

Training Aids, Devices, Simulations, Simulators



USAG, DPTMS, FORT HOOD, TX.

**FORT HOOD TRAINING SUPPORT CENTER
2010
DIGITAL CATALOG**

<http://www.hood.army.mil/tsc/>

**Version 8.2
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TADSS LISTING BY SERIES:

01-AVIATION
03-CHEMICAL
05-ENGINEER
06-FIELD ARTILLERY
07-INFANTRY
08-MEDICAL
09-ORDNANCE
10-QUARTER MASTER
11-SIGNAL
17-ARMOR
20-GENERAL
21-INDIVIDUAL
23-WEAPONS
30-INTELLIGENCE-OPPOSING FORCE
44-AIR DEFENSE ARTILLERY
55-TRANSPORTATION
99-MISCELLANEOUS



INTRODUCTION

TRAINING SUPPORT CENTER CATALOG

Welcome to the world of Fort Hood's Training Support Center (TSC)! We, at the TSC are proud to present the all new 2010 Training Support Catalog in an electronic format. Our purpose is to provide every supported unit and soldier with the right training support product at the right time to make your training at Fort Hood real and relevant.

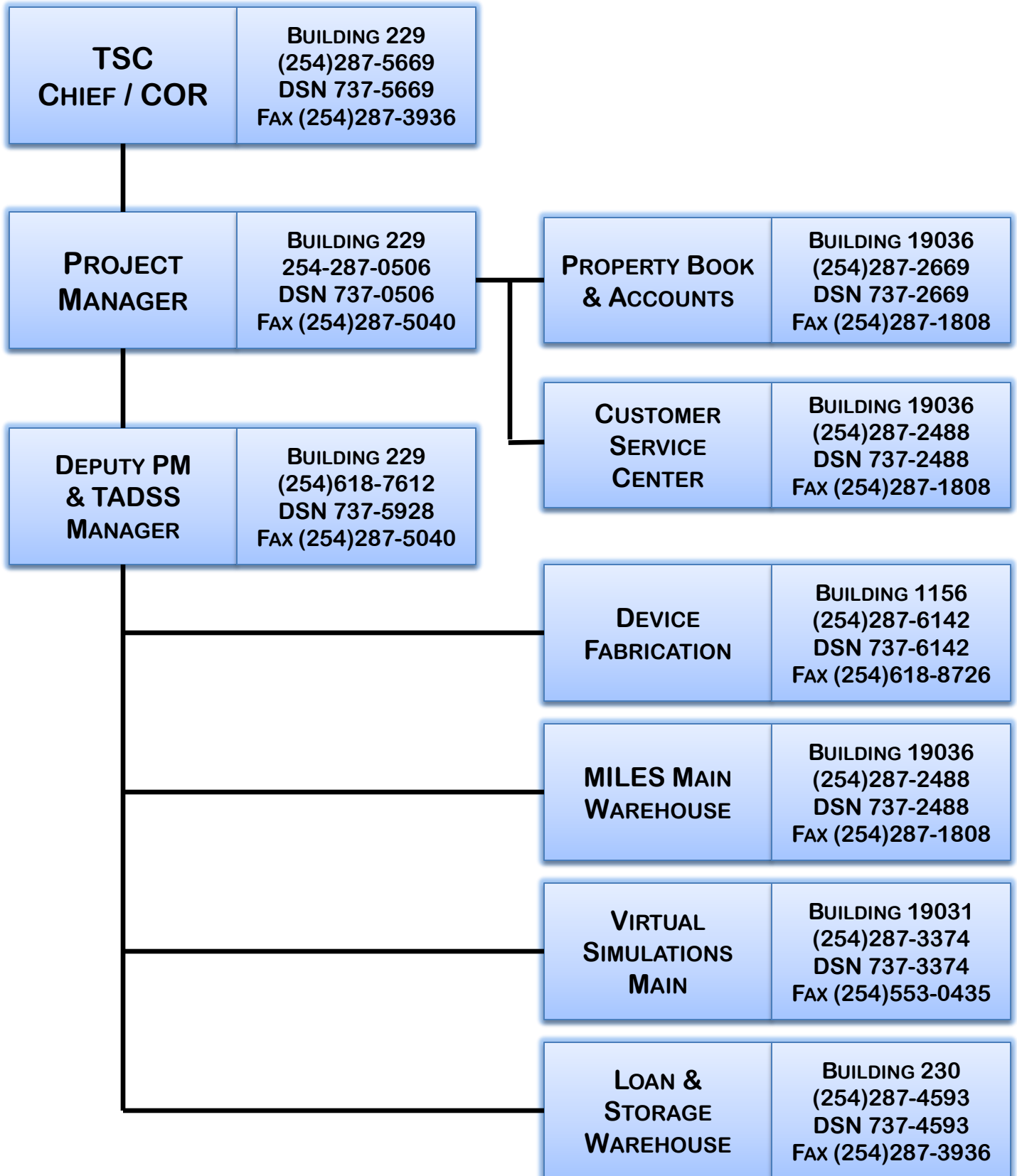
Accessing our catalog through the web permits users to selectively scan and print the pages that pertain to their training requirements. The web site also offers us the opportunity to provide interim updates as new products become available. A CD-ROM version is available to those that do not have web access. We're confident that the information in the catalog, coupled with the information on our web pages, will provide you, our valued customers, with the most comprehensive and up-to-date information possible.

Please don't hesitate to call our Customer Service Center at (254)287-2488 for information and expert guidance on all TSC products and services. Our Customer Service Center operating hours are Monday through Friday, 0730-1600. We frequently provide after-hours services if the need arises.

Our most valuable resource, our TSC team members, are committed to provide you products and services of the highest quality every time. Your feedback comments and valuable suggestions are always welcome and help us to achieve this goal. The Fort Hood Training Support Center team takes great pride in satisfying our customers training needs.

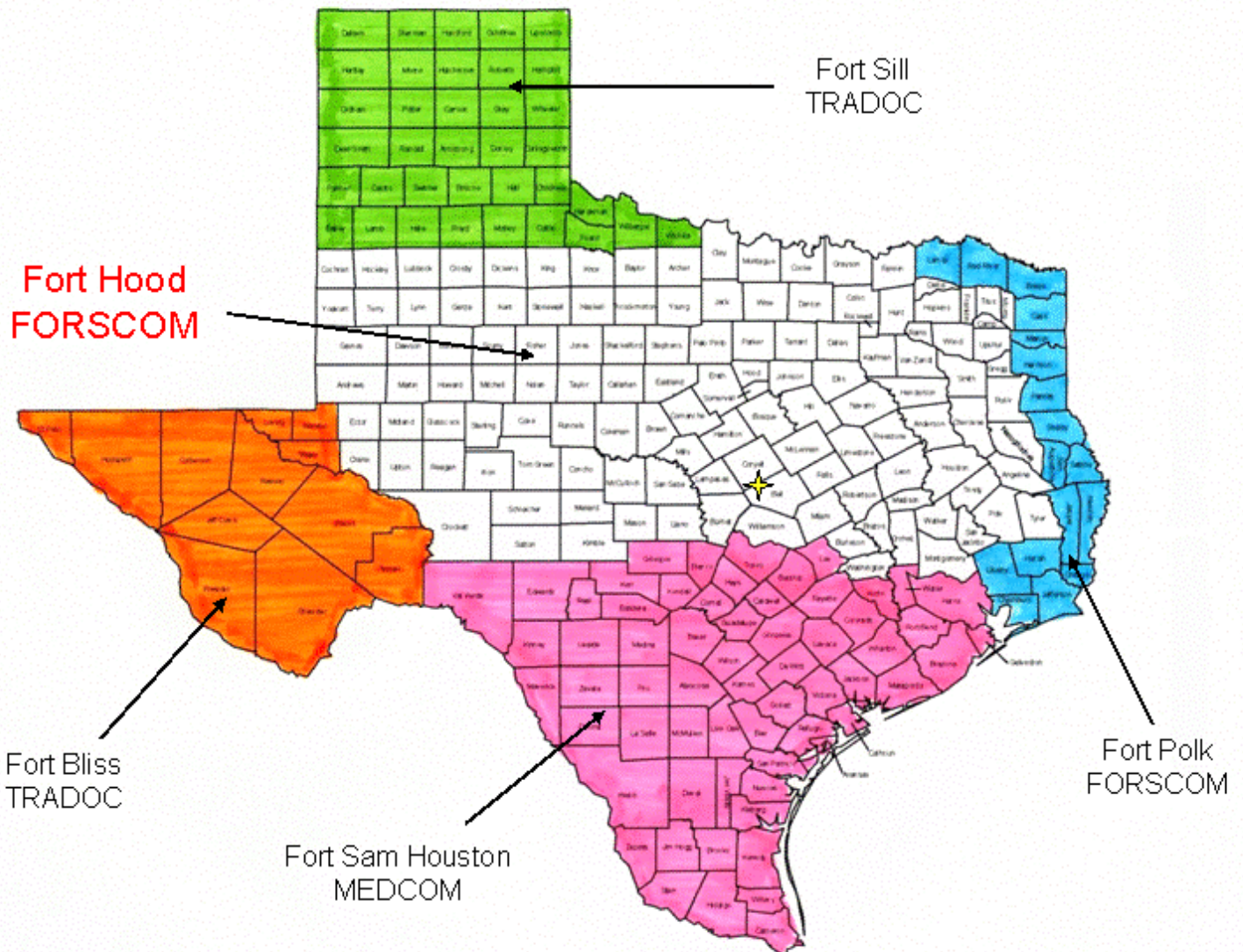
Your training success is our business!

