

DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

AGM-65E LASER MAVERICK MISSILE

N88-NTSP-A-50-8201C/D

MAY 1998

Enclosure (1)

AGM-65E LASER MAVERICK MISSILE

EXECUTIVE SUMMARY

The U.S. Air Force is the Executive Service for development of the AGM-65 Maverick Missile System series. In June 1975, the Air Force began engineering development of the Air Force Laser Maverick, AGM-65D, and in October 1977 the Navy started development of the Navy AGM-65E Laser Maverick utilizing a modified laser seeker from the Air Force AGM-65C. The AGM-65E Laser Maverick Missile is currently in the Operational Support Phase of the Weapon System Acquisition Process.

The AGM-65E Laser Maverick Missile is designed primarily for use against armor and hardened ground targets requiring instantaneous or delayed blast fuzing during day or night operations and in adverse weather conditions, with sufficient standoff range to permit limited exposures to terminal defenses. The Laser Maverick does not replace any weapons in the current inventory.

The Laser Maverick does not affect current manning levels or existing Navy Enlisted Classification codes and Marine Corps Military Occupational Specialties. Manpower requirements at the organizational, intermediate, and depot level maintenance activities are based upon total workload requirements for a specific work center, and the skills needed to perform maintenance on the systems supported by that work center.

The Laser Maverick operator training is provided at the appropriate Fleet Readiness Squadrons for F/A-18 pilot and Weapons System Officer personnel, and for AV-8B pilots. Organizational level maintenance training is provided to aviation ordnance personnel in the F/A-18 community, and in the AV-8B community at the appropriate Naval Air Maintenance Training Group (NAMTRAGRU) Detachment. Additional training is available at the Strike Fighter Weapons Schools for aircrew and organizational level ordnance personnel. Intermediate level training is provided to Navy and Marine Corps aviation ordnance personnel at the appropriate NAMTRAGRU Detachment.

AGM-65E LASER MAVERICK MISSILE

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LIST OF ACRONYMS

AGM	Air-to-Ground Missile
AIMD	Aircraft Intermediate Maintenance Department
AMIST	Aviation Maintenance In-Service Training
AMTCS	Aviation Maintenance Training Continuum System
AO	Aviation Ordnanceman
AUR	All-Up-Round
BUPERS	Bureau of Naval Personnel
CANTRAC	Catalog of Navy Training Courses
CAS	Center-Aft Section
CATM	Captive Air Training Missile
CIN	Course Identification Number
CINCLANTFLT	Commander in Chief, Atlantic Fleet
CINCPACFLT	Commander in Chief, Pacific Fleet
CMC	Commandant of the Marine Corps
CNET	Chief, Naval Education and Training
CNO	Chief of Naval Operations
COMOPTVFOR	Commander, Operational Test and Evaluation Force
CWTPI	Conventional Weapons Technical Proficiency Inspection
DA	Developing Agency
DATM	Dummy Air Training Missile
DOP	Designated Overhaul Point
DMSO	Director of Major Staff Office
DT&E	Development, Test, and Evaluation
EOD	Explosive Ordnance Disposal
EODTEU	Explosive Ordnance Disposal Training and Evaluation Unit
FMS	Foreign Military Sales
FRS	Fleet Readiness Squadron
FREST	Fleet Replacement Enlisted Skills Training
FY	Fiscal Year
GCS	Guidance and Control Section
HAS	Hydraulic Actuation System
ILSP	Integrated Logistics Support Plan
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management Evaluation Program
MAW	Maverick Alternate Warhead

LIST OF ACRONYMS (Continued)

MCAS	Marine Corps Air Station
MCCDC	Marine Corps Combat Development Command
META	Maverick Engagement Training Aid
MOS	Military Occupational Specialty
MTU	Maintenance Training Unit
MTIP	Maintenance Training Improvement Program
NALC	Naval Ammunition Logistics Code
NAMTRAGRU	Naval Air Maintenance Training Group
NAS	Naval Air Station
NATSF	Naval Air Technical Services Facility
NATTC	Naval Air Technical Training Center
NAVAIRSYSCOM	Naval Air System Command
NAVSCOLEOD	Naval Explosive Ordnance Disposal School
NAVSURFWARCEN	Naval Surface Warfare Center
NAWMU	Naval Airborne Weapons Maintenance Unit
NAWCWD	Naval Air Warfare Center, Weapons Division
NEC	Navy Enlisted Classification
NFO	Naval Flight Officer
NTP	Navy Training Plan
NTSP	Navy Training System Plan
NWS	Naval Weapons Station
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Office
OT	Operational Testing
OTMS	OPNAV Training Management System
PDA	Principal Development Activity
PEO	Program Executive Officer
PEST	Practical Explosive Ordnance Disposal System Trainer
PMA	Program Manager, Air
PSP	Phased Support Plan
PTT	Part Task Trainer
RFI	Ready For Issue
RFT	Ready For Training
RSP	Render Safe Procedure
SFWS	Strike Fighter Weapons School
SRA	Shop Replaceable Assembly

LIST OF ACRONYMS (Continued)

TA	Training Agency
TACAIR	Tactical Aircraft
TD	Training Devices
TFS	Total Force Structure
TSA	Training Support Agency
TTE	Technical Training Equipment
WSO	Weapon System Officer

AGM-65E LASER MAVERICK MISSILE

PREFACE

This Draft Navy Training System Plan (NTSP) for the AGM-65E Laser Maverick Missile was prepared by the Naval Air Systems Command as part of the regular NTSP update process within guidelines set forth in OPNAVINST 1500.8M. This NTSP reflects the changes that have occurred since the approved Navy Training Plan (NTP), AGM-65E Laser Maverick Missile NTP dated 7 February 1989.

The major changes and updates to this NTSP consist of:

- PART I** This part shows the deletion of outdated information; incorporation of changes to formal training; updated Training Device allocation listings; identification of “A” School Core and Strand training; “C” School Initial and Career training; deletion and relocation of training sites due to decisions made by the Base Realignment Commission; and the impacts of Marine Corps Military Occupational Specialty consolidations.
- PART II** This part has been recalculated to depict current billet requirements of fleet support units through FY01.
- PART III** In addition to reflecting the changes mentioned above, this part has been recalculated to depict chargeable student billets through FY01.
- PART IV** This part has been updated to reflect changes in training and training logistics support requirements.
- PART V** This part has been updated to include major milestones.
- PART VI** This part identifies significant equipment shortfalls for intermediate maintenance course C-646-3105, Fleet Replacement Enlisted Skills Training (FREST).
- PART VII** This part has been updated to reflect current Points of Contact.

PART I - TECHNICAL PROGRAM DATA

A. TITLE-NOMENCLATURE-PROGRAM

1. Title-Nomenclature-Acronym. AGM-65E Laser Maverick Missile

2. Program Element. 0603313N, Appropriation Code 1507N42MV

B. SECURITY CLASSIFICATION. Security information for this program is contained in Air Force System Document AGM-65 Missile System, WS D/E/F/G Maverick Security Classification Guide for AGM-65 Missile System (WS-319 D/E/F/G) (Maverick) dated 1 August 1995.

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor..... CNO (N880D)

OPO Resource Sponsor CNO (N880D)

Marine Corps Program Sponsor..... CMC (APW-23)

Developing Agency (DA) PEO TACAIR (PMA242)

Training Agency (TA)..... CINCLANTFLT
CINCPACFLT
CNET
MCCDC

Training Support Agency (TSA)..... NAVAIRSYSCOM (PMA205)

Manpower and Personnel (M&P) Mission Sponsor CNO (N1)
BUPERS (PERS-4, -22)

Director of Naval Training CNO (N7)

Marine Corps Combat Development Command (MCCDC)

Manpower Management TFS Division

D. SYSTEM DESCRIPTION

1. Operational Uses. The AGM-65E Laser Maverick Missile, hereafter referred to as Laser Maverick, was designed primarily for destruction of hardened ground targets during day or night operations and in adverse weather conditions, with sufficient standoff range to permit limited exposures to terminal defenses. The Laser Maverick's host aircraft are F/A-18, and the AV-8B.

2. Foreign Military Sales. Italy is a Foreign Military Sales (FMS) participant, Case IT-D-YIF.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST

1. Development, Test, and Evaluation. The Development, Test, and Evaluation (DT&E) launch phase was completed in 1981. DT&E was conducted by Naval Air Warfare Center Weapons Division (NAWCWD), China Lake, California.

2. Operational Evaluation. Operational Test (OT) OT-IIA was successfully completed in August 1982. OT-IIB was successfully completed in August 1988. OT-IIA and OT-IIB were conducted by Commander, Operational Test and Evaluation Force (COMOPTEVFOR) and Air Test and Evaluation Squadron Five (VX-5) at NAWCWD, China Lake, California.

F. EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The Laser Maverick does not replace any existing missiles in the Navy or Marine Corps inventory. Aircraft modifications to incorporate Laser Maverick capability into the F/A-18, and AV-8B, aircraft have been completed.

G. DESCRIPTION OF NEW DEVELOPMENT. The U.S. Air Force is the executive service for development of the AGM-65 (series) Maverick Missile. In 1975, the AGM-65C Laser Maverick was developed when the AGM-65B was modified by replacing the electro-optical seeker with a laser seeker. In October 1977, in order to meet Navy and Marine Corps requirements, development of a Maverick Alternate Warhead (MAW) and a reduced smoke rocket motor with an out-of-line igniter was begun. The Navy and Marine Corps version of the missile, incorporating the MAW, the new rocket motor, and the laser seeker has been designated the AGM-65E Laser Maverick.

1. Functional Description. The Laser Maverick is an electrical optical guided, rocket-propelled, air-to-ground missile. After launch, the Laser Maverick provides automatic missile homing on coded laser energy reflecting from a target. The laser designator may be a ground device, either hand-held or tripod mounted; or it may be a stabilized airborne device, either on a separate aircraft or the launching aircraft. The Laser Maverick employs the MAW with a selectable delay fuze. The warhead is a kinetic energy penetrator and blast fragmentation warhead. The warhead fuze is initiated by a contact trigger and contains a fuze mechanism which

delays arming until safely separated from the launch aircraft. The warhead fuze contains a selectable fuze time delay feature which permits a choice of surface detonation or detonation after penetration.

The LAU-117/A(V)2/A guided missile launcher is designed to carry and launch the AGM-65 (series) Maverick Missile. The launcher is delivered to the organizational level mated to the Maverick missile.

The Navy uses the CNU-472/E fiberglass container to ship the Laser Maverick All-Up-Rounds (AURs) and CASs. The container is used to transport repairable AURs and CASs to and from the AUR depot and Designated Overhaul Point (DOP), place Ready For Issue (RFI) AURs in storage, or transport RFI AURs back to the fleet. Damaged containers are repaired at the AUR depots, the DOP, and Naval Weapons Station (NWS) Seal Beach.

2. Physical Description. The AGM-65E Missile consists of a modified Air Force AGM-65C Guidance and Control Section (GCS) and the Navy AGM-65 CAS. The AGM-65E contains no embedded software. The Laser Maverick is shipped as an AUR. The dimensions, weight, and major sections are described below:

Length	97.7 inches
Diameter	12.0 inches
Stabilizer Span	28.5 inches
Weight (Prelaunch)	649.0, +/-15 pounds
Weight (GCS).....	110.0 + 1.25 pounds
Center of Gravity	48.9 inches aft of nose

a. Guidance and Control Section. The GCS contains the laser seeker, interface electronics, and rate sensor assemblies and dome. This section provides for target detection, tracking and missile guidance. The Navy Laser GCS is capable of being interchanged on a one-for-one basis with the Infrared Maverick GCS without changes to the missile center-aft-section.

b. Center-Aft Section. The CAS is comprised of the main structure and wing assembly, the Safety Arming Device, warhead, fuzing and fuzing unit, rocket motor, and the Hydraulic Actuation System (HAS).

c. Launcher (LAU-117/A(V)2/A). The major dimensions and weight are described below:

Length	94.5 inches
Width.....	11.0 inches
Height.....	11.0 inches
Weight.....	130 pounds

3. New Development Introduction. The Laser Maverick was introduced as new production. Fleet introduction for the Laser Maverick on the AV-8B was granted in August 1990 and on the F/A-18 in October 1991.

