NAVY TRAINING SYSTEM PLAN FOR THE JOINT SERVICE FAMILY OF

BLOCKS I, II, III, IV

DECONTAMINATION SYSTEMS

N78-NTSP-A-50-0116/I
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EXECUTIVE SUMMARY

The Joint Service Family of Decontamination Systems (JSFDS) will provide a family of decontaminates and applicator systems that are less corrosive, less hazardous, and more environmentally friendly than existing decontaminants. The JSFDS will provide a capability to decontaminate fixed sites, ports of entry, airfields, logistics support bases, and key command and control centers, including personnel and mission essential equipment which have been exposed to the damaging effects of Nuclear, Biological, or Chemical warfare agents and/or contaminants. The JSFDS program is an effort to bring the existing Nuclear, Chemical, and Biological (NBC) program into synch with today's technology.

This document will become the Navy annex to the Joint System Training Plan (J-STRAP) and does not contain Marine Corps requirements. The Marine Corps is the lead service for JSFDS and will produce the J-STRAP, which will include all Marine Corps requirements.

JSFDS is an ACAT III program in the System Development and Demonstration Phase, currently approaching a Milestone B decision. JSFDS is being procured in Blocks with the following current Initial Operational Capability (IOC) projections. IOC for Block I is Fiscal Year (FY) 04; Block II is FY05; Block III is fourth quarter FY06 and Block IV has not been determined.

Block I (FY99-FY05) will provide the warfighter with an improved near-term capability through the identification and fielding of a family of Commercial Off-The-Shelf/Non-Developmental Item (COTS/NDI) decontaminants and, where applicable, integral applicators. Block II (FY00-FY06) will provide the warfighter with the applicator and/or containment systems capable of dispensing the Block I family of decontaminants while controlling and/or containing hazardous run off. Block III (FY00-FY11) will provide the warfighter with the capability to decontaminate personnel and casualties to include those with open wounds. Block IV (FY-TBD) will address requirements that have been traded-off or are currently ill-defined or undefined.

This NTSP was developed to meet the Milestone B requirements for Block I and details the Manpower, Personnel, and Training requirements for Blocks I and III. Subsequent blocks will be addressed in revisions to this document during the evolutionary acquisition cycle. Rudimentary information for Blocks II and IV is included to present a better understanding of the overall program.

The Navy does not have a Navy Enlisted Classification (NEC) code for NBC operators or maintainers, but relies on personnel collateral duty assignments. Damage Controlman (DC) and Aviation Boatswain's Mates (Handler) (ABH) will be tasked as operators. Trained squadron contamination control and maintenance personnel will perform aircraft and support equipment

decontamination. Trained Seabee Battalion Contamination control and maintenance personnel would perform Table of Allowance equipment decontamination. No specific Seabee ratings should be assigned or designated, as positions are augmented due to availability. JSFDS will not require any increases in manpower.

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LIST OF ACRONYMS

ABH Aviation Boatswain's Mate (Aircraft Handler)
AMTCS Aviation Maintenance Training Continuum System

AS Aviation Support Equipment Technician

ATG Afloat Training Group

CAI Computer-Aided Instruction
CBD Chemical Biological Defense

CBR-D Chemical Biological Radiological - Defense

CBT Computer-Based Training

CD-ROM Compact Disk - Read Only Memory
CMI Computer-Managed Instruction
CNO Chief of Naval Operations

COMNAVSURFLANT Commander Naval Surface Forces Atlantic COMNAVSURFPAC Commander Naval Surface Forces Pacific

COTS Commercial Off-The-Shelf

DC Damage Controlman

DCTT Damage Control Team Training

DT Developmental Test

FY Fiscal Year

HM Hospital Corpsman

HT Hull Maintenance Technician

ICW Interactive Courseware

IMI Interactive Media Instruction

JSFDS Joint Service Family of Decontamination Systems
JSSED Joint Service Sensitive Equipment Decontamination

J-STRAP Joint Service System Training Plan

LIPT Logistic Integrated Product Team

MTIP Maintenance Training Improvement Program

NA Not Applicable

NAVSEA Naval Sea Systems Command

LIST OF ACRONYMS

NBC Nuclear, Biological, Chemical NCTC Navy Construction Training Center

NDI Non-Developmental Item
NEC Navy Enlisted Classification
NET New Equipment Training
NOBC Navy Officer Billet Code
NTSP Navy Training System Plan