PHONE LIST AND ORGANIZATION



TSC AREA OF RESPONSIBILITY

AR5-9, Table C-9, Training Support Center Responsibilities



TSC AREA OF RESPONSIBILITY

Cont.

ALPHABETICAL LISTING OF TEXAS COUNTIES SUPPORTED BY FORT HOOD TSC

Anderson	Eastland	King	Rusk
Andrews	Ector	Knox	San Jacinto
Angelina	Ellis	Lampasas	San Saba
Archer	Falls	Leon	Shackelford
Baylor	Fannin	Limestone	Schleicher
Bell	Franklin	Llano	Scurry
Borden	Erath	Lubbock	Smith
Bosque	Fisher	Lynn	Stephens
Brazos	Freestone	Madison	Sterling
Brown	Gaines	Martin	Somervell
Burleson	Garza	Mason	Stonewall
Burnet	Glasscock	McCulloch	Sutton
Callahan	Grayson	McLennan	Tarrant
Camp	Gregg	Menard	Taylor
Cherokee	Grimes	Midland	Terry
Clay	Hamilton	Milam	Throckmorton
Cochran	Haskell	Mills	Tom Green
Coke	Henderson	Mitchell	Titus
Coleman	Hill	Montague	Trinity
Collin	Hockley	Montgomery	Tyler
Comanche	Hood	Morris	Upshur
Concho	Hopkins	Nacogdoches	Upton
Cooke	Houston	Navarro	Walker
Coryell	Howard	Nolan	Washington
Crane	Hunt	Palo Pinto	Williamson
Crockett	Irion	Parker	Wise
Crosby	Jack	Polk	Wood
Dallas	Johnson	Rains	Yoakum
Dawson	Jones	Reagan	Young
Delta	Kaufman	Robertson	Van Zandt
Denton	Kent	Rockwall	
Dickens	Kimble	Runnels	

Total Counties Supported: 126

HOW TO ACQUIRE TSC PRODUCTS & SERVICES

SERVICES	FILL OUT	SUBMIT	PHONE #	COMMENTS
<u>VIRTUAL SIMULATIONS:</u> CFFT GUARDFIST FSCATT EST 2000 HEAT IMTS CDT/MV	RFMSS Request	RFMSS	PH (254) 287-3374 Fax (254) 553-0435	» Plan 4 to 6 weeks out for best results » Be sure to meet all I/O requirements before scheduling.
TSC PROPERTY BOOK AND ACCOUNT MANAGEMENT	DA Form 1687	PBO BLDG 19036	PH (254)287-2669 Fax (254)287-3936	» DA Form 1687 for signature authority
CLASSES	FILL OUT	SUBMIT	PHONE #	COMMENTS
<u>TADSS FAMILIARIZATION TRAINING:</u> PGS TSV MILES	DA Form 3903	MILES MAIN BLDG 19036	PH (254) 287-2488 FAX (254)287-1808	» Call to arrange date/time
<u>INSTRUCTOR/OPERATOR CLASSES:</u> EST 2000 HEAT CFFT FSCATT CDT/MV	Call to Schedule	OFT BLDG 19031	PH (254)287-3374 Fax (254)553-0435	» Call for dates/times » Plan 4 to 6 weeks out for best results » Some classes are limited in size.
PRODUCTS	FILL OUT	SUBMIT	PHONE #	COMMENTS
MILES PGS TSV I-MILES CREW Devices	DA Form 3903 FHT Form 25-x22-1 FHT Form 25-x22-3	MILES MAIN BLDG 19036	PH (254) 287-2488 FAX (254)287-1808	» Submit request at least 30 days in advance
All non-MILES TADSS GTAs	FHT Form 25-x22	Loan & Storage BLDG 230	PH (254)287-4593 FAX (254)288-4822	» Submit request at least 48 hours in advance
Training Device Fabrication	DA Form 3903	Customer Service Center B 19036	PH (254)287-2488 FAX (254)287-1808	» Plan ahead as we are usually booked 3 months out

TSC PROPERTY BOOK AND ACCOUNTS

TSC Property Book Section

Bldg 19036 North Ave.

PH: (254)287-2669

Fax: (254)287-1808

TSC ACCOUNTS

What is a TSC Account? A TSC account establishes property accountability. This in turn authorizes the release of products and services for your unit. The following information provides some simple steps and guidelines that will keep your TSC account up to par!

Here are some simple rules:

- Only ONE account per battalion, squadron, or detachment.
- Up to 8 authorized signatures per company level unit (2 x DA Forms 1687's). Typically, up to 32 authorized signatures per battalion (8 x DA Form 1687's).

Establish an account:

- Complete a memo to the TSC Chief (see our PBO in Building 19036).
- Complete DA Form 1687, Delegation of Authority (3 copies), signed by the Unit Commander or unit designated TSC Account Holder (E6/GS-5 or above).
- Up to 8 personnel per company level unit may be authorized to Request/Receive property.
- Must be within the geographic responsibility of Ft. Hood (AR 5-9).

Change/Renew an account:

- Conduct joint 100% inventory of all TSC equipment on hand receipt at change of TSC account holder.
- Submit new DA form 1687 at change of TSC account holder or authorized personnel on the account.
- Discrepancies reported on relief documents and updated DA Form 2062 is signed.
- A lapsed account could result in a frozen account. File new DA Form 1687 annually with authorized signatures if account is more than one year old. If you forget, we will notify your battalion account holder.

Close an account:

- Accounts are closed if they expire, are no longer required, or upon unit inactivation. Turn-in loaned equipment and account for property to the TSC.

TSC PROPERTY BOOK AND ACCOUNTS

Cont.

Delinquent Accounts

While we're on the subject of accounts, let's talk about delinquent accounts. An account is delinquent whenever you are late in turning in either MILES/TADSS equipment or individual training aids (including non-expendable GTAs).

Failing to turn-in training aids on time is a lose-lose situation.

- Your unit looks bad, the chain of command is embarrassed and no one is happy.
- You cannot borrow any additional equipment from any warehouse without special authorization.
- Another unit is deprived of equipment that they have reserved for training.

Property Accountability

Property Accountability is important. Damage/Loss of loaned TSC equipment can cause the account to be in jeopardy. Following these rules will keep your account in the clear.

- The battalion account holder is responsible for the entire account. This means that he or she must initiate the Financial Liability of Property Loss Investigation, if required.
- Damage/Loss of TSC equipment requiring a Commander's Statement must be signed by the Company Level Commander and reviewed by the Battalion Commander. Refer to AR 735-5 or contact our property administrator at 287-2669 for details. Sample statements provided upon request.
- **Your account must be renewed annually.**



Remember... keeping your account clear and on time is a win-win for the Fort Hood training community!



CUSTOMER SERVICE CENTERS

The vast majority of Soldiers who come in contact with TSC products and services will make contact through our customer service representatives.

TRAINING DEVICE FABRICATION AND MILES

CUSTOMER SERVICE CENTER

☎ Call (254)287-2488 for information

Located in Bldg 19036 at North Ave.

Place work orders for Training Device Fabrication and MILES and Gunnery training aids or for expert information and guidance for all your training needs. The Training Device Fabrication and MILES Customer Service Center is open from 0730-1600 hours, Monday through Friday to include training holidays to take care of customer requests.

VIRTUAL SIMULATIONS CUSTOMER SERVICE CENTER

☎ Call (254)287-3374 for information

Located in Bldg 19031 on 53rd Street

TSC Virtual Simulations are scheduled through the Range Facility Management Scheduling System (RFMSS) under Range ID "TSC." The customer service representative can assist units with RFMSS scheduling or provide expert information on customer requirements for the use of all TSC Virtual Simulation systems. The Virtual Simulations Customer Service Center is open from 0730-1600 hours, Monday through Friday to include training holidays to take care of customer requests.