4. Significant Interfaces. The Laser Maverick interfaces functionally and physically with the LAU-117/A(V)2/A Launcher and its associated test equipment. The launcher interfaces with the AV-8B, and F/A-18 aircraft for electrical power and two-way data transfer between missile and cockpit controls and displays, and provides signals to the missile during captive carriage and for launch. The launcher also provides for missile restraint during aircraft catapult launches, arrested landings, and inadvertent rocket motor ignition.

H. CONCEPTS

1. Operational Concept. The Laser Maverick is deployed by the flight crew.

2. Maintenance Concept. Maintenance of the Laser Maverick employed on various aircraft is accomplished using the basic maintenance philosophy outlined in OPNAVINST 4790.2 (Series), and specific weapons maintenance instructions outlined in OPNAVINST 8600.2 (Series).

a. Organizational Level. Organizational maintenance units receive an AUR mated to the launcher. Organizational maintenance is performed by Work Center 230 using Navy Aviation Ordnanceman (AO) personnel with Navy Enlisted Classification (NECs) 8342 and 8842, and Marine Corps personnel with Military Occupational Specialty (MOS) 6531. The AN/AWM-92 Aircraft Weapons Circuit Test Set is used at the organizational level to functionally test the aircraft weapons circuits prior to loading the Laser Maverick. The AN/AWM-54 Firing Circuit Test Set and W-30 Igniter Adapter are used at the organizational level to perform stray voltage tests on the launcher igniter connector. Organizational level maintenance tasks include:

- Visual inspection for damage and corrosion
- Visual inspection of missile launcher assembly interface
- Cleaning of external surface and corrosion control
- Aircraft Weapons Control System Check
- Uploading and downloading on aircraft
- Return launcher to Aircraft Intermediate Maintenance Department (AIMD) or Marine Aviation Logistics Squadron (MALS)

b. Intermediate Level. Intermediate Maintenance Activities' Weapons Departments (shipboard, Naval Air Station (NAS) and MALS) receive AURs from the NWS, Marine Corps Air Station (MCAS), or Naval Airborne Weapons Maintenance Unit (NAWMU) and launchers from the supply system or AIMD. Laser Maverick maintenance is performed by Weapons Department Navy AO personnel with NEC 6801 and Marine Corps personnel with MOS 6541. AIMD Work Center 710 Navy AO personnel with NECs 6802 and 6803 and USMC personnel with MOS 6541 functionally test the launcher using the AN/AWM-90 Launcher Test Set. Weapons Department intermediate level maintenance tasks include:

- Visual inspection for damage and corrosion
- Perform corrosion control procedures

- Lubricate missile hook
- De-canning and canning of AUR
- Mating and de-mating of missile with launcher
- Prepare AUR for shipping or storage
- Deliver missile and launcher assembly to organizational level
- Return AUR to NWS, NAWMU, or MCAS
- Return launcher to intermediate level AIMD
- Launcher test using AN/AWM-90 Test Launcher Set at AIMD or MALS

c. All-Up-Round Depot Level. NWS Seal Beach (Fallbrook Annex), California, NWS Yorktown, Virginia, and NAWMU One, Guam, are the depot level AUR maintenance activities. They are equipped with the TTU-519/E Guided Missile Test Set, the SMU-127/E Laser Target Simulator, and maintenance handling equipment. Launchers are not processed through the NWSs or NAWMU. Depot level AUR maintenance tasks include:

- Receipt inspection
- Visual inspection for damage and corrosion
- Cleaning of external surfaces
- Touch-up painting on external surfaces
- Lubricate missile hook
- De-canning and canning of AUR
- Repair of minor structural damage
- Fault isolation by AUR test to faulty section
- GCS or CAS removal and replacement
- Recertification of AUR by retest
- Send faulty section to DOP
- Servicing of HAS reservoir
- Removal and replacement of piston actuator cover, hatch cover, fuselage door, HAS, and ground pin

DOP maintenance is performed at the Ogden Air Logistics Center (OO-ALC), Hill Air Force Base, Utah, in accordance with Depot Maintenance Inter-service Support Agreement number OO-ALC910 ANHD. OO-ALC repairs components that are beyond the capabilities of the NWS or NAWMU. OO-ALC is responsible for maintenance required to restore defective sections and repairable Shop Replaceable Assemblies (SRAs) to original acceptance standards. This includes test, fault isolation, repair of repairables, removal and replacement of defective components and non-repairable assemblies, corrective action verifications testing, and providing maintenance data to the cognizant surveillance program activity. DOP maintenance for GCSs is performed at Letterkenny Army Depot, Chambersburg, Pennsylvania.

d. Interim Maintenance. The Laser Maverick has achieved full organic support. The Navy Support Date was January 1991.

e. Life-Cycle Maintenance Plan. NA.

3. Manning Concept. The Laser Maverick has no direct impact on existing manpower requirements at organizational, intermediate, or depot level activities. Pilot, Navy Flight Officer (NFO), and Weapon and Sensor Officer (WSO) manpower is driven by seat factor and crew ratio. Enlisted manning for USN and USMC fleet squadrons, Fleet Readiness Squadrons (FRS), and intermediate-level maintenance activities is based on the total assigned workload, not only on specific Laser Maverick requirements. Skills required to support the Laser Maverick are considered to be within the capability of existing NECs and MOSs. Refer to Part II for existing USN and USMC manpower requirements.

The Navy Squadron Training Matrices (COMNAVAIRPACINST 3500.67C/COMNAVAIRLANTINST 3500.63C) for the F/A-18 aircraft and the Marine Corps Aviation Training and Readiness Manual (MCO P3500.15B) for the F/A-18 and AV-8B aircraft were used to estimate peacetime manpower requirements for AGM-65E. These instructions/orders provide annual aircrew training requirements, which include events that involve captive carry and live fire of ordnance.

For USN F/A-18 squadrons, the only training events that involve the use of AGM-65E or CATM-65E are event number 41, WAG 19 Laser Maverick Captive Carry, and event number 58, WAG 36 Laser Maverick Shoot. For both events, the requirement is intended to provide laser missile qualification. The Laser Maverick Shoot is required once every ten years per aircrewman, while the Laser Maverick Captive Carry is required twelve times per year (six shots every 180 days) per aircrewman. Using a worst case of one sortie per Laser Maverick Captive Carry, and based on seventeen aircrewman per squadron, there is a possibility of 206 AGM-65E/CATM-65E loading/downloading cycles per F/A-18 squadron (204 Laser Maverick Captive Carry events plus 2 live shot events). Loading cycles include de-containerizing, transport, assembly, upload, download, disassembly, transport, and containerizing of the AGM-65E or CATM-65E. Thus five F/A-18 AOs (NEC 8342, or 8842) and three Weapons Department AOs (NEC 6801) are required to support annual AGM-65E/CATM-65E loading cycles per F/A-18 squadron, even though only a portion of their workload will be driven by AGM-65E.

For USMC F/A-18 squadrons, the only training events that involve the use of AGM-65E or CATM-65E are event number SWD-372 (for F/A-18A/C) and SWD-379 (for F/A-18D). For both events, the requirement is to employ a Laser Maverick against a surface target. Captive carry constitutes completion. Both SWD-372 and SWD-379 are required twelve times per year per aircrewman. Using a worst case of one sortie per Laser Maverick Captive Carry, and based on seventeen aircrewman per squadron, there is a possibility of 204 AGM-65E/CATM-65E loading/downloading cycles per F/A-18 squadron. Loading cycles include de-containerizing, transport, assembly, upload, download, disassembly, transport, and containerizing of the AGM-65E or CATM-65E. Thus five F/A-18 AOs (MOS 6531) and three MALS AOs (MOS 6541) are required to support annual AGM-65E/CATM-65E loading cycles per F/A-18 squadron, even though only a portion of their workload will be driven by AGM-65E.

A similar logic was applied to the USMC AV-8B aircraft. The result was the same as for the F/A-18 community. Five AV-8 AOs (MOS 6531) and three MALS AOs (6541) are required

to support annual AGM-65E/CATM-65E loading cycles per AV-8 squadron, even though only a portion of their workload will be driven by AGM-65E.

4. Training Concept. The Laser Maverick training concept is divided into organizational and intermediate level maintenance based on OPNAVINST 4790.2 (Series). Organizational level training is provided to operator and maintenance personnel. Operator training is provided for F/A-18 pilot and Weapons System Officer (WSO) personnel and for AV-8B pilots. Organizational level maintenance training is provided to AO personnel in the F/A-18 community with NECs 8342 and 8842 and MOS 6531 and in the AV-8B community with MOS 6531. Intermediate level training is provided to maintenance personnel with NECs 6801; and Marine Corps personnel with MOS 6541.

A new training concept for most aviation maintenance training has been established. This concept entails dividing "A" School courses into two or more segments called core and strand, and C1 courses into separate initial and career training courses. "A" School Core courses include general knowledge and skills training for the particular rating, while "A" School strand courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student's fleet activity destination. Strand training immediately follows core training and is part of the "A" School. Upon completion of core and strand "A" School, graduates attend the appropriate initial "C" school for additional specific training. Initial "C" school training is intended for students with a paygrade of E-4 and below. Career "C" school training is provided to personnel E-5 and above to enhance their skills and knowledge within their field.

a. Initial Training. All initial training has been completed. No further initial training is planned.

b. Follow-on Training. Follow-on training for the Laser Maverick is available as part of courses taught at Fleet Readiness Squadrons (FRSs), Maintenance Training Units (MTUs), Fleet Replacement Enlisted Skills Training (FREST) facilities, and Strike Fighter Weapons Schools (SFWSs). The Laser Maverick causes no change in student throughput or chargeable student billets. Follow-on training courses have all been modified to include the Laser Maverick and are currently on-line.

(1) Operator Training. Pilots and NFOs are trained at the appropriate FRS for specific aircraft operation. Operator skills in tactics and ordnance delivery are further enhanced at the SFWS and through on-board proficiency training. Training Devices (TDs) required for follow-on and proficiency operator training include the Part Task Trainer (PTT), the Captive Air Training Missile (CATM), and the Maverick Engagement Training Aid (META).

- **Part Task Trainer.** The PTT is a computer-based weapon system training device developed for use by F/A-18 aircrews. The PTT provides missile and operational procedures familiarization as well as proficiency training in launch and control techniques and will not take the place of formalized training.

- **Captive Air Training Missile.** The CATM is an inert, captive flight device permitting realistic exercise of the Laser Maverick. The CATM airborne operation provides direct comparison with actual weapon firings by simulation without expending the missile.
- **Maverick Engagement Training Aid.** The META is a computer-based, interactive training software package designed for fleet use to assist aircrews in acquiring the necessary understanding of the Laser Maverick and operational factors that affect weapon performance. The software currently runs on the Aviation Multi-function Electronic Warfare Trainer, and consists of a tutorial, an exercise generator, and an engagement scenario. The META is a low-cost alternative to live firing proficiency flights.

For detailed information on TDs and Training Aids refer to elements IV.A.2 and IV.B.2. The following table lists the applicable operator training courses. The Laser Maverick source material has been incorporated in these courses with minimal impact. The Laser Maverick causes no change in student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III.

COURSE NUMBER	COURSE TITLE	RFT DATE INCLUDING Laser MAVERICK
D/E-2A-0601	F/A-18 Fleet Replacement Pilot Cat 1	On-line
D/E-2A-0602	F/A-18 Fleet Replacement Pilot Cat 2A	On-line
D/E-2A-0604	F/A-18 Fleet Replacement Pilot Cat 3A	On-line
D/E-2A-0606	F/A-18 Fleet Replacement Pilot Cat 4	On-line
None (USMC)	F/A-18D Fleet Replacement Pilot Cat 1	On-line
None (USMC)	F/A-18D Fleet Replacement Pilot Cat 2	On-line
None (USMC)	F/A-18D Fleet Replacement Pilot Cat 3	On-line
None (USMC)	F/A-18D Fleet Replacement Pilot Cat 4	On-line
None (USMC)	F/A-18D (WSO) Cat 1	On-line
None (USMC)	F/A-18D (WSO) Cat 2	On-line
None (USMC)	F/A-18D (WSO) Cat 3	On-line
None (USMC)	F/A-18D (WSO) Cat 4	On-line
None (USMC)	AV-8B Pilot Basic	On-line
None (USMC)	AV-8B Pilot Transition	On-line
None (USMC)	AV-8B Pilot Conversion	On-line
None (USMC)	AV-8B Pilot Refresher	On-line

(2) Organizational Maintenance. Organizational level maintenance personnel are trained at the appropriate MTU and FREST for specific aircraft maintenance. Weapon loading skills are further enhanced at SFWS, and through on-board proficiency training. TDs required for follow-on and proficiency training include the CATM and the Dummy Air Training Missile (DATM).