OPO OPNAV Principal Official

OT Operational Test

PC Personal Computers
PMA Program Manager, Air

RFT Ready For Training

SDK Skin Decontamination Kit

STEP Shipboard Training Enhancement Program

SWOS Surface Warfare Officer School

TBD To Be Determined TD Training Device

TIM Toxic Industrial Material
TTE Technical Training Equipment

PREFACE

This Initial Navy Training System Plan (NTSP) is an early look at the Joint Service Family of Decontamination Systems (JSFDS) program. This revision of the Initial NTSP contains updated information for the JSFDS program and explores the various employment and support alternatives currently under consideration for Navy requirements for Blocks I and III. Data is incomplete for Block II, but included to provide a better understanding of the overall program. Since it is relatively early in the acquisition process, some definitive data was unavailable for inclusion in this version. This NTSP is a product of the Training Planning Process Methodology, as outlined in OPNAV publication P-751-3-9-97.

The requirements documented in this NTSP will be incorporated into the Joint System Training Plan (J-STRAP) as a Navy Annex. The Marine Corps is the lead service for the J-STRAP and will produce and document its own requirements in the J-STRAP.

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PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

- **1. Nomenclature -Title-Acronym.** Joint Service Family of Decontamination Systems (JSFDS)
 - 2. Program Element. 0604384BP

B. SECURITY CLASSIFICATION

1.	System Characteristics	Unclassified
2.	Capabilities	Unclassified
3.	Functions	Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor	CNO (N78)
OPO Resource Sponsor	CNO (N78)
Functional Mission Sponsor (if applicable)	CNO (N78)
Developing Agency	NAVAIRSYSCOM (AIR 4.1.8)
Training Agency	CINCLANTFLT (N721) CINCPACFLT (N70) CNET (ETE32)
Training Support Agency	NAVAIRSYSCOM (PMA205) COMNAVAIRESFOR
Manpower and Personnel Mission SponsorNA	
Director of Naval Training	CNO (N795)

D. SYSTEM DESCRIPTION

1. Operational Uses. The primary mission of the JSFDS is to provide the capability to remove and/or neutralize Nuclear, Biological, Chemical (NBC) warfare agents and Toxic

Industrial Materials (TIM) from fixed sites, ports of entry, airfields, ships, aircraft, logistics support bases, key command/control centers, and personnel, including those with open wounds.

- **2. Foreign Military Sales.** No foreign military sales are planned at this time. This is a Joint program that includes the Army, Navy, Air Force, and Marine Corps.
- **E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** Developmental Test (DT) and Operational Test (OT) for Block I Decontaminates will begin in August 2002. DT and OT for Block II Applicator Systems are scheduled for Fiscal Year (FY) 03, with Block III Skin Decontaminates Kits (SDK) scheduled for FY05. Many mature Non-Developmental Item (NDI) or Commercial Off-The-Shelf (COTS) technologies are available and will be evaluated for possible use in the JSFDS.
- **F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.** Eventually, all current decontaminates will be replaced by JSFDS. The JSFDS is being developed in four blocks. Block I will provide a family of decontaminants that are less corrosive, less hazardous, and more environmentally friendly that existing decontaminants. Block II is a new family of applicators, and Block III is a new SDK that will replace the current M291 SDK. Block IV will be used when there is evidence that significant improvements are possible. Authority to pursue a product improvement or block upgrade will be requested as required and will not be addressed in this NTSP.

G. DESCRIPTION OF NEW DEVELOPMENT

- 1. Functional Description. JSFDS will be used to support all echelons of the Navy covering afloat, ashore, and deployed activities per requirements. This concept recognizes that Naval aircraft carriers and amphibious warfare ships are considered fixed sites. The objective family of systems will allow for the decontamination of permanent and operationally fixed sites to minimize the effects of an NBC or TIM hazard and restore operations safer and faster than with pervious systems. Current systems are limited to basic detergent and water washes, and the use of High Test Hypochlorite (HTH) for shipboard external surfaces.
- **a. Flight Operations.** For shipboard applications the JSFDS will be used to decontaminate aircraft carriers, amphibious warfare ships, selected exterior surfaces, aircraft elevator platforms, flight decks, etc., including shipboard personnel and movable or fixed equipment located on these surfaces. Due to space constraints, Naval aviation requirements dictate the need for a man portable system for flight deck operations at sea to be developed during Block II. Additionally, the man portable system will be required for small detachments away from the ship and certain expeditionary settings. For shore applications the JSFDS will be used to decontaminate aircraft hangar spaces, ramps, support equipment, and personnel.
- **b. Aircraft.** Aircraft include all combat and support, both fixed and rotary wing. The JSFDS will be used to decontaminate exteriors, ordnance, pods, drop tanks, support

equipment, cargo, and personnel. Aircraft sensitive equipment, interiors, and aircrew sensitive equipment (night vision devices, radios, etc.) will be decontaminated with systems developed under the Joint Service Sensitive Equipment Decontamination (JSSED) program.