CUSTOMER SERVICE CENTERS

Cont.

RFMSS SCHEDULING OF TSC SIMULATIONS

TIPS TO REDUCE CONFLICTS WHEN SCHEDULING ON RFMSS

- Must include start and end times with your dates
- Provide a reliable POC and phone number. Please verify the auto fill phone number on RFMSS is still accurate.
- Include additional unit data (company/battalion) under the POC block if not provided by Sponsor drop down list
- Provide I/O Rank and Name for requested system
- Please follow up your request by checking the status either on RFMSS or by calling the scheduling office at 287-3374
- If your request is still pending after 24 hours then there is an issue and we haven't been able to get a hold of anyone with the listed phone number on the request to resolve it.
- The more information that you provide us on the request, the better we can serve your training requirement.

FILL OUT THE REQUEST COMPLETELY

New Request Form

Request HOLD

Range Control: TSC

RCNI: _____ Priority: 0

* Unit: _____ * Start Date: 15/01/10 * End Date: 15/01/10

Local Zulu

Submitted Date: 14/01/10 10:19 L

Sponsor: _____ P.O.C.: _____ Days Until Training: 1

IO Name: _____ Unit: _____ Phone: _____

Phone #: _____

Click the space below to insert a record

Event	Time	Request	* Event	* Facility/Airspace	* Training Start Date and Time	Training End Date and Time	Max. Altitude	Vertical Hazard	Max. Ord	No. of Person
<input checked="" type="checkbox"/>					15/01/10 00:00 L	15/01/10 23:59 L	0	0	0	0

Memo Special Instruction Unit Activity

Existing Memo: _____ New Memo: _____ Message Template

Communication Vehicle Aircraft Airspace *Weapon/Ammo Conflict Restriction Support Items User Fields

OK Cancel Help

TRAINING DEVICE FABRICATION SHOP

The TSC Training Device Fabrication Shop

Bldg 1156 on Hell on Wheels Blvd just off 27th ST.

PH: (254)287-6142

Fax: (254)618-8726

The Training Device Fabrication Shop provides a local design and fabrication capability for training aids and devices not available through normal supply and equipment channels.

Examples of items fabricated:

- Terrain Boards, Map Boards, METL Boards, Sand Tables
- Training Mines and Training IEDs for recognition training
- Functional triggers to be used with Training IEDs
- Mock-ups
- Land Navigation field stakes



EFP Array in Fake Rock Training IED



Terrain Model



Dead Dog Training IED

Requesting Fabrication:

Request for device fabrication are submitted on DA Form 3909 to Customer Service Center located in building 19036 (MILES Main Warehouse) or directly to the Training Device Fabrication Shop. For repair or maintenance of any locally produced training aid or device, make coordination with shop personnel. Consultations are provided upon request for complex items or if your unsure of what exactly you need for your training requirement. **Any items requested must not be available through normal procurement channels or on the open market.**



Things to know:

- Please note that all training aids and devices produced by the TSC Device Fabrication Shop are the property of the U.S. Army.
- Submit request well in advance as we are usually booked 3 months out.
- Request must support training requirements.



Mock MRAP (WSTC)

LOAN & STORAGE WAREHOUSE

The TSC Loan & Storage Warehouse

Bldg 230 on 42nd Street and Battalion Ave

PH: (254)287-4593

Fax: (254)288-4822

The Loan & Storage Warehouse provides a wide selection of equipment for short-term loan. A complete listing of TADSS can be found in this catalog.

Key Training Aids and Devices:

- First Aid Training Aids
 - Resuscitation Manikins
 - IV Arms
 - War Wound/Moulage Kits
 - Rescue Randy Manikins

- Preparatory Marksmanship Instruction (PMI) Training Aids
 - Rifle Rest
 - Target Paddles
 - Riddle Device
 - M16/M4 Sighting Device
 - Laser Marksmanship Training System (LMTS)

- Simulated Tank Rounds
 - 120mm
 - Sabot
 - HEAT
 - MPAT

- Sub-caliber and Marking Round Conversion Kits
 - AT4 Sub-caliber trainers
 - Aimtest 120mm Sub-caliber trainer
 - Close Combat Mission Capability Kit (CCMCK) marking round conversion kits
 - M9 conversion bolt
 - M16/M4 conversion bolt
 - M249 conversion bolt



Ordnance Kit



Mock Rifles



War Wound Kit

LOAN & STORAGE WAREHOUSE

Cont.

- Other Training Aids and Devices
 - Plastic M16/M4 1:1 Scale Replicas
 - Funeral Detail Coffins and Flags
 - Small Arms Noise Simulator
 - Artillery/IED Noise Simulator
 - Vehicle ID kits
 - Grenade ID kits
 - Training IED recognition kits
 - Arabic Attire for role playing

Request:

Request for TADSS should be received by the Loan & Storage Warehouse a minimum of **two working days** prior to the scheduled date of pick up. TADSS request forms are available at the Loan & Storage Warehouse.



Artillery/IED Noise Simulator



Mock Suicide Bomber Vest



Cultural Attire for Role Playing



T120 IED Simulator



Things to Know:

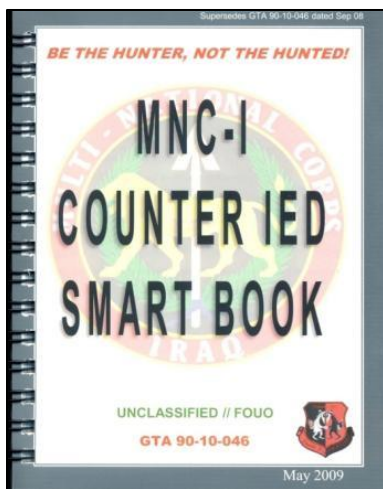
Request for loans should be submitted on FHT Form 25-x22 directly to the Loan & Storage Warehouse or by Fax. The period of loan should be requested only for the dates that the items are required to support instruction or training and will be indicated on the loan request.

Items should be returned on the due date so that the equipment can be made available to other units or organizations. Units or organizations not returning items on the date indicated on the request are considered **DELINQUENT** and could result in the freezing of the entire TSC account.

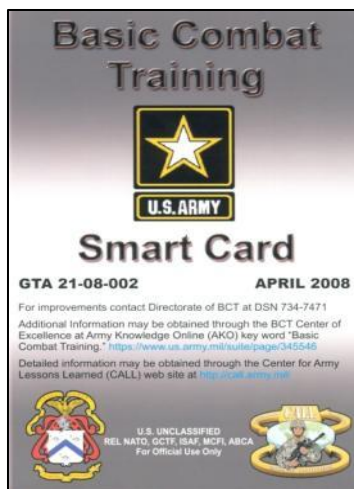
GRAPHIC TRAINING AIDS

The TSC Loan & Storage Warehouse Bldg 230 on 42nd Street and Battalion Ave PH: (254)287-4593 Fax: (254)288-4822

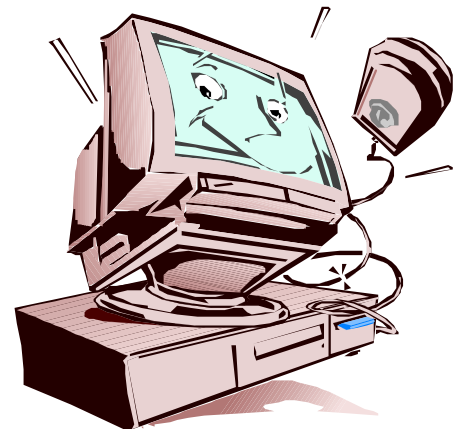
- We have a large selection of GTAs in stock for issue. If we don't have it – we can get it, generally within two weeks.
- You do NOT have to be on signature card to get a majority of GTAs available.
- Some GTAs are *non-expendable*. That means that they are loaned and returnable (IE. Protractors). You DO have to be on Signature Card, DA Form 1687 to sign for these GTAs.
- Request GTAs on FHT Form 25-x22, available at Loan & Storage Warehouse



Example GTA



Example GTA



GTAs On-Line

If we don't have what you need and you need yours right away try getting them on line. The Reimer Digital Library (RDL) site has moved to:

<http://www.train.army.mil>

Simply go to the *Library Search* under *RDL Services* and follow directions. You can maximize these services by using your *Army Knowledge On Line (AKO)* account.