- **Dummy Air Training Missile.** The DATM-65E/F is physically representative of the Laser Maverick. It is a training device to facilitate instruction and familiarization for transporting, handling, loading, and visual inspection procedures for organizational and intermediate level training purposes. The DATM is not certified for flight, and is designed for ground training use only.

For detailed information on TDs refer to element IV.A.2. The Laser Maverick System will be taught in “A” school and in the following organizational level maintenance training courses. The Laser Maverick source material has been incorporated in these courses with minimal impact. The Laser Maverick causes no change in student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III.

COURSE NUMBER	COURSE TITLE	TRACK NUMBER	RFT DATE INCLUDING Laser MAVERICK
C-646-9973	F/A-18 Stores Management System (Initial) Organizational Maintenance	D/E-646-0653 D/E-646-0654	On-line
C-646-9974	F/A-18 Stores Management System Organizational Maintenance (Career)	D/E-646-0641	On-line
D/E-646-0640	F/A-18 Conventional Weapons Loading	D/E-646-0653	On-line
D/E-646-0647	F/A-18 Conventional Release System Test	D/E-646-0653	On-line
C-646-9888	AV-8B Aircraft Ordnance Technician Integrated Organizational Maintenance	M-646-0143	On-line
C-646-3893	AV-8B Conventional Weapons Loading	M-646-0143	On-line

(3) Intermediate Maintenance. Intermediate maintenance training is available for Navy and Marine Corps Aviation Ordnance personnel through the appropriate MTU. The TD required for intermediate maintenance training is the DATM. For detailed information refer to element IV.A.2.

The following courses have been updated to include Laser Maverick data:

Title	Air Launched Guided Missiles Intermediate Maintenance
CIN	C-122-3111 (part of D/E-646-7007)
Model Manager...	MTU 4030, Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET) Mayport
Description	From Catalog of Navy Training Courses (CANTRAC): To provide ordnance personnel with knowledge of the Sparrow, Sidewinder, Phoenix, Sidearm, Shrike, Maverick, Harpoon, SLAM, HARM, Walleye, TALD, and Air Nitrogen Purifier Units.
Locations	MTU 4030, NAMTRAGRU DET, NAS Mayport, Florida

	MTU 4032, NAMTRAGRU DET, NAS Norfolk, Virginia
	MTU 4033, NAMTRAGRU DET, NAS North Island, California
Length	11 days
RFT date	Currently available
Source rating	AO
Skill identifier	6801 awarded upon completion of track D/E-646-7007
TTE/TD	DATM-65E/F
Prerequisite	AO A1 or equivalent
Title	Aviation Ordnance Intermediate Maintenance Technician
CIN	C-646-3105 (part of M-646-7026)
Model Manager...	VMAT-203
Description	From CANTRAC: To provide ordnance personnel with knowledge required by USMC personnel working on ordnance/armament in the AIMD environment.
Location	VMAT-203 FREST, MCAS Cherry Point, North Carolina
Length	93 days
RFT date	Currently available
Skill identifier	MOS 6541 awarded upon completion of track M-646-7026
TTE/TD	DATM-65E/F
Prerequisite	Security clearance: Confidential

NOTE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician, as part of track M-646-7026, is currently 93 days long. During the initial teaching of the course, the instructors from VMAT-203 identified areas where time could possibly be deleted from C-646-3105 without compromising the content of the course. The Instructional Systems Development Group, attached to VMAT-203, will evaluate this information and determine what will be deleted from C-646-3105. If this course is reduced in length, it will reduce average-on-board and chargeable student billet requirements. Updated information about this course will be included into this NTSP when the appropriate decisions are made available.

(4) Explosive Ordnance Disposal Training. Explosive Ordnance Disposal Training is conducted at Naval Surface Warfare Center (NAVSURFWARCEN), Indian Head, Maryland. The TD required for Explosive Ordnance Disposal (EOD) training is the Practical Explosive Ordnance Disposal System Trainer (PEST):

- **Practical Explosive Ordnance Disposal System Trainer.** The Laser Maverick PEST is a full scale model fabricated from actual hardware, having approximately the same weight and center of gravity as the tactical missile. The PEST is used for teaching Render Safe Procedures (RSP).

For further details on Training Devices see element IV.A.2. The following courses have been revised to include RSP and disposal of the Laser Maverick.

Title EOD Phase II (Navy)
 CIN A-431-0011
 Model Manager... Naval Explosive Ordnance Disposal School
 (NAVSCOLEOD)
 Description From CANTRAC: To provide training in the best methods
 and procedures for recovery, evaluation, and disposal of
 surface and underwater explosive ordnance, nuclear weapons,
 and diving techniques related to EOD.
 Location NAVSCOLEOD, NAVSURFWARCEN Indian Head,
 Maryland
 Length 213 days
 RFT date Currently available
 Source ratings Thirty-one source ratings listed in the NEC manual
 Skill identifiers .. NEC 5332, Navy Officer Billet Code 9230
 TTE/TD PEST
 Prerequisite Extensive; see CANTRAC for detailed listing.

Title EOD Phase II
 CIN A-431-0012
 Model Manager... NAVSCOLEOD, Indian Head
 Description From CANTRAC: To provide training in the best methods
 and procedures for safe identification, recovery, evaluation
 and disposal of all conventional surface explosive ordnance
 and nuclear ordnance.
 Location NAVSCOLEOD, NAVSURFWARCEN Indian Head
 Length 106 days
 RFT date Currently available
 Skill identifier MOS 2336
 TTE/TD PEST
 Prerequisite Extensive; see CANTRAC for detailed listing.

Title EOD Pre-deployment Team Training
 CIN G-431-0001
 Model Manager... EOD Technical Evaluation Unit (EODTEU) TWO

Description..... From CANTRAC: To provide advanced and specialized
 training for established EOD teams and training prior to
 deployment of shipboard EOD teams.
 Locations..... EODTEU ONE, Barbers Point, Hawaii
 EODTEU TWO, Fort Story, Virginia
 Length 31 days
 RFT date Currently available

Source rating General
 Skill identifier None
 TTE/TD See Part IV
 Prerequisite Extensive; see CANTRAC for detailed listing.

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AO 6801 or MOS 6541	C-646-2011, Aviation Ordnance “Class A1” School (Common Core) and C-646-2012, Aviation Ordnance “Class A1” School (Airwing Strand) or C-646-2013, Aviation Ordnance “Class A1” School (Weapons Department Strand)

d. Training Pipelines. The following training tracks apply and are available in the OPNAV Training Management System (OTMS):

TRACK NUMBER	TRACK TITLE
D/E-646-7007	Air Launched Guided Missiles Intermediate Maintenance
M-646-7026	Aviation Ordnance Technician Intermediate Maintenance

I. ON-BOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. The Maintenance Training Improvement Program (MTIP) will be used to establish an effective and efficient training system that is responsive to fleet training requirements. MTIP is the comprehensive testing of one's knowledge. It consists of a bank of test questions that are managed through automated data processing. The Deputy Chief of Staff for Training will assist in the development of MTIP by providing those question banks (software) already developed by the Navy. MTIP will be implemented in accordance with OPNAVINST 4790.2 (Series), and will be used to establish an effective and efficient training system that is responsive to fleet training requirements. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at both the organizational and intermediate levels of maintenance. MTIP will allow increased effectiveness in the application of training resources through identification of skills and knowledge deficiencies at the activity, work center, or individual technician level. Remedial training will be concentrated where needed to combat identified skill and knowledge shortfalls.

Aviation Maintenance In-Service Training (AMIST) is intended to support the Fleet training requirements now satisfied by MTIP, and in that sense is the planned replacement. However, it is structured very differently, and will function as an integral part of the new Aviation Maintenance Training Continuum System (AMTCS) that will replace the existing aviation maintenance training structure. AMIST will provide standardized instruction to bridge the training gaps between initial and career training. With the implementation of AMIST, the technician will be provided the training required to maintain a level of proficiency necessary to effectively perform the required tasks to reflect a career progression.

AMTCS redesigns the aviation training process (training continuum), and introduces Computer-Based Training (CBT) throughout the Navy technical training process. The application and adoption of recent advances in computer hardware and software technology have enabled Computer-Based Training with its basic elements of Computer Managed Instruction (CMI), Computer Aided Instruction (CAI), and Interactive Courseware (ICW) to be integrated into the training continuum and provide essential support for standardizing technical training.

Pilot and NFO weapons proficiency training is accomplished in three steps: Academic, Simulator, and Captive Carry:

- **Academic.** Selected squadron aircrewmembers receive in depth classroom weapon training from an appropriate source (contractor, weapons school, etc.) to become the squadron subject matter expert on the selected weapon. The subject matter expert then returns to the squadron and holds academic training with the squadron aircrew. As an option to this step, all the squadron's aircrew would attend an academic class held at the appropriate weapons school to fulfill the academic requirement.
- **Simulator.** The appropriate weapons tactical trainer is set up by the squadron for the aircrewmembers to gain required proficiency prior to captive carry of the selected weapon.
- **Captive Carry.** The selected training weapon is loaded on an aircraft at which time the aircrewmembers will gain proficiency and final qualification on the selected weapon.

2. Personnel Qualification Standards. NA.

3. Other On-Board or In-service Training Packages. Marine Corps on-board training is based on the current series of MCO P4790.12, Individual Training Standards System and Maintenance Training Management Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 (Series), maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be addressed with remedial training.

The Conventional Weapon Technical Proficiency Inspection. (CWTPI) is a graded inspection administered by either Strike Fighter Weapons School Pacific or Atlantic. The CWTPI covers all areas of conventional weapon load and release, and control systems checks. The inspection evaluates the squadron's ability to correctly wire-check, upload & download conventional ordnance, use applicable publications, and place ordnance on its designated target. The squadron inspection is conducted annually, six months prior to deployment, or at the request of the squadron's Commanding Officer. A written examination is required by all personnel, including squadron pilots, directly involved in the inspection. There is a 72 hour time limit is granted for the completion of the entire evolution. The final grade is an average score derived from the written exams, ordnance loads, wire checks, and the pilots proficiency to deliver weapons on target. Pre-inspection training is provided by the appropriate SFWS followed by the CWTPI. The CWTPI determines the need for further conventional weapons load training of squadron AO and Aviation Electronics Technician personnel at the appropriate SFWS.

The USMC fighter and attack wings are scheduled by Headquarters, Marine Corps for a yearly Marine Corps Combat Readiness Evaluation. This is part of the Marine Corps Combat

Readiness Evaluation System. An entire Marine Corps activity is moved to another location to participate in war exercises and be evaluated. Training is an on-going Marine Corps evolution that culminates with the Combat Readiness Evaluation. The evaluation determines the need for further conventional weapons load training of squadron personnel.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
F33657-77-C-0467 F33657-82-C-0024 F33657-84-C-0144 F33657-89-C-2133	Hughes Aircraft Company	Tucson, Arizona

2. Program Documentation. The current Integrated Logistics Support Plan (ILSP) is ILSP No. MS-063, approved August 1991. Program Manager, Air (PMA)242 plans to update this plan in FY97.

3. Technical Data Plan. Naval Air Systems Command (NAVAIRSYSCOM) has designated the Naval Air Technical Services Facility (NATSF) as the central agency for procurement and distribution control of technical manuals. As part of this responsibility, NATSF maintains an automated file of fleet and field publication requirements for each activity. Manuals required to support the Laser Maverick are listed in Section 7.6 of ILSP No. MS-063. Manuals required for training are currently available and listed in element IV.B.3 of this NTSP.

4. Test Sets, Tools, and Test Equipment. Test set, tools, and test equipment required to support the Laser Maverick are listed in section 7.4 of ILSP No. MS-063. The TTU-519/E Guided Missile Test Set is used in conjunction with the SMU-127/E Laser Target Simulator at the AUR depots to test Laser Maverick and CATMs and fault isolate to a section (GCS or CAS).