- **c. Ships.** Ships are considered to be areas not associated with flight deck operations on carriers and amphibious warfare ships, cruisers, destroyers, frigates, light forces, mine forces, and selected auxiliary support ships and craft. In the future, if required for Naval Sea Systems Command (NAVSEA) applications, it is anticipated that the man portable JSFDS for aircraft carrier flight operations will also be used to decontaminate select exterior surfaces and movable or fixed equipment located on these surfaces, shipboard personnel, interior spaces, accompanying personnel, and equipment.
- **d. Facilities.** Facilities are considered to be ports, piers, Naval Bases, Naval Construction Forces, logistics sites, warehouses, containerized facilities, ordnance sites, forward arming and refueling points, and airfields. It is anticipated that the JSFDS used by the Marine Corps and Air Force facilities groups will meet the requirements for the Naval Facilities (NAVFAC) applications.
- 2. Physical Description. Preliminary studies indicate that the majority of decontamination requirements can be met by multiple decontaminates. Block I decontaminates will be in powder or liquid form. Block II applicators have been broken down into fixed, mobile, and man portable, and the containment systems. The fixed system is expected to be a large-scale system that will be used to apply decontaminants to large vehicles (trucks, planes, etc.). The Navy is not buying the fixed site and, as such, the requirements will not be addressed in this NTSP. The mobile system is expected to be used to apply decontaminants on medium to large mobile or fixed equipment (cranes, High Mobility Multipurpose Wheeled Vehicle (HMMWV), etc.), facilities (buildings, shelters, etc.), and areas (loading dock, airstrip, etc.). The man portable system will be used primarily to apply decontaminants on small to medium equipment. The Block III SDK physical description has not been determined and will be included in updates to this document when available.
- **3. New Development Introduction.** JSFDS is a modernization retrofit and the introduction of a new capability.
 - **4. Significant Interfaces.** JSFDS will complement the JSSED System.
- **5.** New Features, Configurations, or Material. JSFDS will use the latest technology to include the use of robotics and automation.

H. CONCEPTS

1. Operational Concept. The JSFDS will be employed on the integrated battlefield as a means to remove, neutralize, or eliminate NBC/TIM hazards posing threats to military operations. JSFDS will be employed independently or in conjunction with conventional decontamination

elements in the Marine Corps, Army, Air Force, and Navy in both tactical and peacetime environments.

2. Maintenance Concept

- **Block 1, Option 1.** When down-selection of candidates occurs there are two possible scenarios. One will be the selection of a decontaminant only. This decontaminant will be used with existing applicators. If this is the case there will be minimal impact on maintenance with no requirements. However, it may lesson some of the storage and handling requirements if the decontaminate is less corrosive and environmentally friendly.
- **Block 1, Option 2.** If the down-selected candidate comes with an integral applicator, based on current analysis the effect on maintenance is anticipated to be minimal. However, this may change when the contract for Block I is awarded and the complexity of the applicator is known.
- **Block II.** Block II will provide the warfighter with the applicator and/or containment systems capable of dispensing the Block I family of decontaminants while controlling and/or containing hazardous run-off. The RFP has not been awarded for Block II and the impact on maintenance is difficult to state based on the number of options being considered. Based on current knowledge it is anticipated that there may be significant impact to all logistics elements.
- **Block III.** This is a COTS/NDI buy that will acquire a replacement for the existing M291 SDK. It is anticipated that the replacement will be safer for personnel to use and present no new maintenance requirements.

a. Organizational

- **Block I, Option 1.** No impact is anticipated. Periodic inspection of containers will be required but should not be significantly different from current decontaminants.
- **Block 1, Option 2.** Depending on the complexity of the integral applications, the organizational maintenance may range from a throwaway item to simple inspection criteria.
- **Block II.** This block presents a challenge in defining requirements. An analysis will be conducted to identify the requirements once the contract has been awarded.
- **Block III.** Based on the existing knowledge of this product, it is anticipated that the maintenance tasks will be similar to the current SDK.

(1) Preventive Maintenance

Block I. Preventive Maintenance (PM) will be accomplished in accordance with the technical documentation provided by the contractor.

Block II. PM will be determined by a Supportability Analysis.

Block III. PM is anticipated to be replacement of shelf-life items.

(2) Corrective Maintenance

Block I, Option 1. No Corrective Maintenance (CM) should be required.