Disclaimer for External Link

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MILES WAREHOUSE

TSC MILES Main Warehouse

Bldg 19036 North Ave and Rod & Gun Club Loop

PH: (254)287-2488

Fax: (254)287-1808

The TSC MILES Warehouses provide the following:

- Loan, Issue, Receive, Store, and Maintain MILES and Gunnery Systems
- Provide Familiarization Training
- Provide field support for Force-on-Force Training and Gunnery Through Contact Teams in the field



Things to Know:

Request for TADSS equipment are made at the MILES Main Warehouse, on DA Form 3909, FHT Form 25-x22-1, and FHT Form 25-x22-3 (provided at the warehouse). Individuals wishing to draw TADSS must be on a current TSC Account DA 1687 Signature Card with his or her unit in order to draw out equipment.

TADSS East and West Warehouse

For Customers' convenience, TSC has an East and West warehouse for pick up and drop off of TADSS equipment. All request for TADSS equipment must go through the TSC MILES Main Warehouse.



MILES East Warehouse is located in building 56009 on Murphy Road next to Iron Horse Scaled Range and just down the hill from Range Control
PH: (254)288-9386
Fax: (254)288-9391

MILES West Warehouse is located in building 56138 on West Range Road next to Pegasus Scaled Range.
PH: (254)288-9378
Fax: (254)288-9376

MILES WAREHOUSE

Cont.

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES)

MILES is a family of training systems which uses lasers to simulate the effects of direct fire weapons at their operational ranges. MILES operates in a fully integrated tactical training environment. MILES is available for the individual Soldier, M16/M4 Rifle, M240, M249, Sniper Rifle, M2, MK19, HMMWV Series, MRAP, M113 series, M2/M3A2, M1, OH58, AH64 and Javelin. We currently have a mix of the Legacy MILES and the new IMILES (pictured below). See the TADSS listing portion of this catalog for what MILES gear is available.



**Universal Controller Device
(UCD) MILES**



**Wireless Independent Target System
(WITS) MILES**



**Individual Weapon System
(IWS) MILES**



**Shoulder Launched Munitions
(SLM) MILES**



Things to Know:

Request for MILES equipment can be made at the TSC MILES Main Warehouse on DA Form 3903, FHT Form 25-x22-1, and FHT Form 25-x22-3 or faxed to (254)287-1808. Request for MILES equipment should be made at least 30 days in advance. In the event we do not have enough on hand or we simply do not have the item requested, the 30 days gives us a window to contact the Army Training Support Center for outside support.

MILES WAREHOUSE

Cont.

THRU-SIGHT VIDEO (TSV)

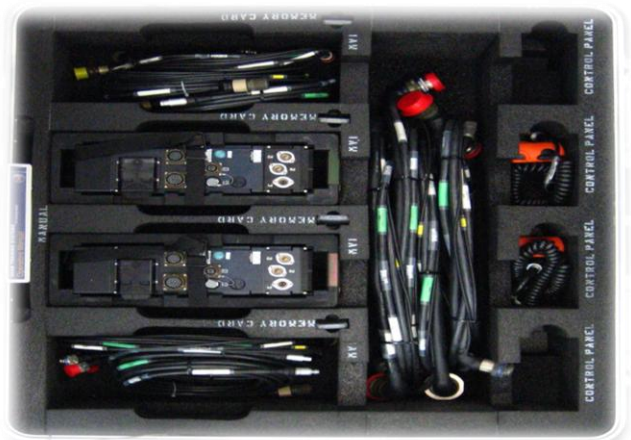
TSV is used for After Action Reviews (AAR) for gunnery and tactical training of Tank and Bradley crews. TSV consist of a TV camera linked to the gunner's primary sight. The capability to record the gunner's sight image on video and crew communications on audio provides an added dimension to training exercises reviews. Leaders can verify gunner's performance and assess training effectiveness by reviewing video footage. Monitoring gunnery from range towers provides real time data for on the spot correction to enhance gunner's performance.



Sample Video Footage from TSV



TSV-R Kit



MMR Kit



Things to Know:

Request for TSV equipment can be made at the TSC MILES Main Warehouse on DA Form 3903, FHT Form 25-x22-1, and FHT Form 25-x22-3 or faxed to (254)287-1808. Request for TSV equipment should be made at least 30 days in advance. In the event we do not have enough on hand or we simply do not have the item requested, the 30 days gives us a window to contact the Army Training Support Center for outside support.

CONTACT TEAMS

Upon request, TSC has the capability to provide Contact Teams that support units in the field and/or on Gunnery Ranges for:

- On the spot repair and troubleshooting
- Direct Exchange of damaged, defective, and lost equipment.



Things to Know:

Request for Contact Team support can be made at the TSC MILES Main Warehouse, Building 19036, on a DA Form 3903. Request may be faxed to (254)287-1808. For additional information, call (254)287-2488.



Onsite PGS support

MILES WAREHOUSE

Cont.

CREW DEVICES

TSC MILES Warehouse has the CREW devices pictured below. Available for training.

- A large quantity of UAH at the PDTE Motor Pool have the installation kits and antennae mounted in the vehicles. Units are only required to draw the Primary Unit of the CREW-2.
- CREW devices can be drawn out for classroom instruction as well.
- Used with the Interrupt Device, the CREW devices can defeat the IEDES and other Training IED for realism.
- Laptops and PDAs are available to capture events and for EWO training.

CREW-2

Primary Unit

Remote Control Unit



CVRJ



MMBJ



RECEIVER / TRANSMITTER

REMOTE CONTROL UNIT (RCU)



RECEIVER / TRANSMITTER



Things to Know:

Request for any CREW Devices can be made at the TSC MILES Main Warehouse, Building 19036, on a DA Form 3903. Request may be faxed to (254)287-1808. For additional information, call (254)287-2488.

CONDUCT OF FIRE TRAINER

Conduct of Fire Trainers (COFT)

☎ **Call 287-2488 to schedule your unit.**

Scheduling done through the MILES Main Warehouse in Bldg 19036

East COFT Site located in near MILES East Warehouse and Range Control

West COFT Site located by MILES West Warehouse and Pegasus Scaled Range

The COFT is a gunnery training device for TC/gunner teams. Its primary purpose is to sustain basic gunnery skills and increase combat gunnery skills. The COFT places the TC and gunner in a realistically simulated crew station and presents them with a full range of computer-controlled engagement situations. The COFT produces full-color, computer-generated action scenes in which crew members interact with various target situations. Programmed exercises vary in target type and number, range, vehicle and target motion, visibility, and other complex conditions. The crew is in no danger, no fuel is consumed, and no ammunition is expended. The result is challenging, progressive gunnery training.

Available on Fort Hood: M-AGTS, BATS-G, and M2A2 ODS R-COFT-E



Mobile Advanced Gunnery Training System (M-AGTS)



Things to Know:

- Unit Master Gunners (MG) submit scheduling request through the MILES Main Warehouse located in Building 19036.
- All MG scheduling a COFT must be on a DA 1687 Signature Card with the TSC to sign for keys. See Property Book Section of this catalog.
- RFMSS used to determine unit priority of use for all COFT shelters.
- Unit MG is responsible for training and providing Instructor/Operators.

OBSERVED FIRE TRAINING FACILITY

Observed Fire Training (OFT) Facility

Bldg 19031 53rd Street

PH: (254)287-3374

Fax: (254)553-0435

Scheduling done through RFMSS under Range ID "TSC."

Call for I/O Classes.

Purpose of Trainer :

The Call-For-Fire Trainer (CFFT) is designed to provide quality training for the Fire Support Specialist MOS 13F, Field Artillery Officers, as well as a common observed fire trainer for all Soldiers, regardless of MOS.

Functional Description:

The CFFT supports all fire support missions; capable of depicting all current and future munitions. Provides realistic high fidelity virtual environments and intelligent friendly, opposing, and non-combatant simulated forces. Simulates mortar, artillery, naval gunfire, and Type II and Type III close air support on a variety of stationary and moving targets.

Key Benefits of the CFFT:

- Fort Sill, Fort Irwin, and Baghdad databases. Afghanistan database in near future.
- Supports Joint Fires Observer (JFO) certification
- Supports Type II and III CAS training
- Semi-automated forces add realism to training.



Enhanced Student Station



Instructor/Operator Station



Things to Know:

- Requires one certified I/O per system scheduled
- I/O course is conducted upon request by phone (287-3374)
- I/O course is two consecutive days. Three consecutive days if CFFT is to be signed out on loan.
- Candidates for I/O course should be familiar with Call For Fire procedures
- I/O course is limited to 5 students per class
- CFFT 1:12 Systems are available to be signed out and setup at the unit for training.