The AN/AWM-92 Aircraft Weapons Circuit Test Set is used at the organizational level to functionally test the aircraft weapons circuits prior to loading the aircraft. The AN/AWM-54 Firing Circuit Test Set and W-30 Igniter adapter are used at the organizational level to perform stray voltage tests on the launcher igniter connector. The AN/AWM-90 Launcher Test Set is used at intermediate level activities to functionally test the launcher and fault isolate to an SRA. The AN/AWM-92, AN/AWM-54, and AN/AWM-90 are not unique to the Laser Maverick.

5. Repair Parts. The Laser Maverick supply support program is a joint effort between

Navy and Air Force supply activities. Requirements for all levels of maintenance were identified and acquired during the provisioning process to ensure availability of spare and repair parts during the Initial Operating Capability and throughout the life-cycle. The Navy Inventory Control Point provides all common consumable and repairable items and acquires peculiar and unique consumable and repairable items for organizational and intermediate levels of maintenance by submitting a funded requisition to the Air Force. The Air Force will procure, stock, and issue unique depot level items in accordance with the Depot Maintenance Inter-service Support Agreement. The Navy Material Support Date was attained in third quarter FY92.

6. Human Systems Integration. No Human Systems Integration Plan was written for the Laser Maverick program.

K. SCHEDULES

1. Schedule of Events. Fleet introduction of the Laser Maverick occurred in August 1988. All fleet deliveries are complete. The Navy Support Date was attained in January 1991. All training activities are currently RFT.

a. Installation and Delivery Schedules. Laser Maverick schedules are classified and are contained in the Weapon Systems Planning Document for the AGM-65E Laser Maverick Missile System, NAVAIRNOTE C13100 of 26 August 1996.

b. Ready for Operational Use Schedule. The Laser Maverick is currently considered to be ready for operational use.

c. Time Required to Install at Operational Sites. No time is required, since the Laser Maverick is delivered as an All-Up-Round.

d. Foreign Military Sales and Other Source Delivery Schedules. Information on FMS deliveries must be obtained through PMA242.

e. Training Devices and Delivery Schedule. Since both the Laser Maverick and the Imaging Infrared (IIR) Maverick are physically similar, all DATMs will be collectively shared by activities for load drill training. Thirty nine CATM-65Fs and fifteen DATM-65E/Fs have been delivered to the fleet. Element IV.A.2 of this NTSP contains information on locations of Training Devices as of March 1997. Current asset status and location can be obtained from the Conventional Ammunition Integrated Management System (CAIMS).

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
AV-8B Harrier II Weapons System	A-50-8210D/A	PMA257	Approved August 1994
F/A-18 Weapon System	A-50-7703G/D	PMA265	Draft June 1995
AGM-65F Imaging Infrared Maverick Missile System	A-50-8301B/D	PMA242	Preliminary Draft September 1996
AGM-65E/F Laser/IIR Maverick Missiles ILSP	ILSP No: MS-063	PDA AIR-3.1.1K	August 1991
AGM-65E/F Laser/IIR Maverick Phase Support Plan	PSP No: MS-063	AIR 3.1.1K	Approved September 1991
Weapon System Planning Document for the AGM-65E Laser Maverick Missile System	NAVAIRNOTE C13100	PMA242	Approved 5 January 1994
WS D/E/F/G Maverick Security Classification Guide for AGM-65 Missile System		USAF	Approved 1 August 1995

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the AGM-65E; therefore, they are not included in Part II of this NTSP:

II.B. Personnel Requirements

II.B.3. Foreign, Other Service, and Non-Military Personnel Annual Training Input Requirement

NOTE 1: This section of the AGM-65E NTSP reflects maintenance billet and personnel requirements for the AGM-65E. It is a compilation of two organizational and one intermediate level NEC (AO 8342, AO 8842 and AO 6801, respectively) and one organizational and one intermediate level MOS (6531 and 6541, respectively) with associated billets. The addition of the AGM-65E to the organizational and intermediate level workloads is only a small percentage of the required workload for those NECs and MOS. The NECs and MOS are not dedicated to the AGM-65E; therefore, the overall training throughput for the NEC and MOS will remain the same, i.e., account for the total NEC/MOS community, and not just activities receiving AGM-65E.

NOTE 2: All billets identified in this section are programmed through other NTSPs, e.g., F/A-18 NTSP, AV-8 NTSP, applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Documents. The activities and associated billets are listed to assist the weapons training community in identifying and managing training requirements throughout the development, production, and deployment of the AGM-65E.

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAVAIRSYSCOM PMA242/PMA205

DATE: 12/97

ACTIVITY	UIC	PFYs	CFY98	FY99	FY00	FY01	FY02
OPERATIONAL NAVY							
NAVWPNTSTRON CL	39787	1	0	0	0	0	0
NAVWPNTSTRON PM	39788	1	0	0	0	0	0
NAVSTKAIRSTRON	39783	1	0	0	0	0	0
VX-9	55646	1	0	0	0	0	0
VFA-106	09679	1	0	0	0	0	0
VFA-125	09485	1	0	0	0	0	0
VFA-15	09015	1	0	0	0	0	0
VFA-34	09070	1	0	0	0	0	0
VFA-37	09478	1	0	0	0	0	0
VFA-81	09221	1	0	0	0	0	0
VFA-82	09122	1	0	0	0	0	0
VFA-83	09223	1	0	0	0	0	0
VFA-86	09943	1	0	0	0	0	0
VFA-87	63922	1	0	0	0	0	0
VFA-105	65183	1	0	0	0	0	0
VFA-131	63934	1	0	0	0	0	0
VFA-136	55141	1	0	0	0	0	0
VFA-127	08956	1	0	0	0	0	0
VFA-22	09561	1	0	0	0	0	0
VFA-25	09637	1	0	0	0	0	0
VFA-94	09295	1	0	0	0	0	0
VFA-97	63923	1	0	0	0	0	0
VFA-113	09092	1	0	0	0	0	0
VFA-115	09604	1	0	0	0	0	0
VFA-137	55142	1	0	0	0	0	0
VFA-146	09063	1	0	0	0	0	0
VFA-147	63925	1	0	0	0	0	0
VFA-151	09558	1	0	0	0	0	0
VFA-27	65185	1	0	0	0	0	0
VFA-192	55179	1	0	0	0	0	0
VFA-195	09706	1	0	0	0	0	0
VFA-203	09030	1	0	0	0	0	0
VFA-204	09032	1	0	0	0	0	0
NSAWC N7	69190	1	0	0	0	0	0
SFWSL	47084	1	0	0	0	0	0
SFWSP	35185	1	0	0	0	0	0
TOTAL:		36	0	0	0	0	0
OPERATIONAL USMC							
VMFA-115	09234	1	0	0	0	0	0
VMFA-122	09407	1	0	0	0	0	0
VMFA-251	09241	1	0	0	0	0	0
VMFA-312	09253	1	0	0	0	0	0
VMFA (AW)-224	01224	1	0	0	0	0	0
VMFA (AW)-332	09501	1	0	0	0	0	0
VMFA (AW)-533	09193	1	0	0	0	0	0

May 1997

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAVAIRSYSCOM PMA242/PMA205

DATE: 12/97

ACTIVITY	UIC	PFYs	CFY98	FY99	FY00	FY01	FY02
VMFA-212	09434	1	0	0	0	0	0
VMFA-232	09242	1	0	0	0	0	0
VMFA-235	09237	1	0	0	0	0	0
VMFA-314	09230	1	0	0	0	0	0
VMFA-323	09235	1	0	0	0	0	0
VMFA (AW)-121	09257	1	0	0	0	0	0
VMFA (AW)-225	09232	1	0	0	0	0	0
VMFA (AW)-242	09668	1	0	0	0	0	0
VMFA-112	08954	1	0	0	0	0	0
VMFA-134	09365	1	0	0	0	0	0
VMFA-142	67243	1	0	0	0	0	0
VMFA-321	67235	1	0	0	0	0	0
VMA-223	09438	1	0	0	0	0	0
VMA-231	52948	1	0	0	0	0	0
VMA-542	52847	1	0	0	0	0	0
VMA-211	09412	1	0	0	0	0	0
VMA-214	09436	1	0	0	0	0	0
VMA-311	09416	1	0	0	0	0	0
VMA-513	09231	1	0	0	0	0	0
MALS Aug Beaufort	67863	1	0	0	0	0	0
MALS Aug Miramar	09111	1	0	0	0	0	0
MAWTS-1	55167	1	0	0	0	0	0
VMFAT-101	09965	1	0	0	0	0	0
VMAT-203	45483	1	0	0	0	0	0
TOTAL:		31	0	0	0	0	0
FLEET SUPPORT	NAVY						
NAS Cecil Field	60200	1	0	0	0	0	0
NAS Fallon	60495	1	0	0	0	0	0
NAS Lemoore	63042	1	0	0	0	0	0
NAS Oceana	60191	1	0	0	0	0	0
NAS JRB Fort Worth	83447	1	0	0	0	0	0
NAS JRB New Orleans	00206	1	0	0	0	0	0
COMNAVAIRLANT	57012	1	0	0	0	0	0
CV-62 USS Independence	03362	1	0	0	0	0	0
CV-63 USS Kitty Hawk	03363	1	0	0	0	0	0
CV-64 USS Constellation	03364	1	0	0	0	0	0
CVN-65 USS Enterprise	03365	1	0	0	0	0	0
CV-67 USS Kennedy	03367	1	0	0	0	0	0
CVN-68 USS Nimitz	03368	1	0	0	0	0	0
CVN-69 USS Eisenhower	03369	1	0	0	0	0	0
CVN-70 USS Vinson	20993	1	0	0	0	0	0
CVN-71 USS Roosevelt	21247	1	0	0	0	0	0
CVN-72 USS Lincoln	21297	1	0	0	0	0	0
CVN-73 USS Washington	21412	1	0	0	0	0	0
CVN-74 USS Stennis	21847	1	0	0	0	0	0
CVN-75 USS Truman	21853	0	1	0	0	0	0
NAWMU-1	52821	1	0	0	0	0	0
NAWCAD Patuxent River	00421	1	0	0	0	0	0
NAWCWD Point Mugu	63126	1	0	0	0	0	0
NAWS Point Mugu	0429A	1	0	0	0	0	0

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: NAVAIRSYSCOM PMA242/PMA205

DATE: 12/97

ACTIVITY	UIC	PFYs	CFY98	FY99	FY00	FY01	FY02
NAWS China Lake	68937	1	0	0	0	0	0
TOTAL:		24	1	0	0	0	0
FLEET SUPPORT	USMC						
MAD China Lake	67852	1	0	0	0	0	0
MAD Patuxent River	67356	1	0	0	0	0	0
MALS-11 Miramar	09233	1	0	0	0	0	0
MALS-12 Iwakuni	09377	1	0	0	0	0	0
MALS-13 Yuma	57082	1	0	0	0	0	0
MALS-14 Cherry Point	09114	1	0	0	0	0	0
MALS-31 Beaufort	09384	1	0	0	0	0	0
MALS-41 Fort Worth	67239	1	0	0	0	0	0
MALS-42 Marietta	67236	1	0	0	0	0	0
MALS-46 Miramar	67244	1	0	0	0	0	0
MASD Andrews	04801	1	0	0	0	0	0
TOTAL:		11	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
OPERATIONAL	NAVY					
NAVWPNTSTRON CL	39787					
ACDU			0	3	AO	6801
ACDU			0	5	AO	8342
ACTIVITY TOTAL:			0	8		
NAVWPNTSTRON PM	39788					
ACDU			0	3	AO	6801
ACDU			0	5	AO	8342
ACTIVITY TOTAL:			0	8		
NAVSTKAIRSTRON	39783					
ACDU			0	3	AO	6801
ACDU			0	5	AO	8342
ACTIVITY TOTAL:			0	8		
VX-9	55646					
ACDU			0	3	AO	6801
ACDU			0	5	AO	8342
ACTIVITY TOTAL:			0	8		
VFA-106	09679					
AD			0	1	AO	6541
ACDU			0	5	AO	8342
ACTIVITY TOTAL:			0	6		
VFA-125	09485					
AD			0	1	AO	6541
ACDU			0	5	AO	8342
ACTIVITY TOTAL:			0	6		
VFA-15	09015					
ACDU			0	5	AO	8342
VFA-34	09070					
ACDU			0	5	AO	8342
VFA-37	09478					
ACDU			0	5	AO	8342
VFA-81	09221					
ACDU			0	5	AO	8342
VFA-82	09122					
ACDU			0	5	AO	8342
VFA-83	09223					
ACDU			0	5	AO	8342
VFA-86	09943					
ACDU			0	5	AO	8342
VFA-87	63922					
ACDU			0	5	AO	8342
VFA-105	65183					
ACDU			0	5	AO	8342
VFA-131	63934					
ACDU			0	5	AO	8342

¹ All billet requirements shown are programmed in the AV-8 NTSP, F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document.