Block 1, Option 2. CM will be accomplished in accordance with the technical documentation provided by the contractor.

Block II. Maintenance tasks are To Be Determined (TBD).

Block III. PM is anticipated to be replacement of shelf-life items.

- **b. Intermediate (All Blocks).** No change is expected to current maintenance procedures.
- **c. Depot** (All Blocks). Depot level repair of hardware components will only be undertaken if it is economically feasible. If economically feasible, there will be one depot for all services as determined by the Logistics Management Information (LMI) process.
- **d. Interim Maintenance** (**All Blocks**). A provisioning conference team will be established using the Logistic Integrated Project Team (LIPT) and contractor personnel. The provisioning team will schedule provisioning, data reviews, and document joint replacement and/or repair parts selection. The Supportability Analysis process will identify all maintenance levels, maintenance tasks, times, personnel requirements, and spare and repair parts to support all services. A single item manager will be selected by the LIPT, and each other service will assign a secondary item manager.
- **e.** Life Cycle Maintenance Plan. A 10-year life cycle is assumed for each block once the first production articles are introduced.
- **3. Manning Concept.** Chemical Biological Defense (CBD) is similar to other programs such as firefighting and damage control, in that it is an all hands evolution to protect and preserve the warfighting capabilities of the command. However, within each command certain individuals or groups of individuals are given the primary responsibility to operate or maintain specific pieces of CBD equipment. Damage Controlmen (DC), Aviation Boatswain's Mate (Aircraft Handler) (ABH), Hull Maintenance Technician (HT), and the damage control organization are the principal participants in the preparation (maintenance and training) and employment of the Chemical, Biological, and Radiological-Defense (CBR-D) systems and procedures. Hospital Corpsmen (HM) will also be involved in all evolutions.

- **a. Mean Time Between Scheduled Maintenance.** For Block II, the Operational Requirements Document objective for the Mean Time Between Scheduled Maintenance is 720 hours, with a 30-minute objective for Mean Time To Repair.
- **b. Proposed Utilization.** For Block II, the objective for Mean Time Between Operational Mission Failure is not less than 2160 operating hours. Equipment required for mission essential functions will be hardened to ensure degradation of not more than 20 percent will occur over a 30-day period, with 5 exposures to NBC/TIM contaminants, decontaminants, and standard decontamination procedures.
- **4. Training Concept.** The Navy does not have a Navy Enlisted Classification (NEC) for NBC operators or maintainers, but relies on personnel with collateral duty assignments. DCs ABHs will be tasked as operators. Trained squadron maintenance personnel will perform aircraft and support equipment decontamination. Trained Seabee Battalion Contamination control and maintenance personnel would perform Table of Allowance equipment decontamination. No specific Seabee ratings should be assigned or designated since positions are augmented due to availability.
- **a. Initial Training.** Instructor and Key Personnel Training will be required six months prior to Initial Operational Capability (IOC) for each block. This lead time will provide sufficient time to develop or modify training courses.

New Equipment Training (NET) will be required when fielding JSFDS. Resource constraints may preclude the use of face-to-face NET teams when JSFDS is fielded. Therefore, training materials, lesson plans, Interactive Media Instruction (IMI), Distance Learning (DL), or Computer-Based Training (CBT) may be the primary source of personnel and supervisor training.

- **Block 1, Option 1.** When down-selection of candidates occurs there are two possible scenarios. One will be the selection of a decontaminant only to be used with existing applicators. If this is the case there will be minimal impact on manpower and training and only difference training will be required.
- **Block 1, Option 2.** If the down-selected candidate comes with an integral applicator, based on current analysis the effect on manpower and training is anticipated to be minimal. However, this may change when the contract for Block I is awarded and the complexity of the applicator is known.
- **Block II.** Block II will require training for operators and maintainers. Once the applicators are defined, a final determination can be made for operators and maintainers. It is anticipated that DC, HT, and ABH personnel will be operators and Aviation Support Equipment Technicians (AS) will maintain the man portable applicator. The technical description for mobile and fixed site applicators is very limited. As the program develops and the requirements are better defined the specific operator and maintainer requirements can be determined, and will include Seabee Battalions.

Block III. Block III will be the personnel and/or casualty decontamination system that will replace or enhance the capabilities of the M291 SDK currently in use. Block III will require no additional training.

Title JSFDS Initial Training

Description This introductory course provides training for instructors

and key personnel in the operations and maintenance of the

JSFDS systems.

Location Contractor facilities

Length TBD (Depends on block and complexity of down-selected

item.)