ENGAGEMENT SKILLS TRAINER 2000

Engagement Skills Trainer (EST) 2000 Facility

Bldg 22030 South Range Road

PH: (254)287-3374

Fax: (254)553-0435

Scheduling done through RFMSS under Range ID "TSC."

Call for I/O Classes.

Purpose of Trainer:

The Engagement Skills Trainer (EST) 2000 is a multipurpose weapons trainer that provides training support for both individual and crew-served weapons.

- Marksmanship Ranges for all weapon systems
- Scenario Training
 - Tactical Collective-Fire Control and Distribution
 - Shoot/Don't Shoot Judgmental-ROE

Weapons Supported:

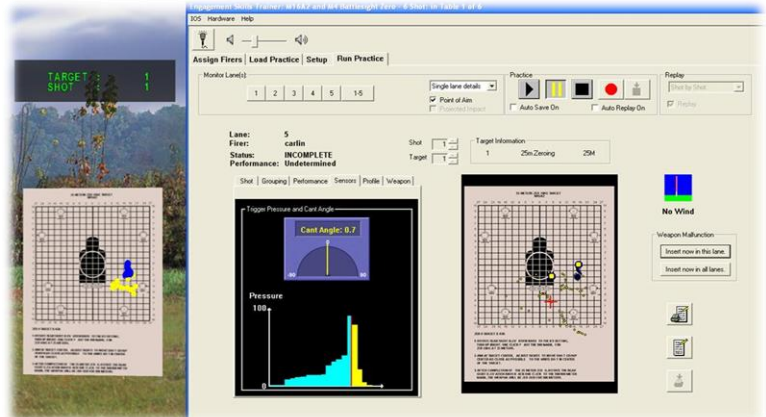
- | | | |
|---------------|---------------------|-------------------------|
| ✓ M16A2 Rifle | ✓ M4/M203 | ✓ M2 .50 Cal MG |
| ✓ M16A4 Rifle | ✓ M16/M203 | ✓ MK19 Grenade Launcher |
| ✓ M4 Carbine | ✓ M249 SAW | ✓ M136 AT4 |
| ✓ M9 Pistol | ✓ M240B Machine Gun | ✓ M1200 Shotgun |



Collective Scenario Engagement



Rifle Zero Range



Instructor/Operator Training Tools



Things to Know:

- Requires one certified I/O per site scheduled
- I/O course is 2 consecutive days
- Limit of 15 students per I/O class
- I/O course is scheduled by calling 287-3374
- When selecting personnel to be an EST I/O, it is recommended that they are familiar with running marksmanship ranges. All procedures and commands for simulated ranges are identical to live fire.

IMPROVED MOVING TARGET SIMULATOR

Improved Moving Target Simulator (IMTS) Facility

Bldg 19030 53rd Street

PH: (254)287-3374

Fax: (254)553-0435

Scheduling done through RFMSS under Range ID "TSC."

Call for I/O Classes.

Purpose of Trainer:

The IMTS is an **MOS specific training system** used to instruct ADA gunners in the use of the STINGER weapon system.

Functional Description:

The IMTS is a computer driven system that projects background scenes and moving targets on a 40 foot diameter hemispherical screen. IMTS uses Infrared radiation and IR countermeasures simulation to create realistic battlefield environments.



Instructor/Operator Station



Target Engagement

Key Benefits:

- Up to 3 moving targets; Friend or Foe
- Can accommodate 3 STINGER Gunners
- Records Student/Weapon activities for AAR
- Facility has classroom specifically for Vehicle Aircraft Recognition Training



Things to Know:

- Requires one I/O to operate the Stinger Dome
- Facility has restricted access when Dome is in use. Visitors must be coordinated when training event is in progress.
- Please see FH Regulation 350-8 on Phantom Clerk for specific requirements of the IMTS.
- Units is responsible for providing their own THT for training.

HMMWV EGRESS ASSISTANCE TRAINER

HMMWV Egress Assistance Trainer (HEAT) Facility

Bldg 22030/22037 South Range Road

PH: (254)287-3374

Fax: (254)553-0435

Scheduling done through RFMSS under Range ID "TSC."

Call for I/O Classes.



I/O Operating the HEAT

Note: A study reported by *Helicopter World* (now *Defense Helicopter*) magazine in September 2000 states that a person who is "egress trained" stands a 250 percent greater chance of survival than an untrained occupant when faced with a rollover egress emergency.



Things to Know:

- Units are responsible for providing two certified HEAT Instructor/Operators; one Combat Life Saver; and one designated vehicle for CASEVAC (POV or Military) per system scheduled.
- Risk Management Worksheet must be filled out to standard and signed by proper approving authority in the units chain of command.
- Instructor/Operator Course given upon request and candidates must be E5/SGT or above.
- Instructor/Operator course is limited to 15 students.
- Call [287-3374](tel:254-287-3374) to get additional information on the Instructor/Operator Course requirements and for scheduling.

Purpose of Trainer:

Teaching Soldiers, under controlled training conditions, the proper procedures to egress from an inverted high mobility multipurpose wheeled vehicle (HMMWV) will allow them to achieve self-control and overcome the natural fear and panic following the vehicle rollover. It will also reduce casualties and fatalities resulting from such rollovers, even when the vehicle is under attack, underwater, or on fire.



Soldiers egress from inverted HEAT

FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER

Fire Support Combined Arms Tactical Trainer (FSCATT) Howitzer Crew Trainer (HCT)

Bldg 19037 53rd Street

PH: (254)287-3374

Fax: (254)553-0435

Scheduling done through RFMSS under Range ID "TSC."

Call for I/O Classes.

Purpose of Trainer:

Train the gunnery team Cannon Crew member 13B.

Functional Description:

Shoots just like the real M109 SP Howitzer. Traverses 90 degrees left and right and elevates and cants just like the real thing. Uses dummy rounds, fuses, and charges. Has sensors that read the round, charge, fuse and fuse setting.



Key Benefits:

Cannon Crew Members can train on numerous individual and collective tasks. Soldiers can repeatedly practice crew drills to fire ammunitions and fuse combinations they've never fired before due to limitations. Has AAR printout. Future upgrade will provide for the interoperability with the CFPT to incorporate all aspects of indirect fire training from observer to gun.



Things to Know:

- **MOS specific training system** for 13B Cannon Crew Members
- Unit is required to provide one certified I/O
- I/O course is a two day course and is conducted upon request by phone (287-3374)
- Limit 5 students per I/O course

COMMON DRIVER TRAINER/MRAP VARIANT

Common Driver Trainer/MRAP Variant (CDT/MV)

Corner of Hell on Wheels Blvd and 20th Street

PH: (254)287-3374

Fax: (254)553-0435

Scheduling done through RFMSS under Range ID "TSC."

Call for I/O Classes.



Student Station



Instructor/Operator Station

Purpose of Trainer:

The CDT/MV provides initial and sustainment driver training. The device consists of a simulated vehicle cab, instructor/operator station, a visual system, aural/audio system, and After Action Review station.

Functional Description:

The trainer has a fully integrated six Degree-Of-Freedom motion system. The instructor, via the instructor/operator station, is capable of selecting a visual scene, viewing the visual scene, monitoring each trainee's performance and introducing malfunction and emergency control situations. This provides the capability to create realistic scenario-based training events mirroring the actual conditions under which Soldiers are expected to perform.



CDT/MV Trailer



Things to Know:

- Replicate the Caiman, Maxxpro, RG-33L, and RG-31.
- I/O must be a Company or Battalion Master Driver as indicated by appointment/additional duty orders from the commanding officer. A copy of these orders will be required to attend I/O training.
- I/O course is two consecutive days
- I/O course is limited to 4 students.
- A 48 hour notice is required in order to swap out MRAP Variant

TADSS LISTING

TADSS Listing by Series:

Training Aids, Devices, Simulations, and Simulators (TADSS) are broke down into series. The first two digits indicate the basic series of military equipment to which the training device relates and is consistent with those listed in AR 25-30. Use the hyperlinks to jump to the series you wish to view.