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VFA-136	55141					
	ACDU		0	5	AO	8342
VFA-127	08956					
	ACDU		0	5	AO	8342
VFA-22	09561					
	ACDU		0	5	AO	8342
VFA-25	09637					
	ACDU		0	5	AO	8342
VFA-94	09295					
	ACDU		0	5	AO	8342
VFA-97	63923					
	ACDU		0	5	AO	8342
VFA-113	09092					
	ACDU		0	5	AO	8342
VFA-115	09604					
	ACDU		0	5	AO	8342
VFA-137	55142					
	ACDU		0	5	AO	8342
VFA-146	09063					
	ACDU		0	5	AO	8342
VFA-147	63925					
	ACDU		0	5	AO	8342
VFA-151	09558					
	ACDU		0	5	AO	8342
VFA-27	65185					
	ACDU		0	5	AO	8342
VFA-192	55179					
	ACDU		0	5	AO	8342
VFA-195	09706					
	ACDU		0	5	AO	8342
VFA-203	09030					
	TAR		0	5	AO	8342
VFA-204	09032					
	TAR		0	5	AO	8342
NSAWC N7	69190					
	ACDU		0	5	AO	8342
SFWSL	47084					
	ACDU		0	5	AO	8342
SFWSP	35185					
	ACDU		0	5	AO	8342
OPERATIONAL	USMC					
VMFA-115	09234					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA-122	09407					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMFA-251	09241					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA-312	09253					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA (AW)-224	01224					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA (AW)-332	09501					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA (AW)-533	09193					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA-212	09434					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA-232	09242					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA-235	09237					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA-314	09230					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA-323	09235					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA (AW)-121	09257					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA (AW)-225	09232					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMFA (AW)-242	09668					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMFA-112	08954					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
	AR		0	3	AO	6541
ACTIVITY TOTAL:			0	11		
VMFA-134	09365					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
	AR		0	3	AO	6541
ACTIVITY TOTAL:			0	11		
VMFA-142	67243					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
	AR		0	3	AO	6541
ACTIVITY TOTAL:			0	11		
VMFA-321	67235					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
	AR		0	3	AO	6541
ACTIVITY TOTAL:			0	11		
VMA-223	09438					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMA-231	52948					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMA-542	52847					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMA-211	09412					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMA-214	09436					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
VMA-311	09416					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
VMA-513	09231					
	AD		0	5	AO	6531
	AD		0	3	AO	6541
ACTIVITY TOTAL:			0	8		
MALS Aug Beaufort	67863					
	AD		0	3	AO	6541
MALS Aug Miramar	09111					
	AD		0	3	AO	6541
MAWTS-1	55167					
	AD		0	2	AO	6541
VMFAT-101	09965					
	AD		0	6	AO	6541
VMAT-203	45483					
	AD		0	6	AO	6541
FLEET SUPPORT	NAVY					
NAS Cecil Field	60200					
	ACDU		0	3	AO	6801
NAS Fallon	60495					
	ACDU		0	3	AO	6801
NAS Lemoore	63042					
	ACDU		0	3	AO	6801
NAS Oceana	60191					
	ACDU		0	3	AO	6801
NAS JRB Fort Worth						
	TAR		0	3	AO	6801
NAS JRB New Orleans	00206					
	TAR		0	3	AO	6801
COMNAVAIRLANT	57012					
	ACDU		0	3	AO	6801
CV-62 USS Independence	03362					
	ACDU		0	3	AO	6801
CV-63 USS Kitty Hawk	03363					
	ACDU		0	3	AO	6801
	SELRES		0	2	AO	6801
ACTIVITY TOTAL:			0	5		
CV-64 USS Constellation	03364					
	ACDU		0	3	AO	6801
CVN-65 USS Enterprise	03365					
	ACDU		0	3	AO	6801
CV-67 USS Kennedy	03367					
	ACDU		0	3	AO	6801
	SELRES		0	2	AO	6801
ACTIVITY TOTAL:			0	5		
CVN-68 USS Nimitz	03368					
	ACDU		0	3	AO	6801
CVN-69 USS Eisenhower	03369					
	ACDU		0	3	AO	6801
CVN-70 USS Vinson	20993					
	ACDU		0	3	AO	6801

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II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES¹

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
CVN-71 USS Roosevelt	21247					
ACDU			0	3	AO	6801
CVN-72 USS Lincoln	21297					
ACDU			0	3	AO	6801
CVN-73 USS Washington	21412					
ACDU			0	3	AO	6801
CVN-74 USS Stennis	21847					
ACDU			0	3	AO	6801
CVN-75 USS Truman	21853					
ACDU			0	3	AO	6801
NAWMU-1	52821					
ACDU			0	6	AO	6801
NAWCAD Patuxent River	00421					
ACDU			0	2	AO	6801
ACDU			0	2	AO	6801/8342
ACTIVITY TOTAL:			0	4		
NAWCWD Point Mugu	63126					
ACDU			0	1	AO	6801
NAWS Point Mugu	0429A					
ACDU			0	3	AO	6801
NAWS China Lake	68937					
SELRES			0	1	AO	6801
FLEET SUPPORT	USMC					
MAD China Lake	67852					
AD			0	2	AO	6541
MAD Patuxent River	67356					
AD			0	1	AO	6541
MALS-11 Miramar	09233					
AD			0	3	AO	6541
MALS-12 Iwakuni	09377					
AD			0	3	AO	6541
MALS-13 Yuma	57082					
AD			0	3	AO	6541
MALS-14 Cherry Point	09114					
AD			0	3	AO	6541
MALS-31 Beaufort	09384					
AD			0	3	AO	6541
MALS-41 Fort Worth	67239					
AR			0	3	AO	6541
AD			0	3	AO	6541
ACTIVITY TOTAL:			0	6		
MALS-42 Marietta	67236					
AR			0	3	AO	6541
AD			0	2	AO	6541
ACTIVITY TOTAL:			0	5		
MALS-46 Miramar	67244					
AR			0	3	AO	6541
MASD Andrews	04801					
AD			0	1	AO	6541

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES²

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY98		FY99		FY00		FY01		FY02	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
OPERATIONAL ACTIVITY - ACDU													
AO	6801	0	12	0	0	0	0	0	0	0	0	0	0
AO	8342	0	170	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - TAR													
AO	8342	0	10	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - AD													
AO	6531	0	130	0	0	0	0	0	0	0	0	0	0
AO	6541	0	100	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - AR													
AO	6541	0	12	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - ACDU													
AO	6801	0	66	0	0	0	0	0	0	0	0	0	0
AO	6801/8342	0	2	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - TAR													
AO	6801	0	6	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - SELRES													
AO	6801	0	5	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AD													
AO	6541	0	24	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AR													
AO	6541	0	9	0	0	0	0	0	0	0	0	0	0
SUMMARY TOTAL:													
OPERATIONAL ACTIVITY - ACDU													
		0	182	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - TAR													
		0	10	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - AD													
		0	230	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - AR													
		0	12	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - ACDU													
		0	68	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - TAR													
		0	6	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - SELRES													
		0	5	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AD													
		0	24	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - AR													
		0	9	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL:													
	ACDU	0	250	0	0	0	0	0	0	0	0	0	0
	TAR	0	16	0	0	0	0	0	0	0	0	0	0
	SELRES	0	5	0	0	0	0	0	0	0	0	0	0
	AD	0	254	0	0	0	0	0	0	0	0	0	0
	AR	0	21	0	0	0	0	0	0	0	0	0	0

² All billet requirements shown are programmed in the AV-8 NTSP, F/A-18 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document.

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

SOURCE: NAVAIRSYSCOM PMA242/PMA205

DATE: 12/97

ACTIVITY	UIC	PFYs	CFY98	FY99	FY00	FY01	FY02
FLEET SUPPORT	NAVY						
CV-62 USS Independence	03362	0	1	0	0	0	0
TOTAL		0	1	0	0	0	0

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

SOURCE:

DATE: 12/97

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
FLEET SUPPORT	NAVY					
CV-62 USS Independence ACDU	03362	FY98	0	3	AO	6801
ACTIVITY TOTAL:			0	3		

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

DESIGN	PNEC/SNEC	PFYs		CFY98		FY99		FY00		FY01		FY02	
RATING	PMOS/SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
FLEET SUPPORT ACTIVITY - ACDU													
AO	6801	0	0	0	3	0	0	0	0	0	0	0	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS³

INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC: MTU 4032 NAMTRAGRUDET NAS Norfolk 66046													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY98		FY99		FY00		FY01		FY02	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
ACDU													
AO	6801/9502	0	7	0	7	0	7	0	7	0	7	0	7
SELRES													
AO	6801/9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	9	0	9	0	9	0	9	0	9	0	9

TRAINING ACTIVITY, LOCATION, UIC: MTU 4030 NAMTRAGRUDET NS Mayport 66069													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY98		FY99		FY00		FY01		FY02	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
ACDU													
AO	6801/9502	0	3	0	3	0	3	0	3	0	3	0	3
SELRES													
AO	6801/9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU 4033 NAMTRAGRUDET NAS North Island 66065													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY98		FY99		FY00		FY01		FY02	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: VMAT-203 FREST MCAS Cherry Point 45483													
DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY98		FY99		FY00		FY01		FY02	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
AD													
	6541	0	21	0	21	0	21	0	21	0	21	0	21

³ Instructor billet requirements shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AGM-65E.

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS ⁴

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY98		FY99		FY00		FY01		FY02	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 4032 NAMTRAGRUDET, NAS Norfolk, 66046	USN	0	5.6	0	4.9	0	5.1	0	5.1	0	5.1	0	5.1
MTU 4030 NAMTRAGRUDET, NS Mayport, 66069	USN	0	0.8	0	0.8	0	0.7	0	0.1	0	0.1	0	0.1
MTU 4033 NAMTRAGRUDET, NAS North Island, 66065	USN	0	3.8	0	3.8	0	3.8	0	3.8	0	3.8	0	3.8
VMAT-203 FREST, MCAS Cherry Point, 45483	USMC	0	55.6	0	55.6	0	56.6	0	55.6	0	55.6	0	55.6
SUMMARY TOTAL:	USN	0	10.2	0	9.5	0	9.6	0	9.0	0	9.0	0	9.0
	USMC	0	55.6	0	55.6	0	55.6	0	55.6	0	55.6	0	55.6
GRAND TOTAL:		0	65.8	0	65.1	0	65.2	0	64.6	0	64.6	0	64.6

⁴ Chargeable student billet requirements shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AGM-65E.

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS⁵

a. OFFICER - USN: NA

b. ENLISTED - USN:

RATING	PNEC/SNEC	BILLET BASE	CFY98		FY99		FY00		FY01		FY02	
			+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
Operational Billets ACDU and TAR												
AO	6801	12	0	12	0	12	0	12	0	12	0	12
AO	8342	180	0	180	0	180	0	180	0	180	0	180
Fleet Support Billets ACDU and TAR												
AO	6801	66	-3	63	0	63	0	63	0	63	0	63
AO	6801/8342	2	0	2	0	2	0	2	0	2	0	2
Instructor and Support (Staff) Billets ACDU and TAR												
AO	6801/9502	14	0	14	0	14	0	14	0	14	0	14
Chargeable Student Billets ACDU and TAR												
		10	0	10	0	10	0	10	0	10	0	10
TOTAL USN ENLISTED BILLETS:												
Operational		192	0	192	0	192	0	192	0	192	0	192
Fleet Support		68	-3	65	0	65	0	65	0	65	0	65
Staff		14	0	14	0	14	0	14	0	14	0	14
Student		10	0	10	0	10	0	10	0	10	0	10
SELRES		5	0	5	0	5	0	5	0	5	0	5

c. OFFICER - USMC: NA

d. ENLISTED - USMC:

RATING	PMOS/SMOS	BILLET BASE	CFY97		FY98		FY99		FY00		FY01	
			+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
Operational Billets AD and AR												
	6531	130	0	130	0	130	0	130	0	130	0	130
	6541	100	0	100	0	100	0	100	0	100	0	100
Fleet Support Billets AD and AR												
	6541	33	0	33	0	33	0	33	0	33	0	33
Instructor and Support (Staff) Billets AD and AR												
	6541	21	0	21	0	21	0	21	0	21	0	21
Chargeable Student Billets AD and AR												
		56	0	56	0	56	0	56	0	56	0	56
TOTAL USMC ENLISTED BILLETS:												
Operational		230	0	230	0	230	0	230	0	230	0	230
Fleet Support		33	0	33	0	33	0	33	0	33	0	33
Staff		21	0	21	0	21	0	21	0	21	0	21
Student		56	0	56	0	56	0	56	0	56	0	56
SMCR		0	0	0	0	0	0	0	0	0	0	0

⁵ Billet base identified is only a portion of the total applicable NEC/MOS billet base, which is allocated for all air-launched weapons and ordnance maintenance. Billets are programmed through applicable CV/CVN Class Total Ship NTSPs and Shore Activity Manning Documents.