RFT date Fourth quarter FY02

TTE/TD TBD

Prerequisites None

b. Follow-on Training. JSFDS follow-on training will augment the training provided during installation and fielding, and will provide a continued source of training to support new operators as well as those previously trained who are transferred to other assignments.

Basic CBR-D training (personal and survival skills) is provided to all enlisted personnel in the enlisted accession courses at Recruit Training Centers and to officers in the Surface Warfare Officer Division Officer School (SWOS) Courses.

Officer training at the SWOS, Newport, Rhode Island, will require modification. SWOS teaches Damage Control, Disaster Preparedness, and Repair Party Leader courses that include Chemical, Biological, and Radiological (CBR) attack. Shore-based officers can receive the same type training in course *A-494-0006*, *Disaster Preparedness Operations and Training Specialist*, located at Fort Leonard Wood, Missouri. The Navy Officer Billet Codes (NOBC) 2715 Disaster Preparedness Officer and/or 2765 NBC Defense Officer are awarded after completion of these courses.

All live agent CBR-D training is conducted at the Navy Construction Training Center Detachment (NCTC DET), Fort Leonard Wood. The NCTC DET provides training in the detection, identification, and decontamination of live chemical agents, and permits personnel dressed in CBR-D protective gear to conduct operational functions during live chemical conditions. The training facility is owned by the Army but has a Memorandum Of Understanding with the Navy to train Naval personnel in live chemical warfare conditions.

(1) Operator (All Blocks). Revisions to existing courses will incorporate JSFDS requirements. Navy operator familiarity training will be conducted at the DC "A" school

at Naval Training Center, Great Lakes, Illinois. Navy operator and limited maintenance training will also be incorporated into two separate courses both taught at Fort Leonard Wood. Course *A-495-2062, Shipboard Chemical Biological Radiological-Defense (CBR-D) Operations and Training Specialist*, awards NEC 4805. It is recommended that ABH be added to the source rating for this course. If ABHs attend this course they can assist in the shipboard training and start the preparation of CBR-D training during pre-deployment work-ups. Course *A-494-0006*, *Disaster Preparedness Operations and Training Specialist*, awards NEC 9598. Training for enlisted aviation personnel and civilians will be conducted at various other school locations as determined.

Title	Disaster Preparedness Operations and Training		
CIN	A-494-0006		
Model Manager	Naval Construction Training Center Detachment		
Description	This course provides training to officers, civilians, and enlisted personnel having responsibility for disaster preparedness, including:		
	 Disaster Preparedness Plan Organization and Responsibilities 		
	° Disaster Preparedness Plan and Supporting Document Preparation		
	° Peacetime Response and Recovery Requirements for Major Accidents and Disasters		
	° Wartime Protection		
	° Response and Recovery Operations		
	° Detection, Protection, and Decontamination due to Nuclear, Biological, and Chemical Contamination		
	° Chemical Warfare Defense Operations		
	 Associated Reports, Related Administrative and Supervisory Requirements 		
	o Installation Information and Training Program and Inspection Program, to include Program Analysis Pertinent to Disaster Preparedness		
	Upon completion, the student will be able to perform the duties of a Disaster Preparedness Operator on an installation (to include a squadron environment) under limited supervision.		
Location	Naval Construction Training Center Detachment, Fort Leonard Wood		
Length	26 days (160 hours)		
RFT date	Currently available		

Skill identifier ° NOBC 2715/2765

° NEC 9598

TTE/TD TBD

Prerequisites ° Officer personnel (O-1 through O-3)

° Enlisted personnel (E-5 through E-8), open to all ratings

° Must meet the OPNAVINST 6110.1 series physical fitness requirements

° Must bring optical inserts for MCU-2P Mask or be able to see 20/40 (near or distant) or better in one eye

° Pregnant members are not allowed to attend this course due to the nature of training

Title Shipboard Chemical, Biological, and Radiological Defense Operations and Training Specialist

CIN A-495-2062

Model Manager .. Naval Construction Training Center Detachment

Description This course provides CBR-D training to enlisted personnel with source rating DC, HT, or HM, including:

° Practical Training for Chemical/Biological Agents

° Instrument/Operational Aspects

° Chemical and Biological Decontamination and Survey Operations

 Practical Training with Radiac Instruments and Operational Aspects

° Radiation Surveys

° Calculations and Decontamination

° Instructor Fundamentals

Upon completion, the student will be prepared to conduct CBR-D training at Training Commands and aboard ship for CBR-D, and advise on integration of CBR-D operations in a squadron environment under limited supervision.