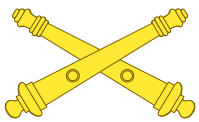
[01-AVIATION](#)



[03-CHEMICAL](#)



[05-ENGINEER](#)



[06-ARTILLERY](#)



[07-INFANTRY](#)



[08-MEDICAL](#)



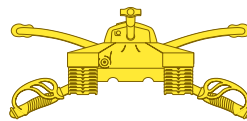
[09-ORDNANCE](#)



[10-QUARTER MASTER](#)



[11-SIGNAL](#)



[17-ARMOR](#)



[20-GENERAL](#)



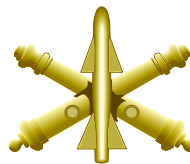
[21-INDIVIDUAL](#)



[23-WEAPONS](#)



[30-INTEL/OPPOSING](#)



[44-AIR DEFENSE](#)

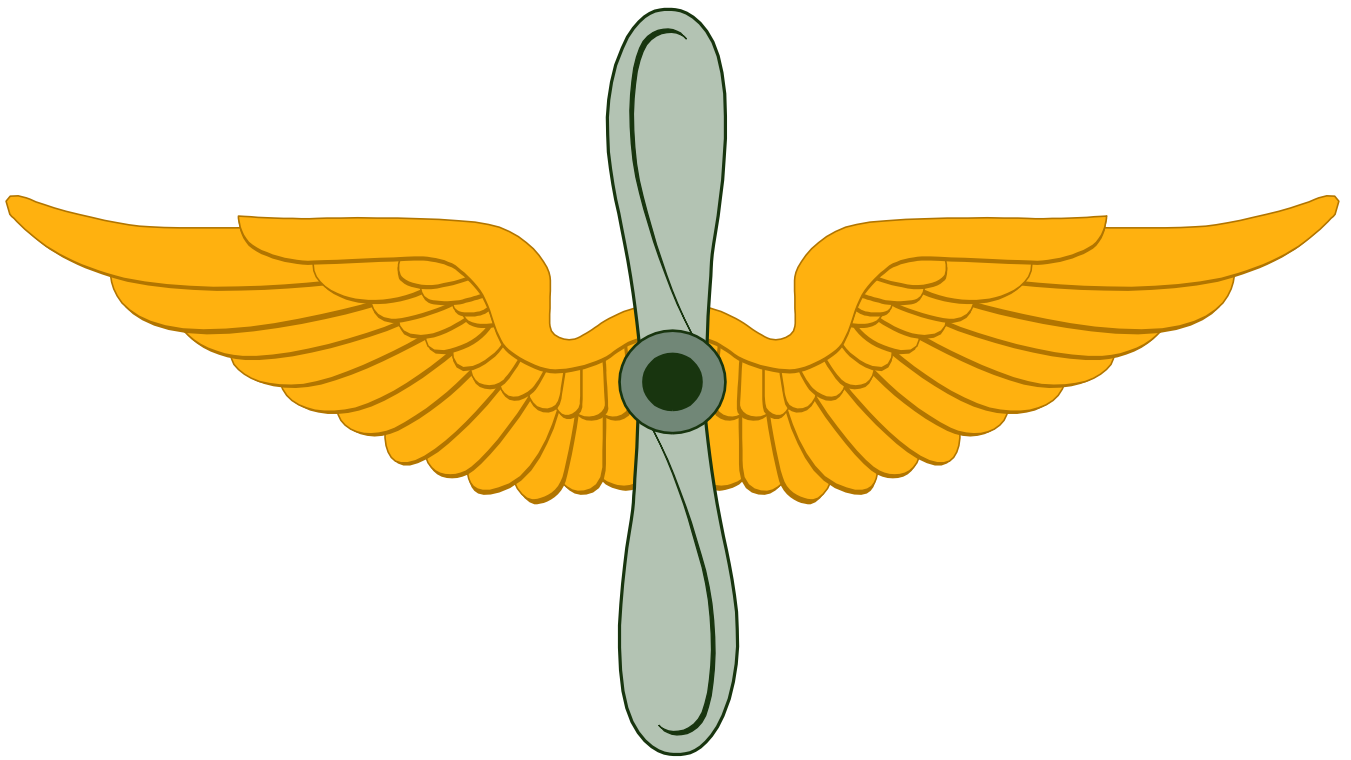


[55-TRANSPORTATION](#)

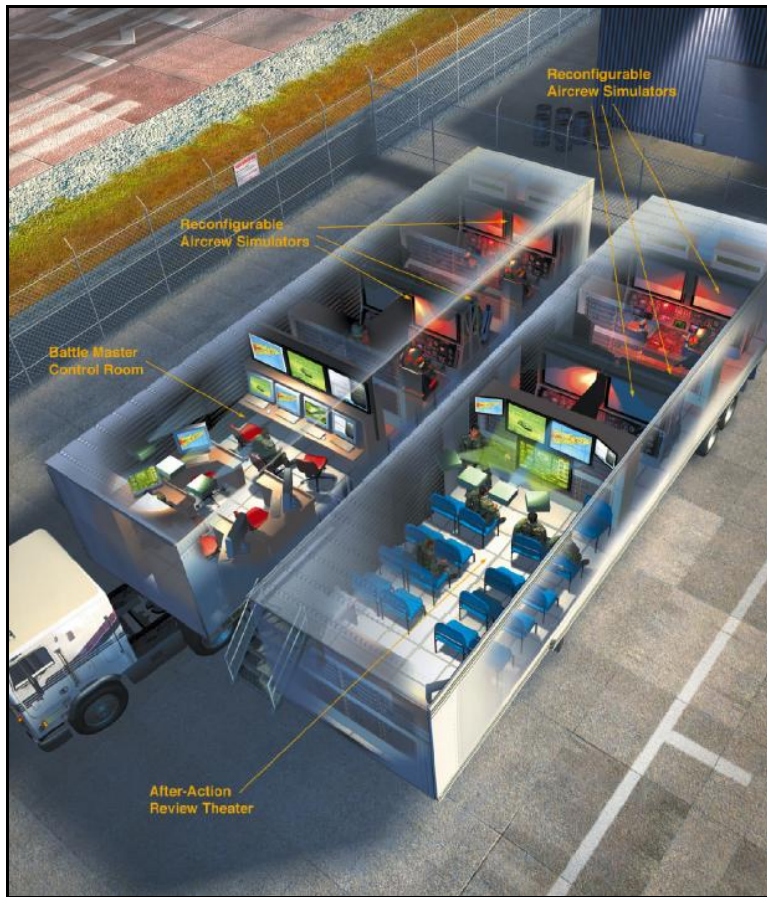


[99-MISCELANEOUS](#)

AVIATION



AVIATION COMBINED ARMS TACTICAL TRAINER (AVCATT)



Functional Description:

The AVCATT is a mobile, trailerized, virtual training environment that allows aircrews and aviation units to conduct collective training and mission rehearsal. Each AVCATT consists of six (6) aircrew manned modules (cockpits), each of which can be configured to represent five different rotary wing aircraft, integrated with various components required to support mission planning, execution and detailed After Action Review (AAR). AVCATT is interoperable with Close Combat Tactical Trainer (CCTT) and other AVCATT systems.

Purpose of Trainer:

To provide collective training and mission rehearsal for Active and Reserve Component rotary wing aircrews and units within a virtual battlefield environment.

Physical Information:

Two trailer suite

Each trailer is 8' wide x 53' long x 13' high tractor/trailer combination; approximately 68' in length

Trailers deployed footprint: 70' x 30'

DVC 01-146
NSN 6920-01-523-3658

Equipment Required, Not Supplied:

Water for environmental control unit- 5 Gal/day

Level hardstand area

Tie down points

Electrical Power:

Commercial three-phase power (480v, 60 Hz) or Army/commercial generator

Logistical Support-Turn Key

Contractor provides:

System operators

Total system maintenance

Total spare parts responsibility

Tools and test equipment

90% availability

Power Requirements:

Information not available

Training Category/Level Utilized:

Aviation/Level 1

Training Requirements Supported:

Information not available

Applicable Publications:

TD 01-6910-706-20

Reference Publications:

Information not available

Source and Method of Obtaining:

Not generally available for issue (limited production).