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS⁶

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
 COURSE LENGTH: 6.0 Weeks SEA TOUR LENGTH: Navy: 36 Months
 ATTRITION FACTOR: Navy: 10 % BACKOUT FACTOR: 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY98		FY99		FY00		FY01		FY02	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4030 NAMTRAGRUDET, NS Mayport ⁷												
	USN	ACDU-TAR	0	8	0	7	0	1	0	1	0	1
MTU-4032 NAMTRAGRU DET, NAS Norfolk												
	USN	ACDU-TAR	0	47	0	49	0	49	0	49	0	49
	USN	SELRES	0	1	0	0	0	0	0	1	0	0
		TOTAL	0	48	0	49	0	49	0	50	0	49

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
 COURSE LENGTH: 6.0 Weeks SEA TOUR LENGTH: Navy: 36 Months
 ATTRITION FACTOR: Navy: 10 % BACKOUT FACTOR: 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY98		FY99		FY00		FY01		FY02	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU-4033 NAMTRAGRU DET, NAS North Island												
	USN	ACDU-TAR	0	37	0	37	0	37	0	37	0	37
	USN	SELRES	0	1	0	1	0	1	0	1	0	1
		TOTAL	0	38	0	38	0	38	0	38	0	38

CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance
 COURSE LENGTH: 11.4 Weeks
 ATTRITION FACTOR: Marine: 0 % BACKOUT FACTOR: 0.23

TRAINING ACTIVITY	SOURCE	AD-AR SMCR	CFY98		FY99		FY00		FY01		FY02	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VMAT-203 FREST, MCAS Cherry Point												
	USMC	AD-AR	0	257	0	257	0	257	0	257	0	257

ACTIVITY TOTAL:

MTU-4030 NAMTRAGRU DET			0	8	0	7	0	1	0	1	0	1
MTU-4032 NAMTRAGRU DET			0	48	0	49	0	49	0	50	0	49
MTU-4033 NAMTRAGRU DET			0	38	0	38	0	38	0	38	0	38
VMAT-203 FREST			0	257	0	257	0	257	0	257	0	257

⁶ ATIR shown are for the total course throughput for applicable NEC/MOS, not just throughput required to support AGM-65E.

⁷ MTU 4030 NAMTRAGRUDET will begin to transfer functions to Everett, Washington in FY99.

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the AGM-65E Laser Maverick Missile System; therefore, they are not included in Part III of this NTSP:

III.A. Training Course Requirements

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET⁸
LOCATION, UIC: NAS Mayport, 66069
CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	8	0	7	0	1	0	1	0	1	ATIR
0	7	0	6	0	1	0	1	0	1	Output
0.0	0.8	0.0	0.7	0.0	0.1	0.0	0.1	0.0	0.1	AOB
0.0	0.8	0.0	0.7	0.0	0.1	0.0	0.1	0.0	0.1	Chargeable

TRAINING ACTIVITY: MTU-4032 NAMTRAGRUDET
LOCATION, UIC: NAS Norfolk, 66046
CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	47	0	49	0	49	0	49	0	49	ATIR
0	42	0	44	0	44	0	44	0	44	Output
0.0	4.9	0.0	5.1	0.0	5.1	0.0	5.1	0.0	5.1	AOB
0.0	4.9	0.0	5.1	0.0	5.1	0.0	5.1	0.0	5.1	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	1	0	0	0	0	0	1	0	1	ATIR
0	1	0	0	0	0	0	1	0	1	Output
0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	AOB
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Chargeable

⁸ MTU 4030 NAMTRAGRUDET will begin to transfer functions to Everett, Washington in FY99.

TRAINING ACTIVITY: MTU-4033 NAMTRAGRUDET
LOCATION, UIC: NAS North Island, 66065
CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance
SOURCE: NAVY **STUDENT CATEGORY:** ACDU-TAR

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	37	0	37	0	37	0	37	0	37	ATIR
0	33	0	33	0	33	0	33	0	33	Output
0.0	3.8	0.0	3.8	0.0	3.8	0.0	3.8	0.0	3.8	AOB
0.0	3.8	0.0	3.8	0.0	3.8	0.0	3.8	0.0	3.8	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	1	0	1	0	1	0	1	0	1	ATIR
0	1	0	1	0	1	0	1	0	1	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	0.0	0.0	0.0	0.0	0.0	Chargeable

TRAINING ACTIVITY: VMAT-203 FREST
LOCATION, UIC: MCAS Cherry Point, 45483
CIN, COURSE TITLE: M-646-7026, Aircraft Ordnance Intermediate Maintenance (See Note Below)
SOURCE: USMC **STUDENT CATEGORY:** AD-AR

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	257	0	257	0	257	0	257	0	257	ATIR
0	257	0	257	0	257	0	257	0	257	Output
0.0	55.6	0.0	55.6	0.0	55.6	0.0	55.6	0.0	55.6	AOB
0.0	55.6	0.0	55.6	0.0	55.6	0.0	55.6	0.0	55.6	Chargeable

NOTE: C-646-3105, Aviation Ordnance Intermediate Maintenance Technician, as part of track M-646-7026, is currently listed in OPNAV Training Management System (OTMS) as 93 days. In July 1997, VMAT-203 shortened this course and is currently teaching it as a 73 day course, as is reflected in this NTSP. This makes the length of training track M-646-7026, Aircraft Ordnance Intermediate Maintenance, 11.4 weeks (79 days). It is shown in OTMS as 99 days.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the Laser Maverick and are therefore not included in this NTSP.

- IV.A.1 TTE/GPTE/SPTE/ST/GPETE/SPETE
- IV.A.4 Repair Parts for Technical Training Equipment
- IV.B.1 Training Services
- IV.C.1 Facility Requirements Summary (Space/Support) by Activity
- IV.C.2 Facility Requirements Detailed by Activity by Course
- IV.C.3 Facility Project Summary by Program

IV.A. TRAINING HARDWARE REQUIREMENTS

IV.A.2. TRAINING DEVICES

DEVICE: Captive Air Training Missile, CATM-65E

DESCRIPTION OF DEVICE: The CATM-65E is an inert, captive flight training missile permitting realistic exercise of the Laser Maverick. The CATM airborne operation provides direct comparison with actual weapon firings by simulation without expending the missile.

MANUFACTURER: NA

CONTRACT NUMBER: NA

TEE STATUS: NA

TRAINING ACTIVITY: VFA-106

LOCATION, UIC : NAS Cecil Field 09679

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
9			On board	D-2A-0601 D-2A-0602 D-2A-0604 D-2A-0606 D-646-0640 D-646-0647

TRAINING ACTIVITY: VFA-125

LOCATION, UIC : NAS Lemoore 65559

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
8			On board	E-2A-0601 E-2A-0602 E-2A-0604 E-2A-0606 E-646-0640 E-646-0647

IV.A.2. TRAINING DEVICES

TRAINING ACTIVITY: VMFAT-101

LOCATION, UIC : MCAS El Toro 45526

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
7			On board	See note below

NOTE: The following courses are supported by CATMs (listed by title because no course numbers exist).

F/A-18 Fleet Replacement Pilot Cat 1	F/A-18 (WSO) Cat 1
F/A-18 Fleet Replacement Pilot Cat 2	F/A-18 (WSO) Cat 2
F/A-18 Fleet Replacement Pilot Cat 3	F/A-18 (WSO) Cat 3
F/A-18 Fleet Replacement Pilot Cat 4	F/A-18 (WSO) Cat 4

TRAINING ACTIVITY: VMAT-203

LOCATION, UIC : MCAS Cherry Point 45483

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
5			On board	See note below

NOTE: The following courses are supported by CATMs (listed by title because no course numbers exist).

- AV-8B Pilot Basic
- AV-8B Pilot Transition
- AV-8B Pilot Conversion
- AV-8B Pilot Refresher

TRAINING ACTIVITY: MAG Alameda

LOCATION, UIC : MAG Alameda 67251

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On-board	Readiness/Loading/Handling

IV.A.2. TRAINING DEVICES

TRAINING ACTIVITY: MALS Yuma
LOCATION, UIC : MALS Yuma 55585

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
3			On-board	Readiness/Loading/Handling

TRAINING ACTIVITY: Pacific Fleet
LOCATION, UIC : Pacific Fleet

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On-board	Readiness/Loading/Handling

TRAINING ACTIVITY: Atlantic Fleet
LOCATION, UIC : Atlantic Fleet

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On-board	Readiness/Loading/Handling

TRAINING ACTIVITY: NAS Patuxent River
LOCATION, UIC : NAS Patuxent River 0428A

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On-board	Readiness/Loading/Handling

TRAINING ACTIVITY: NAS Whidbey Island
LOCATION, UIC : NAS Whidbey Island 00620

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On-board	Readiness/Loading/Handling

TRAINING ACTIVITY: NAVWPNSSTA Yorktown
LOCATION, UIC : NAVWPNSSTA Yorktown 00109

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On-board	Readiness/Loading/Handling

IV.A.2. TRAINING DEVICES

DEVICE: Dummy Air Training Missile, DATM-65E/F

DESCRIPTION OF DEVICE: The DATM-65E/F is physically representative of the Laser Maverick. It is a training device to facilitate instruction and familiarization for transporting, handling, loading, and visual inspection procedures for organizational and intermediate level training purposes. The DATM is not certified for flight, and is designed for ground training use only.

MANUFACTURER: NA

CONTRACT NUMBER: NA

TEE STATUS: NA

TRAINING ACTIVITY: VFA-106
LOCATION, UIC : NAS Cecil Field 09679

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On board	C-646-9973 C-646-9974 D-646-0640 D-646-0647

TRAINING ACTIVITY: VFA-125
LOCATION, UIC : NAS Lemoore 65559

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On board	C-646-9973 C-646-9974 E-646-0640 E-646-0647

TRAINING ACTIVITY: VMFAT-101
LOCATION, UIC : MCAS Miramar 45526

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On board	C-646-9973 C-646-9974 E-646-0640 E-646-0647

TRAINING ACTIVITY: VMAT-203
LOCATION, UIC : MCAS Cherry Point 45483

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On board	C-646-9888 C-646-3893 C-646-3105

IV.A.2. TRAINING DEVICES

TRAINING ACTIVITY:	NAF El Centro					
LOCATION, UIC :	NAF El Centro		60042			
	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
	1			On-board	Loading/Handling	
TRAINING ACTIVITY:	NAS North Island					
LOCATION, UIC :	NAS North Island		00246			
	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
	1			On-board	Loading/Handling	
TRAINING ACTIVITY:	NAS Fallon					
LOCATION, UIC :	NAS Fallon		60495			
	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
	1			On-board	Loading/Handling	
TRAINING ACTIVITY:	NAS Oceana					
LOCATION, UIC :	NAS Oceana		60191			
	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
	1			On-board	Loading/Handling	
TRAINING ACTIVITY:	NAS Dallas					
LOCATION, UIC :	NAS Dallas		00215			
	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
	1			On-board	Loading/Handling	
TRAINING ACTIVITY:	NAS Pensacola					
LOCATION, UIC :	NAS Pensacola		00204			
	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
	1			On-board	Loading/Handling	
TRAINING ACTIVITY:	NAS New Orleans					
LOCATION, UIC :	NAS New Orleans		00206			
	QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED	
	1			On-board	Loading/Handling	

IV.A.2. TRAINING DEVICES

TRAINING ACTIVITY: NAF Washington
LOCATION, UIC : NAF Washington

00166

QUANT REQD	DATE REQD	RFT DATE	STATUS
1			On-board

**COURSES
SUPPORTED**
Loading/Handling

TRAINING ACTIVITY: NAS Whidbey Island
LOCATION, UIC : NAS Whidbey Island

00620

QUANT REQD	DATE REQD	RFT DATE	STATUS
1			On-board

**COURSES
SUPPORTED**
Loading/Handling

TRAINING ACTIVITY: NAS Willow Grove
LOCATION, UIC : NAS Willow Grove

00158

QUANT REQD	DATE REQD	RFT DATE	STATUS
1			On-board

**COURSES
SUPPORTED**
Loading/Handling

IV.A.2. TRAINING DEVICES

DEVICE: Practical Explosive Ordnance Disposal System Trainer

DESCRIPTION OF DEVICE: The Laser Maverick PEST is a full scale model fabricated from actual hardware, having approximately the same weight and center of gravity as the tactical missile. The PEST is used for teaching Rendering Safe Procedures.