Location Naval Construction Training Center Detachment, Fort

Leonard Wood

RFT date Currently available

Skill identifier NEC 4805

TTE/TD TBD

Prerequisites ° Officer Personnel (O-1 through O-3)

- ° Enlisted personnel (E-5 through E-9)
- ° Source ratings DC, HT, and HM
- ° Must meet the OPNAVINST 6110.1 series physical fitness requirements
- ° Must bring optical inserts for MCU-2P Mask or be able to see 20/40 (near or distant) or better in one eye
- ° Pregnant members are not allowed to attend this course due to the nature of training

Title Damage Control Repair Party Leader

CIN K-495-0040

Model Manager .. Fleet Training Center San Diego

Description This course provides training to enlisted personnel in advanced damage control theory and techniques as required for assignment to Repair Party Leader billets aboard a surface ship. This training is group-paced classroom and practical, presented in two parts. Phase I,

Damage Control Fundamentals/Systems, includes:

- ° Preliminary Actions Before Damage Occurs
- ° Minimize and Localize Damage After Occurrence
- ° Damage Control Equipment and Systems
- ° Emergency Repairs to Control Fires and Flooding and to Preserve Ship's Stability and Buoyancy

Phase II, Chemical, Biological, and Radiological Defense, includes:

- ° Technical Aspects and Practical Applications of Chemical and Biological Defense
- ° Individual Protective Clothing and Equipment
- Shipboard Decontamination and Chemical Agent Detection
- ° Nuclear Defense

Upon completion, the student will be able manage repair party personnel in casualty situations under all shipboard readiness conditions under supervision. Location ° Mine Warfare Training Center, Ingleside, Texas

° Fleet Training Center, San Diego, California

° Fleet Training Center, Mayport, Florida

° Fleet Training Center, Norfolk, Virginia

° Afloat Training Group (ATG) Middle Pacific (MIDPAC), Pearl Harbor, Hawaii

12 days Length

RFT date Currently available

Skill identifier None

TTE/TD **TBD**

Prerequisites ° Paygrades E-5 and above

> ° Completion of Personnel Qualification Standard for Basis Damage Control, NAVEDTRA 43119G (series)

° Advanced Damage Control Emergency Parties 100 and 200 Sections, NAVEDTRA 43119G

° Medical screening by parent command

Title **Surface Warfare Officer Damage Control Assistant**

CIN A-4G-0020

Model Manager .. Surface Warfare Officers School Command

This course provides training to Warrant, Line Officers, Description and Senior Enlisted personnel for assignment to the

Damage Control Assistant billet aboard a surface ship,

including:

° Repair Division Administration and Responsibilities

° Damage Control Administration and Training

° Damage Control Equipment and Systems

° Damage Control Petty Officer Program Requirements, Equipment, and Maintenance Procedures

° Stability and Buoyancy

° Battle Damage Evaluation and Containment Techniques

° Chemical, Biological, and Radiological Defense Management

° Gas Free Engineering

Upon completion, the student will be able perform as a Surface Warfare Officer Damage Control Assistant aboard a surface ship without supervision.

Location Surface Warfare Officers School Command

Length 47 days

RFT date Currently available

Skill identifier NOBC 9308

TTE/TD TBD

Prerequisites Medical screening for Advanced Shipboard Fire Fighting

(J-494-0419)

Title Repair Party Leader/Damage Control Short Course

CIN A-4H-0155

Model Manager .. Surface Warfare Officers School Command

Description This course provides training to Line Officers with training

required for assignment to the Repair Party Leader billet

aboard a surface ship, including:

° Damage Control Repair Locker Administration and Training

- ° Damage Control Equipment and Systems
- ° Stability and Buoyancy
- ° Battle Damage Evaluation and Containment Techniques
- ° Chemical, Biological, and Radiological Defense Procedures and Techniques

Upon completion, the student will be able perform as a Repair Party Leader aboard a surface ship without supervision.

Location Surface Warfare Officers School Command

Length 15 days

RFT date Currently available

Skill identifier None

TTE/TD TBD

Prerequisites ° 4J-0154, SWO Core Phase I

° Surface Warfare Officer Core Phase II Basic (Platform)

(2) **Maintenance.** Revisions to existing courses will incorporate JSFDS requirements. If the down-selected items are similar to the existing man portable applicator, the tasks are currently taught in course *E-602-7090*, (*Afloat*) Support Equipment Internal

Combustion Engines and Related Systems Intermediate Maintenance. The mobile applicator system is yet to be defined; therefore, the maintenance requirements are not included in this NTSP, but will be added in updates.