Logistic Responsible Command, Service, or Agency:

PEO STRI

TACTICAL ENGAGEMENT SIMULATION SYSTEM (TESS) APACHE LONG BOW

DVC 01-186/1 TESS (B) Kit

DVC 01-186/3 TESS Ground Systems MCC I/O Unit

DVC 01-186/4 TESS Ground Systems MCC I/O Accessory Box

DVC 01-186/5 TESS Ground Kit GL Kit

DVC 01-186/6 TESS Ground TIB Assembly

DVC 01-186/7 Ground TESS Kit Repeater Assembly

DVC 01-186/8 Ground TESS Systems HHI



TESS Training Missile



Counterweight



SMODIN



FlashWESS



AIBS



ESLRF/D



TLCU



MCC



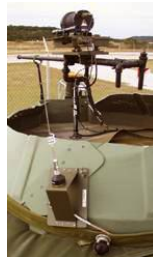
Repeater



Target Instrumentation Kit



Hand-Held Initializer



Ground Instrumentation Kit

Functional Description:

TESS is comprised of embedded aircraft functions (A kit) and external functions (B kit) capable of simulating all AH-64D Apache weapon systems (line-of-sight and non-line-of-sight) tactical engagements. The "A" kit adds weapons emulation plus TESS subsystem controls and displays to the AH-64D Apache. The "A" kit consists of software installed in the aircraft to support the integration of "B" kit components. The "B" kit consists of: Smart Onboard Data Interface Module (SMODIM), TESS Training Missile (TTM) with Flash Weapons

Effect Signature Simulation and Aircraft Kill Indicator, MILES Lasers for the 30mm gun and SAL Hellfire weapon systems for use at the CTCs, Training Laser Interface Adapter (TLIA) for the Training Lasers (being replaced with Training Laser Control Units (TLCUs)), and Data Communications Interface with antenna, Home Station Transceiver with antenna. The system provides real time casualty assessment for force-on-force and force-on-target collective training on instrumented training ranges. The system is MILES/AGES II compatible, and provides real time data recordings for After Action Reviews (AARs).

TESS is transparent to the aircraft operator; therefore, the crew station is the front and back seat of the Longbow Apache. The ground crew station is a personal computer station housed in either a mobile trailer, fixed based core instrumentation building, or HMMWV.

TESS utilizes onboard Longbow Apache systems and displays to fulfill the requirement of being transparent to the user. A Training Data Playback Unit (TDPU) will be utilized on the ground to allow Longbow aircraft data to be analyzed, reviewed, and played back on a laptop computer to support unit conducted AARs. Stored flight data on the aircraft recorder card, from multiple aircraft players, can be merged for playback and analysis.

TESS is currently compatible with Longbow, MILES/AGES II, and NTC.

TESS is fully mobile by air, ground, or sea. The central ground station holds two computer systems, a color display, a communications interface and antenna, and data storage. This setup provides commanders the capacity to monitor Longbow training engagements in near real-time, conduct AARs and briefings, and replay engagement data at the single unit or multiple player levels. Where the training site has a fixed based ground system such as the CTCs, the TESS system will also interact with the existing ground system.

Purpose of Trainer:

TESS is a training and simulation system comprised of an aircraft system and a ground instrumentation system that supports individual, crew, gunnery, and collective live force-on-force training.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

Information not available

Power Requirements:

Information not available

Training Category/Level Utilized:

Aviation/Level 1

Training Requirements Supported:

MOSC 152H and 152F

Applicable Publications:

Information not available

Reference Publications:

TM 55-1520-238 Series

Source and Method of Obtaining:

Not generally available for issue (limited production).

Logistic Responsible Command, Service, or Agency:

PEO STRI

CH-47F TRANSPORTABLE FLIGHT PROFICIENCY SIMULATOR (TFPS)



Functional Description:

The CH-47F TFPS, Device TBD, is a transportable, training system capable of simulating ground, takeoff, flight, operational, and landing characteristics of the CH-47F under a wide range of realistic environmental conditions. On board aircraft, systems are simulated/stimulated for both normal and emergency operating procedures.

Purpose of Trainer:

The purpose of the CH-47F Transportable Flight Proficiency Simulator (TFPS) is to provide a means for initial and proficiency training of pilots, instructor pilots, and maintenance test pilots on CH-47F. CH-47F systems and aerodynamics are modeled to provide a realistic flight environment for CH-47F pilots. The “out the window” scene will be simulated for Visual Meteorological Conditions (VMC), Instrument Meteorological Conditions (IMC), and for Night Vision Goggles (NVG) training. CH-47F TFPS will be High Level Architecture (HLA) compliant. The threat environment is simulated using Computer Generated Forces (CGF). The CH-47F TFPS supports training on Army XXI tasks.

The CH-47F TFPS will have the capability to be operated and maintained at the company level and to deploy with the company anywhere in the world. The CH-47F TFPS can be operated by a minimum of one pilot at either of the crew stations, and by a maximum of two pilots in the crew stations and one Instructor/Operator.

Physical Information:

The CH-47F TFPS is contained in two 14' x 28' containers, that when complexed together, occupy a 28' x 28' footprint. The device is designed to withstand a 164 knot wind when tied down to a concrete slab. The device requires a 100amps and a 300amps 60 Hertz supply to power the provided Environmental Control Units. The ECUs will support operation between - 40C and 54C. The enclosure is light tight to support Night Vision Goggle (NVG) operation.

Equipment Required, Not Supplied:

Information not available

DVC 01-194

Special Installation Requirements:

A 50 ton crane and a 15 ton fork lift are required to complex and decomplex the device on a concrete pad.

Power Requirements:

A 100amps and a 200amps supply of 120/208, 3-phase Y w/ground power is required for the device.

Training Category/Level Utilized:

Aviation/Level 1

Training Requirements Supported:

Information not available

Reference Publications:

TM 01-6910-719-10

Applicable Publications:

TM01-6930-719-10 CH-47F TFPS Operators Manual

TM01-6930-719-23&P CH-47F TFPS System Interface Manual

TD01-6930-719-10 CH-47F TFPS Commercial-Off-The-Shelf Manuals

Source and Method of Obtaining:

PM Cargo/NAVAIR Acquisition

Logistic Responsible Command, Service, or Agency:

PEO STRI

AH-64D LONGBOW CREW TRAINER (LCT)



Functional Description:

The AH-64D Longbow Crew Trainer (LCT) is designed to provide a training capability for flight, instruments and weapons delivery, normal and emergency procedures, and sensor system operating tasks required in the operational design of the basic helicopter. These systems include the Fire Control Radar (FCR), Pilot Night Vision Sensor (PNVS) and the gunner's Target Acquisition and Designation Sight (TADS) systems. The simulator consists of a self-contained trailerized system, pilot and copilot/gunner cockpits, instructor module, motion seat subsystem, visual subsystem, and an integrated host computer. The pilot and copilot / gunner cockpits are replicas of the actual aircraft cockpits and each has a dynamic motion seat. The visual system provides a current state-of-the-art out the window scene and sensor imagery to each of the appropriate crew member video displays. Simulated imagery includes forward-looking infrared (FLIR) and day television (DTV). The training functions are controlled from the instructor operator station located in each trailerized training device.

Purpose of Trainer:

Institutional and field use to support AH-64D Longbow combat skills initial, refresher, and sustainment training of unit aircrews.

Physical Information:

Device Trailer (59,000 LB) W x H x L
Transport Mode 8'6" x 13'6" x 53'
Deployed Mode 18'3" x 13'6" x 53'
Service Trailer (38,000 LB) 8'6" x 13'3" x 53'
Total Deployed Surface Footprint 66' x 95'

Equipment Required, Not Supplied:

Environmental Control Unit provides for required humidification. Needs approximately 4.5 Gallons of water daily, ECS has a 5 Gal water tank.

DVC 01-195

Special Installation Requirements:

None

Power Requirements:

None if use of self-contained power multifuel generator. If the unit elects not to power the LCT with the integrated generator, provisions for ground-supplied (SHORE) power must be facilitated with the installation. LCT Component / SHORE power requirements:

DEVICE TRAILER;

40 kva / 103 Amps, 120/208vac, 3-phase, 60 Hz WYE

ECU;

105 kva / 291 Amps, 120/208vac, 3-phase, 60 Hz WYE

Training Category/Level Utilized:

Aviation/Level 1

Training Requirements Supported:

1000	1004	1006	1008
1009	1010	1022	1024
1026	1032	1034	1036
1038	1040	1044	1046
1048	1052	1054	1058
1062	1064	1070	1072
1074	1082	1084	1110
1114	1116	1118	1122
1133	1134	1138	1140
1142	1143	1144	1145
1148	1151	1153	1155
1160	1170	1172	1174
1176	1178	1180	1182
1184	1188	1194	1196
1262	1416	1458	1462
1464	1469	1548	1835
2002	2004	2006	2010
2066	2130	2160	2162
2164	2180	2620	2630
2640	2650	2670	2675
2680			

Applicable Publications:

TBP

Reference Publications:

TM 01-1520-251 Series

Source and Method of Obtaining:

AH-64D LONGBOW COLLECTIVE TRAINING SYSTEM (LCTS)



Functional Description:

The AH-64D Longbow Collective Training System (LCTS) is a multiple player station collective training device providing Unit / Staff-Level Multi-Aircraft Training System for rehearsals and crew / team interaction. The LCTS consists of at least 6 Tactical Player Stations (TPSs) with Out-the-Window (OTW) visual systems, command, staff and exercise control stations, multiple-video display, and After Action Review (AAR) capability. The LCTS is transportable, incorporates the latest DIS protocols, and interfaces for networking with other LCTs, and CATT devices. There are a total of six trailers in the suite, two of which will provide generator and ECS, three trailers house 2 each TPSs (AH-64D cockpits) and one house's the Instructor Operator Station and AAR facility.