MANUFACTURER: NA

CONTRACT NUMBER: NA

TEE STATUS: NA

TRAINING ACTIVITY: NAVSCOLEOD
LOCATION, UIC : NAVSURFWARCEN Indian Head 68636

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On board	A-431-0011 A-431-0012

TRAINING ACTIVITY: EODTEU ONE
LOCATION, UIC : NAS Barbers Point 30202

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On board	G-431-0001

TRAINING ACTIVITY: EODTEU TWO
LOCATION, UIC : Fort Story 43505

QUANT REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1			On board	G-431-0001

IV.B. COURSEWARE REQUIREMENTS

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: VFA-106
LOCATION, UIC: NAS Cecil Field 09679
CIN, COURSE TITLE: D-2A-0601 F/A-18 Fleet Replacement Pilot Cat 1
 D-2A-0602 F/A-18 Fleet Replacement Pilot Cat 2A
 D-2A-0604 F/A-18 Fleet Replacement Pilot Cat 3A
 D-2A-0606 F/A-18 Fleet Replacement Pilot Cat 4
 D-646-0640 F/A-18 Conventional Weapons Loading
 D-646-0647 F/A-18 Conventional Release System Test

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: VFA-125
LOCATION, UIC: NAS Lemoore 65554
CIN, COURSE TITLE: E-2A-0601 F/A-18 Fleet Replacement Pilot Cat 1
 ED-2A-0602 F/A-18 Fleet Replacement Pilot Cat 2A
 E-2A-0604 F/A-18 Fleet Replacement Pilot Cat 3A
 E-2A-0606 F/A-18 Fleet Replacement Pilot Cat 4
 E-646-0640 F/A-18 Conventional Weapons Loading
 E-646-0647 F/A-18 Conventional Release System Test

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: VMFAT-101
LOCATION, UIC: MCAS El Toro 45526
CIN, COURSE TITLE: F/A-18D Fleet Replacement Pilot Cat 1
 F/A-18D Fleet Replacement Pilot Cat 2
 F/A-18D Fleet Replacement Pilot Cat 3
 F/A-18D Fleet Replacement Pilot Cat 4
 F/A-18D (WSO) Cat 1
 F/A-18D (WSO) Cat 2
 F/A-18D (WSO) Cat 3
 F/A-18D (WSO) Cat 4

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

NOTE: The courses above are listed by title only because no course numbers exist.

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: VMAT-203
LOCATION, UIC: MCAS Cherry Point 45483
CIN, COURSE TITLE: AV-8B Pilot Basic
 AV-8B Pilot Transition
 AV-8B Pilot Conversion
 AV-8B Pilot Refresher

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

NOTE: The pilot courses above are listed by title only because no course numbers exist.

TRAINING ACTIVITY: NATTC
LOCATION, UIC: NAS Pensacola 35348
CIN, COURSE TITLE: C-646-2011 Aviation Ordnance "Class A1" School (Common Core)
 C-646-2012 Aviation Ordnance "Class A1" School (Airwing Strand)
 C-646-2013 Aviation Ordnance "Class A1" School (Weapons Department Strand)

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: MTU 1039 NAMTRAGRU DET
LOCATION, UIC: NAS Cecil Field 66050
CIN, COURSE TITLE: C-646-9973 F/A-18 Stores Management System (Initial) Organizational Maintenance
 C-646-9974 F/A-18 Stores Management System Organizational Maintenance (Career)

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: MTU 1038 NAMTRAGRU DET
LOCATION, UIC: NAS Lemoore 66060
CIN, COURSE TITLE: C-646-9973 F/A-18 Stores Management System (Initial) Organizational Maintenance
 C-646-9974 F/A-18 Stores Management System Organizational Maintenance (Career)

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: Strike Fighter Weapons School - Atlantic
LOCATION, UIC: NAS Cecil Field 47084
CIN, COURSE TITLE: D-646-0640 F/A-18 Conventional Weapons Loading
 D-646-0647 F/A-18 Conventional Release System Test

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: Strike Fighter Weapons School - Pacific
LOCATION, UIC: NAS Lemoore 35185
CIN, COURSE TITLE: E-646-0640 F/A-18 Conventional Weapons Loading
 E-646-0647 F/A-18 Conventional Release System Test

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: VMAT-203 FREST
LOCATION, UIC: MCAS Cherry Point 45483
CIN, COURSE TITLE: C-646-9888 AV-8B Aircraft Ordnance Technician Integrated Organizational Maintenance
 C-646-3893 AV-8B Conventional Weapons Loading

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: MTU 4030 NAMTRAGRU DET
LOCATION, UIC: NAS Mayport 66069
CIN, COURSE TITLE: C-122-3111 Air Launched Guided Missiles Intermediate Maintenance

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: MTU 4032 NAMTRAGRU DET
LOCATION, UIC: NAS Norfolk 66046
CIN, COURSE TITLE: C-122-3111 Air Launched Guided Missiles Intermediate Maintenance

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

TRAINING ACTIVITY: MTU 4033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island 66065
CIN, COURSE TITLE: C-122-3111 Air Launched Guided Missiles Intermediate Maintenance

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: VMAT-203 FREST
LOCATION, UIC: MCAS Cherry Point 45483
CIN, COURSE TITLE: C-646-3105 Aviation Ordnance Intermediate Maintenance Technician

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: NAVSCOLEOD
LOCATION, UIC: NAVSURFWARCEN Indian Head 30446
CIN, COURSE TITLE: A-431-0011 EOD Phase II (Navy)
A-431-0012 EOD Phase II

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: EODTEU ONE
LOCATION, UIC: NAS Barbers Point 30202
CIN, COURSE TITLE: G-431-0001 EOD Pre-deployment Team Training

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

TRAINING ACTIVITY: EODTEU TWO
LOCATION, UIC: Fort Story 43505
CIN, COURSE TITLE: G-431-0001 EOD Pre-deployment Team Training

TYPES OF MATERIAL OR AID	QUANT REQD	DATE REQD	STATUS
Laser Maverick Source Data	1 Set		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: VFA-106

LOCATION, UIC: NAS Cecil Field 09679

CIN, COURSE TITLE: D-2A-0601 F/A-18 Fleet Replacement Pilot Cat 1
 D-2A-0602 F/A-18 Fleet Replacement Pilot Cat 2A
 D-2A-0604 F/A-18 Fleet Replacement Pilot Cat 3A
 D-2A-0606 F/A-18 Fleet Replacement Pilot Cat 4

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D A1-F18AC-NFM-000	Hard Copy	6		On board
NATOPS Pocket Checklist A1-F18AC-NFM-500	Hard Copy	6		On board
Tactical Manual A1-F18AC-TAC-000	Hard Copy	6		On board
Tactical Manual Pocket Guide A1-F18AC-TAC-300	Hard Copy	6		On board

TRAINING ACTIVITY: VFA-125

LOCATION, UIC: NAS Lemoore 65559

CIN, COURSE TITLE: E-2A-0601 F/A-18 Fleet Replacement Pilot Cat 1
 E-2A-0602 F/A-18 Fleet Replacement Pilot Cat 2A
 E-2A-0604 F/A-18 Fleet Replacement Pilot Cat 3A
 E-2A-0606 F/A-18 Fleet Replacement Pilot Cat 4

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D A1-F18AC-NFM-000	Hard Copy	6		On board
NATOPS Pocket Checklist A1-F18AC-NFM-500	Hard Copy	6		On board
Tactical Manual A1-F18AC-TAC-000	Hard Copy	6		On board
Tactical Manual Pocket Guide A1-F18AC-TAC-300	Hard Copy	6		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: VMFAT-101

LOCATION, UIC: MCAS El Toro 45526

CIN, COURSE TITLE: F/A-18D Fleet Replacement Pilot Cat 1
 F/A-18D Fleet Replacement Pilot Cat 2
 F/A-18D Fleet Replacement Pilot Cat 3
 F/A-18D Fleet Replacement Pilot Cat 4
 F/A-18D (WSO) Cat 1
 F/A-18D (WSO) Cat 2
 F/A-18D (WSO) Cat 3
 F/A-18D (WSO) Cat 4

NOTE: The courses above are listed by title only because no course numbers exist.

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model F/A-18A/B/C/D A1-F18AC-NFM-000	Hard Copy	6		On board
NATOPS Pocket Checklist A1-F18AC-NFM-500	Hard Copy	6		On board
Tactical Manual A1-F18AC-TAC-000	Hard Copy	6		On board
Tactical Manual Pocket Guide A1-F18AC-TAC-300	Hard Copy	6		On board

TRAINING ACTIVITY: VMAT-203

LOCATION, UIC: MCAS Cherry Point 45483

CIN, COURSE TITLE: AV-8B Pilot Basic
 AV-8B Pilot Transition
 AV-8B Pilot Conversion
 AV-8B Pilot Refresher

NOTE: The courses above are listed by title only because no course numbers exist.

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
NATOPS Flight Manual Navy Model AV-8B/TAV-8B A1-AV8BB-NFM-000	Hard Copy	6		On board
NATOPS Pocket Checklist A1-AV8BB-NFM-500	Hard Copy	6		On board
AV-8B Tactical Manual A1-AV8BB-TAC-050	Hard Copy	6		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU 1039, NAMTRAGRU DET

LOCATION, UIC: NAS Cecil Field 66050

CIN, COURSE TITLE: C-646-9973 F/A-18 Stores Management System (Initial) Organizational Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual A1-F18AC-LWS-000	Hard Copy	8		On board
Airborne Weapons/Stores Loading Manual A1-F18AE-LWS-000	Hard Copy	8		On board

CIN, COURSE TITLE: C-646-9974 F/A-18 Stores Management System Organizational Maintenance (Career)

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual A1-F18AE-LWS-000	Hard Copy	8		On board

TRAINING ACTIVITY: MTU 1038, NAMTRAGRU DET

LOCATION, UIC: NAS Lemoore 66060

CIN, COURSE TITLE: C-646-9973 F/A-18 Stores Management System (Initial) Organizational Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual A1-F18AC-LWS-000	Hard Copy	8		On board
Airborne Weapons/Stores Loading Manual A1-F18AE-LWS-000	Hard Copy	8		On board

CIN, COURSE TITLE: C-646-9974 F/A-18 Stores Management System Organizational Maintenance (Career)

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual A1-F18AE-LWS-000	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: Strike Fighter Weapons School Atlantic
LOCATION, UIC: NAS Cecil Field 47084
CIN, COURSE TITLE: D-646-0640 F/A-18 Conventional Weapons Loading

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual A1-F18AC-LWS-000	Hard Copy	10		On board
Airborne Weapons/Stores Loading Manual A1-F18AE-LWS-000	Hard Copy	10		On board

CIN, COURSE TITLE: D-646-0647 F/A-18 Conventional Release System Test

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual A1-F18AC-LWS-000	Hard Copy	10		On board
Airborne Weapons/Stores Loading Manual A1-F18AE-LWS-000	Hard Copy	10		On board

TRAINING ACTIVITY: Strike Fighter Weapons School Pacific
LOCATION, UIC: NAS Lemoore 35185
CIN, COURSE TITLE: E-646-0640 F/A-18 Conventional Weapons Loading

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual A1-F18AC-LWS-000	Hard Copy	10		On board
Airborne Weapons/Stores Loading Manual A1-F18AE-LWS-000	Hard Copy	10		On board

CIN, COURSE TITLE: E-646-0647 F/A-18 Conventional Release System Test

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne Weapons/Stores Loading Manual A1-F18AC-LWS-000	Hard Copy	10		On board
Airborne Weapons/Stores Loading Manual A1-F18AE-LWS-000	Hard Copy	10		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: VMAT-203 FREST

LOCATION, UIC: MCAS Cherry Point 45483

CIN, COURSE TITLE: C-646-9888 AV-8B Aircraft Ordnance Technician Integrated Organizational Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne AV-8B Weapons/Stores Loading Manual A1-AV8BB-LWS-000	Hard Copy	12		On board
Organizational Maintenance System Schematics, Weapons Control System A1-AV8BB-741-500	Hard Copy	12		On board

CIN, COURSE TITLE: C-646-3893 AV-8B Conventional Weapons Loading. Course C-646-3893, part of training track M-646-0143, is a new course for organizational weapons loading to be added to OTMS.