All current organizational level maintenance courses are in the process of integrating CBT with its basic elements of Computer-Managed Instruction (CMI), Computer-Aided Instruction (CAI), Interactive Courseware (ICW), and Aviation Maintenance Training Continuum System (AMTCS) Electronic Modules into their curricula for classroom presentation and management.

Title (Afloat) Support Equipment Internal Combustion

Engines and Related Systems Intermediate

Maintenance

CIN E-602-7090

Model Manager ... NAMTRAU North Island

Description This course provides training to the first tour Aviation

Support Equipment Technician, including:

° Maintenance and Administration Duties

° Technical Publications and Forms

° AC and DC Power Generating and Motor Driven Equipment

° Internal Combustion and Gas Turbine Engine Operating Principles

° Construction, Mechanical, and Electrical Systems

° Chassis and Brake Systems

° Power Train Theory

° Hydraulic and Air Conditioning Fundamentals and Maintenance

Upon completion, the student will be able to perform duties as a Support Equipment Technician under supervision.

The student will continue in the training track to earn NEC

7618, Afloat Support Equipment Technician.

Location NATTC Pensacola

Length 114 days

RFT date Currently available

Skill identifier...... NEC 7618

TTE/TD..... TBD

Prerequisite....... C-602-2026, Aviation Support Equipment Technician

Class A1

c. Student Profiles. There is no prerequisite skill required for Navy operators. CBR-D is a collateral duty.

SKILL	PREREQUISITE SKILL AND
IDENTIFIER	KNOWLEDGE REQUIREMENTS
AS 7618	C-602-2026 Aviation Support Equipment Technician Class A1

d. Training Pipelines. The following training track applies and is available in the OPNAV Training Management System.

TRACK NUMBER	TRACK TITLE
D/E-602-7090	(Afloat) Support Equipment Internal Combustion Engines and Related Systems Intermediate Maintenance

I. ONBOARD (IN-SERVICE) TRAINING

- 1. Proficiency or Other Training Organic to the New Development
- **a. Maintenance Training Improvement Program.** Current planning is to adopt the AMTCS concepts to replace Maintenance Training Improvement Program (MTIP). AMTCS is scheduled to begin full implementation for fleet deployment in FY03. AMTCS is an on-going effort.
- **b.** Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS concepts will provide an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. Where appropriate, capitalizing on technological advances and integrating systems and processes can provide the right amount of training at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: IMI for the technicians in the Fleet in the form of ICW with CMI and CAI for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module, which provides testing [Test and Evaluation], recording [Electronic Certification Qualification Records], and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List data bank.

These tools are procured and fielded with appropriate COTS hardware and software, i.e., Fleet Training Devices - Laptops, Personal Computers (PC), Electronic Classrooms, Learning Resource Centers (LRC), operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N789H), AMTCS concepts are to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and Maintenance Training Management and Evaluation Program (MATMEP).

c. Shipboard Training. Shipboard training is conducted by Unit Training Teams composed of shipboard personnel. These teams conduct training to establish and maintain proficiency, both as a unit and within multiple unit groups in all mission areas. For Commander Naval Surface Forces Atlantic (COMNAVSURFLANT) and Commander Naval Surface Forces Pacific (COMNAVSURFPAC) (per COMNAVSURFLANT / COMNAVSURFPACINST 3502.2B), shipboard training typically begins with basic training after an inter-deployment overhaul availability. Initially, the ATG conducts training for the shipboard training teams, including all shipboard DC training, including the Damage Control Training Team (DCTT). The DCTT is responsible for coordinating and conducting all shipboard damage control training, including CBR-D training. The shipboard training teams then conduct the Command Assessment of Readiness and Training (CART) and the subsequent Tailored Ship Training Availability's (TSTA) to prepare the ship for the Final Evaluation Period (FEP) required prior to group exercises leading to deployment. The ISIC and the unit evaluate this portion of the training cycle with the ATG coordinating training support services and assisting in planning, observation, and evaluation.

The unit conducts intermediate training with its assigned deployment group to prepare for Composite Training Unit Exercises (COMPUEX) prior to deployment.

During deployment the unit participates in advanced training leading to fleet exercises, and conducts repetitive training to sustain operational effectiveness.

CBR-D drills and exercises throughout the training cycle are planned and carried out with the support of senior qualified CBR-D personnel (NEC 4805, 4811) or the DCTT. Course *A-495-2062*, *CBR-D Operations and Training Specialist*, is designed to train these personnel to plan, manage, and conduct onboard training.

At the beginning of the training cycle, the DCTT is trained by the ATG. The ATG requires current information on new development systems and equipment in order to conduct training as these systems are outfitted and installed. Plans to provide ATG with current information are addressed for each new development.

