respiratory protection training message and issue a similar message on asbestos training requirements for ships that do not have asbestos thermal insulation, but do use asbestos products aboard. | CNO (N454) | Closed | Message on respiratory protection reissued by N45. Message on asbestos training requirements for ships that do not have asbestos thermal insulation has not yet been developed and action awaiting outcome of IDTC decisions. This issue addressed in Change 2 to OPNAVINST 5100.19C that has been issued. |
| 101. Determine a method for changing OPNAVINST 3120.32C, Chapter 7 so that it does not provide details of Safety Program management, but rather basic safety philosophy. The revised Chapter 7 should refer the reader to OPNAVINST 5100.19 (series) for details. Accomplish the change. | CNO (N454/869) | Complete | Change 3 to OPNAVINST 3120.32C issue that addresses changes to Chapter 7. |
| 102. Respond to the recommendations on a CNO (N454) point paper on the viability and continued production of the HMUG. Provide input to NAVOSHETC for consolidation and submission to CNO (N454) | Fleet CINCs/Type Commands | Complete | Responses received. Results divided between retaining and canceling. |

## PART VII - POINTS OF CONTACT

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