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Airborne AV-8B Weapons/Stores Loading Manual A1-AV8BB-LWS-000	Hard Copy	12		On board
Organizational Maintenance System Schematics, Weapons Control System A1-AV8BB-741-500	Hard Copy	12		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU 4030, NAMTRAGRU DET

LOCATION, UIC: NAS Mayport 66069

CIN, COURSE TITLE: C-122-3111 Air Launched Guided Missiles Intermediate Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Intermediate Maintenance Instructions with Illustrated Parts Breakdown, Maverick Laser Guided Missile AGM-65E, Maverick Infrared Guided Missile AGM-65F, Training Guided Missile A/A 37A-T9, Captive Air Training Missile CATM-65F, and Load Drill Trainer A/E 37A-T60, Afloat/NAS/MCAS AW-820CE-MIB-010	Hard Copy	8		On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard) Volume I NAVAIR 11-120A-1.1	Hard Copy	8		On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard) Volume II NAVAIR 11-120A-1.2	Hard Copy	8		On board
Ship Weapon Installation Manual, Laser Guided Missile AGM-65E and Infrared Guided Missile AGM-65F (Maverick) NAVAIR 11-120-58	Hard Copy	8		On board
Airborne Weapons Handling Equipment (Shipboard) NAVAIR 19-100-2	Hard Copy	8		On board
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard) NAVAIR 19-95-1	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU 4032, NAMTRAGRU DET

LOCATION, UIC: NAS Norfolk 66046

CIN, COURSE TITLE: C-122-3111 Air Launched Guided Missiles Intermediate Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Intermediate Maintenance Instructions with Illustrated Parts Breakdown, Maverick Laser Guided Missile AGM-65E, Maverick Infrared Guided Missile AGM-65F, Training Guided Missile A/A 37A-T9, Captive Air Training Missile CATM-65F, and Load Drill Trainer A/E 37A-T60, Afloat/NAS/MCAS AW-820CE-MIB-010	Hard Copy	8		On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard) Volume I NAVAIR 11-120A-1.1	Hard Copy	8		On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard) Volume II NAVAIR 11-120A-1.2	Hard Copy	8		On board
Ship Weapon Installation Manual, Laser Guided Missile AGM-65E and Infrared Guided Missile AGM-65F (Maverick) NAVAIR 11-120-58	Hard Copy	8		On board
Airborne Weapons Handling Equipment (Shipboard) NAVAIR 19-100-2	Hard Copy	8		On board
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard) NAVAIR 19-95-1	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: MTU 4033, NAMTRAGRU DET

LOCATION, UIC: NAS North Island 66065

CIN, COURSE TITLE: C-122-3111 Air Launched Guided Missiles Intermediate Maintenance

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Intermediate Maintenance Instructions with Illustrated Parts Breakdown, Maverick Laser Guided Missile AGM-65E, Maverick Infrared Guided Missile AGM-65F, Training Guided Missile A/A 37A-T9, Captive Air Training Missile CATM-65F, and Load Drill Trainer A/E 37A-T60, Afloat/NAS/MCAS AW-820CE-MIB-010	Hard Copy	8		On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard) Volume I NAVAIR 11-120A-1.1	Hard Copy	8		On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard) Volume II NAVAIR 11-120A-1.2	Hard Copy	8		On board
Ship Weapon Installation Manual, Laser Guided Missile AGM-65E and Infrared Guided Missile AGM-65F (Maverick) NAVAIR 11-120-58	Hard Copy	8		On board
Airborne Weapons Handling Equipment (Shipboard) NAVAIR 19-100-2	Hard Copy	8		On board
Airborne Weapons/Stores Checklist, Transporting and Loading Equipment Configuration (Shipboard) NAVAIR 19-95-1	Hard Copy	8		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: VMAT-203 FREST
LOCATION, UIC: MCAS Cherry Point 45483
CIN, COURSE TITLE: C-646-3105 Aviation Ordnance Intermediate Maintenance Technician

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
LAU-117 Maintenance Aircraft Guided Missile Launcher Operations and Intermediate Maintenance Instructions with IPB NA 11-75A-79	Hard Copy	8		On board
Intermediate Maintenance Instructions with Illustrated Parts Breakdown, Maverick Laser Guided Missile AGM-65E, Maverick Infrared Guided Missile AGM-65F, Training Guided Missile A/A 37A-T9, Captive Air Training Missile CATM-65F, and Load Drill Trainer A/E 37A-T60, Afloat/NAS/MCAS AW-820CE-MIB-010	Hard Copy	8		On board
Airborne Weapons Assembly Manual Air Launched Guided Missiles and Selected Vehicles Volume I Air Intercept Missiles (Tactical) Organizational and Intermediate Activities NA 11-140-6.1	Hard Copy	8		On board

TRAINING ACTIVITY: NAVSCOLEOD
LOCATION, UIC: NAVSURFWARCEN Indian Head 30446
CIN, COURSE TITLE: A-431-0011 EOD Phase II (Navy)
A-431-0012 EOD Phase II

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book EODB6OG-02-2-34-5	CD-ROM	150		On board

TRAINING ACTIVITY: EODTEU ONE
LOCATION, UIC: NAS Barbers Point 30202
CIN, COURSE TITLE: G-431-0001 EOD Pre-deployment Team Training

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book EODB6OG-02-2-34-5	CD-ROM	4		On board

IV.B.3. TECHNICAL MANUALS

TRAINING ACTIVITY: EODTEU TWO

LOCATION, UIC: Fort Story 43505

CIN, COURSE TITLE: G-431-0001 EOD Pre-deployment Team Training

TECHNICAL MANUAL TITLE, NUMBER	MEDIUM	QUANT REQD	DATE REQD	STATUS
Explosive Ordnance Disposal Book EODB6OG-02-2-34-5	CD-ROM	4		On board

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
PDA	Commence analysis of manpower personnel, and training requirements		Completed
DCNO/DMSO/CMC SPONSOR	Program manpower and training resource requirements		Completed
PDA	Fleet Introduction		Completed
PDA	ILSP Promulgated		Completed
TA	Commence Follow-on/replacement training		Completed
DA	Promulgate update Draft NTP to ALCON for review and comment		Completed
PDA	Proposed NTP submitted to OPNAV		Completed
DCNO (MPT)	Approve and promulgate NTP		Completed
TSA	Commence Initial Training		Completed
TSA	Technical Training Equipment delivered		Completed
TSA	Curricula material delivered		Completed
TSA	Develop Preliminary Draft NTSP (Update)		Completed

PART VI - ACTION ITEMS / ACTION REQUIRED

ACTION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS
Training Equipment Shortfalls for C-646-3105 See note below.	PMA205/NAMTRAGRU		Open

Note: As noted in NAMTRAGRU DET Cherry Point letter 4400/OIC of 14 June 1996, the following list of significant equipment reflects shortages for course C-646-3105, due to begin in October 1996:

NOMENCLATURE	ESL	AVAILABLE FROM:	
		VMFAT-101	HMT-303
LAU-7	2	2	1
LAU-115	2	2	0
LAU-116	4	0	0
LAU-117	4	1	0
LAU-118	4	0	0
LAU-127	4	0	0
SUU-62	2	0	0
SUU-63	2	0	0
AERO-7	2	3	0
Ejector Rack	4	0	2
BRU-20	4	0	2
BRU-32	2	0	0
BRU-33	2	2	0
BRU-36	4	0	0
BRU-42	4	1	0
ADU-299	2	2	0
LALS*	2	0	0
TOW Launcher	2	0	0
Hellfire Launcher	2	0	0
M197 20mm Gun	2	0	0
M61 20mm Gun	1	1	0
GAU-12 25mm Gun	1	0	0
XM218 .50 cal MG	2	0	0
GAU-17 7.62mm MG	2	0	0
M240D 7.62mm MG	2	0	0
XM89E1 Feeder	2	0	0
MAU-56 Feeder	2	0	0
AH-1 Turret System	4	0	2
Turret Assembly Stand	4	0	2

* LALS consists of five components, FREST 101 will be sending only two of the five.

PART VII - MAVERICK POINTS OF CONTACT

NAME, ACTIVITY, CODE	FUNCTION	TELEPHONE NUMBERS COMMERCIAL, DSN, FAX INTERNET ADDRESS
CAPT F. Smith CNO N889H	Aviation Technical Training	(703) 604-7730, DSN 664 (703) 604-6969, (fax) smith.frank@hq.navy.mil
MSGT Anderson CNO N889H6	NTSP Policy	(703) 604-7722, DSN 664 (703) 604-6939 (fax) anderson.david@hq.navy.mil
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MAJ Charles Kelly CNO N880D5	Program/Resource Sponsor	(703) 614-2760, DSN 224 kelly.charles@hq.navy.mil
MAJ Ray Rowland CNO N881C8	Maintenance Resource Sponsor	(703) 604-7773, DSN 664 (703) 604-6977 (fax) Rowland.Raymond@hq.navy.mil
LTCOL W. Robinette CMC ASIC39 ASIC39Q ASL-30	Aviation Ordnance Coordinator/CMC Sponsor	(703) 614-1133, DSN 224 (703) 697-7343 (fax) robinette_jrw@mcp-smtp3.usmc.mil
LTCOL Klauser MPD Quantico C463FT	Formal Training Plans	(703) 240-3065, DSN 278
LTCOL J. A. Haig MCCDC C532	Force Planning and Development	(703) 784-6180. DSN 278
LCDR T. Kennedy BUPERS PERS-404	Aviation Ordnance Manpower Distribution	(703) 693-1381, DSN 223
AEC A. Davila BUPERS PERS-221C1	Enlisted Plans and Career Management Division	(703) 695-3780 (703) 614-6502 (fax) p221c1@bupers.navy.mil
CAPT R. Russel NAVAIRSYSCOM PMA242	Program Manager	(301) 757-7422, DSN 757 (301) 757-7418 (fax) russelrw.jfk@navair.navy.mil
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PART VII - MAVERICK POINTS OF CONTACT

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Richard Brown NAVAIRSYSCOM AIR-3.1.1K	APML Launchers (LAU/117A)	(301) 757-7455, DSN 757 (301) 757-7446 (fax) brownr.jfk@navair.navy.mil
AOCS C. Jones NAVAIRSYSCOM PMA205-3H1	Maverick Training System Program Manager (TSPM)	(301) 757-8100, DSN 757 (301) 757-8079 (fax) jonescd.jfk@navair.navy.mil
AOCM T. Carroll NAMTTRAGRU HQ N2412	Air Launched Weapons Technical Coordinator	(904) 452-8911, DSN 922 (904) 452-9769 (fax) namtghq.n2412@smtp.cnet.navy.mil
Ken Claunch NAWCWPNS China Lake 341000D	Fleet Support Manager	(760) 927-1218, DSN 469 (760) 927-2616 (fax) ken_claunch@imdgw.chinalake.navy.mil
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AVCM R. Lovern NAVAIRSYSCOM AIR-3.4.1	NTSP Manager	(301) 757-9183, DSN 757 (301) 342-4723 (fax) lovern_roger%pax8b@mr.nawcad.navy.mil
ATCS D. Butler NAVAIRSYSCOM AIR-3.4.1	NTSP Coordinator	(301) 757-9188, DSN 757 (301) 342-4723 (fax) butler_dell%pax8b@mr.nawcad.navy.mil