2. Personnel Qualification Standards. TBD

3. Other Onboard or In-Service Training Packages. The Shipboard Training Enhancement Program (STEP) encompasses all shipboard training packages and is established to

provide coordinated, systematic, and central determination of training requirements as well as development, distribution, maintenance, and life cycle support of STEP training materials. STEP is established by OPNAV N869 and is defined in OPNAVINST 1540.55. A major thrust of STEP is to produce and distribute multimedia and ICW in Compact Disc-Read Only Memory (CD-ROM) format. The STEP CD-ROM training packages are utilized at shipboard Learning Resource Multimedia Centers (LRMC), which include at least one CD-ROM equipped multimedia PC. STEP ICW for new systems and equipment is funded by the developing activity and procured by the Naval Sea Command. The STEP material is copied and distributed by CNET. The CD-ROMs for CBR-D will need revision.

J. LOGISTICS SUPPORT

- 1. Manufacturer and Contract Numbers. TBD
- **2. Program Documentation.** A draft Joint Integrated Logistics Support Plan (JILSP) dated 3 May 2001, a draft Joint Operational Requirements Document (JORD) dated 1 June 2000, and a Test and Evaluation Mater Plan (TEMP) dated April 2001 are available.
- **3. Technical Data Plan.** New Technical Manuals, Maintenance Requirements Cards (MRC), Maintenance Index Pages (MIP), Planned Maintenance System (PMS), or plans will be required for applicator systems and new SDKs.
- **4. Test Sets, Tools, and Test Equipment.** The JSFDS will maximize the use of existing Test, Measurement, and Diagnostic Equipment. Tools for all echelons of authorized maintenance will be available in the Department of Defense (DoD) inventory. If special support equipment or tools are necessary above the organizational level, the requirements will be identified and defined during the Engineering and Manufacturing Phase and the special equipment will be procured in the Production Phase.
- **5. Repair Parts.** It is assumed that none of the Block I and II procurement items will be consumed in training or in a peacetime scenario. The contingency for two Military Theatres of War is assumed sufficient to cover any minor sparing requirements.
- **6. Human Systems Integration.** The Human Systems Integration (HSI) Plan establishes the basis for effective integration of human factors engineering, manpower, personnel, training, health hazards, and safety considerations into the acquisition of the new development. The Executive Agent for the Naval Aviation System Team for all Naval Aviation Manpower, Personnel, and Training is Program Manager, Air (PMA) 205. The scope of PMA205's responsibilities includes identifying, planning for, and documenting training support resource requirements. Manpower, personnel, and training requirements will be determined in accordance with OPNAVINST 1500.76 and validated in the J-STRAP.
- **K. SCHEDULES.** The Navy will require 2,580,000 gallons of decontaminants to replace current stockpiles. The Navy requirement for Block II applicators is 853 man portable and 242

mobile with 242 containment systems. The Navy has not identified a need for fixed site systems. A total of 225,000 SDKs are required for Block III.

- 1. Installation and Delivery Schedules. The JSFDS is still in the concept development phase and, therefore, no final installation or delivery schedules have been established.
- **2. Ready For Operational Use Schedule.** Planned dates for Initial Operational Capability (IOC) and Full Operational Capability (FOC) are as follows:

BLOCK	IOC
I	4 th Qtr FY04
II	4 th Qtr FY05
III	4 th Qtr FY07

- 3. Time Required to Install at Operational Sites. Not Applicable (NA)
- 4. Foreign Military Sales and Other Source Delivery Schedule. NA
- 5. Training Device and Technical Training Equipment Delivery Schedule. TBD

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Tailored Executive Analysis for Joint Service Fixed Site Decontamination System	Not Assigned	Marine Corps Systems Command	Draft Apr 00
Performance Specifications for Joint Service Fixed Site Decontamination System	Not Assigned	Marine Corps Systems Command	Draft May 00
Test and Evaluation Master Plan for Joint Service Fixed Site Decontamination System	Not Assigned	Marine Corps Systems Command	April 01 (Milestone B)

DOCUMENT	DOCUMENT OR	PDA	STATUS
OR NTSP TITLE	NTSP NUMBER	CODE	
Joint Integrated Logistic Support Plan	Not Assigned	Marine Corps	Draft
for Joint Service Fixed Site		Systems	Seventh Update
Decontamination System		Command	May 01
Life Cycle Cost Estimate for Joint Service Fixed Site Decontamination System	Not Assigned	Marine Corps System Command	Draft (Milestone I)

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