Purpose of Trainer:

To provide team / collective training of Government selected critical tasks while deploying the AH-64D Longbow aircraft mission package. Support the training of team / company / battalion tactical tasks in a combined arms environment.

Physical Information:

SERVICE TRAILERS (2 each):

8.5' wide x 53' long x 13.5' high

- 2 Multi-Fuel Generators, Provides self-contained power.
- 4 Environmental Control Units (ECU)
- Clean and Service Storage Area

DEVICE TRAILERS (3 each):

8.5' wide x 53' long x 13.5' high, each expands to 14' total width deployed.

- 2 TPS / Crew Stations per trailer

DVC 01-196

Physical Information:

- OPERATIONS TRAILER (1 each):
8.5' wide x 53' long x 13.5' high each expands to 14' total width deployed.
• IOS and AAR Trailers (6) deployed footprint 80 x 90 feet.

Equipment Required, Not Supplied:

- Multi-Fuel for generator - 11 Gal/Hr, 300 Gal Tanks
Water for Environmental Control Unit - 5 Gal/Day

Special Installation Requirements:

None

Power Requirements:

None – 2 Multi-Fuel Generators, Provides self-contained power.

Training Category/Level Utilized:

Aviation/Level 1

Training Requirements Supported:

ATM Tasks

1000	1004	1008	1009	1010
1026	1032	1034	1036	1038
1040	1044	1046	1048	1052
1054	1058	1062	1116	1118
1122	1134	1138	1140	1142
1143	1145	1148	1151	1153
1155	1160	1180	1184	1188
1194	1196	1262	1416	1458
1462	1464	1548	1835	2010
2066	2130	2160	2162	2164
2180	2620	2630	2640	2650
2670	2675	2680		

ARTEP Mission Tasks:

1-2-0001	1-2-0101	1-2-0103
1-2-0105	1-2-0106	1-2-0107
1-2-0108	1-2-0206	1-2-0207
1-2-0208	1-2-0210	1-2-0211
1-2-0301	1-2-0401	1-2-0402
1-2-0403	1-2-0501	1-2-0502
1-2-0603	1-2-0613	1-2-1301
1-2-2037	1-2-2038	1-2-2040
1-2-2041	1-2-2042	1-2-2043
1-2-2044	1-2-2103	1-2-2104
1-2-5102	1-2-5103	1-2-5104
1-2-5105	1-2-6101	1-2-6102

DVC 01-196

Training Requirements Supported:

1-2-6103 1-2-6104 1-2-6106
1-2-6107 1-2-6108 1-2-6109
1-2-7105 1-2-7106 1-2-7113
1-2-7503

Reference Publications:

TM 01-1520-251 Series

Applicable Publications:

TBP

Source and Method of Obtaining:

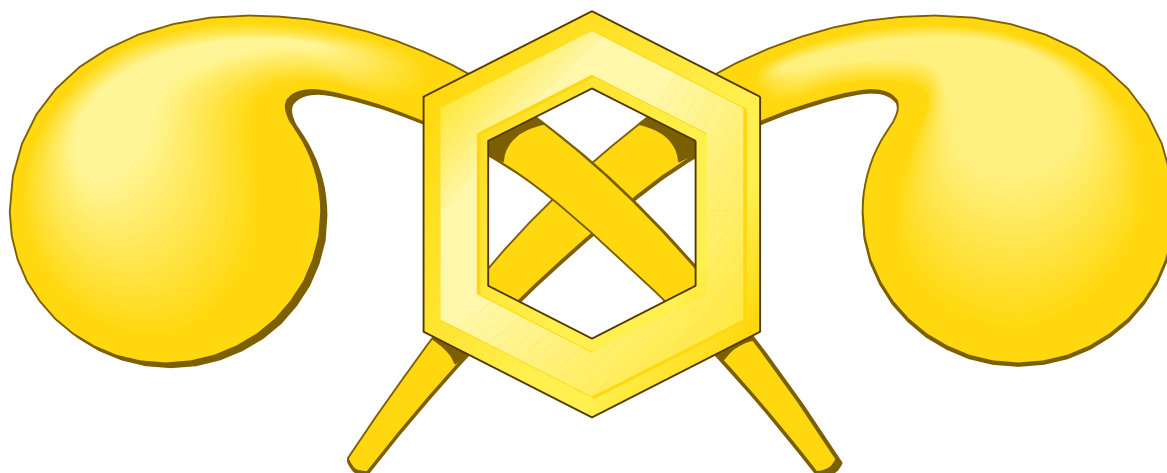
Not generally available for issue (limited production).

Logistic Responsible Command, Service, or Agency:

PM-AAH

CHEMICAL

CHEMICAL



**JOINT SERVICE LIGHTWEIGHT INTEGRATED SUIT
TECHNOLOGY (JLIST)**

DVC None Assigned

FSN: 8415-01-444-XXXX



**TRAINING
CATEGORY/LEVEL
UTILIZED:**

General/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**

**Protective Mask,
Protective gloves
Protective overshoes**

**SOURCE AND METHOD
OF OBTAINING:**

**Available at local
TSC**

**SPECIAL INSTALLATION
REQUIREMENTS:**

None

PURPOSE OF TRAINER:

**To provide soldiers with practice
overgarments in chemical defense
training**

POWER REQUIREMENTS:

None

PHYSICAL INFORMATION:

Coat & Trousers Sizes:

Lg Lg Med Sm

Lg Reg Sm Sm

Med Lg Sm XSm

Med Reg

Woodland Camouflage

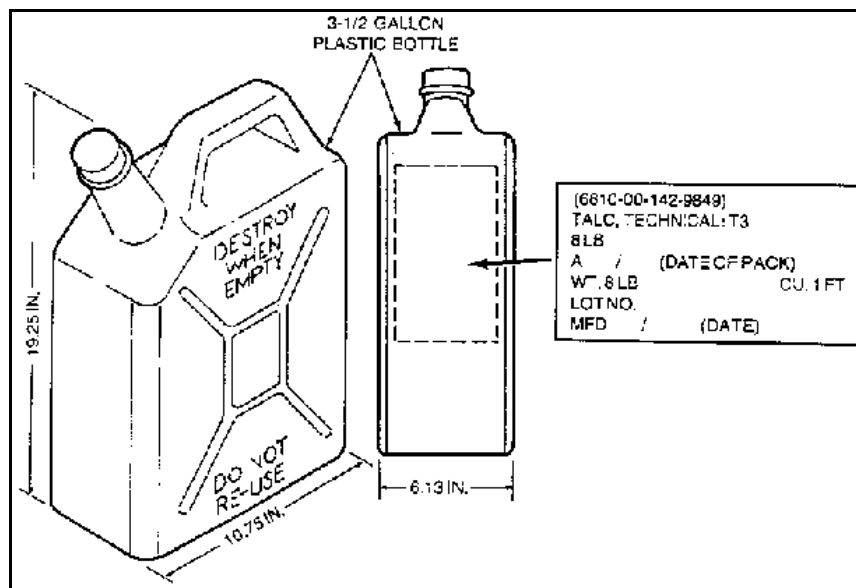
Desert Camouflage

PUBLICATIONS:

TM 10-8415-220-10

TC 3-11-55

TALC, TECHNICAL: T3



Functional Description:

The T3 talc is transferred from the bottle to the riot control agent dispersers by using the transfer tube assembly from the M254 service kit. If T3 talc powder is used as the agent fill for the M33A1 disperser, the operator must install a short check valve assembly in the agent tank and a single jet spray unit on the disperser gun. When T3 talc is sprayed from a disperser, a cloud of airborne T3 talc particles is formed. The particles travel downwind from the release point. The powder settles and readily infiltrates terrain, vegetation, personnel, and equipment. However, as T3 talc is an inert material, it harms neither exposed personnel nor the environment. Because the particles are so fine, they are soon dissipated by weathering.

Purpose of Trainer:

To simulate CS1 or CS2 riot control agent powder when training with riot control agent dispersers in situations requiring the use of inert materials. T3 technical talc is an inert, micro pulverized white powder with the apparent bulk density and flow characteristics of CS1 riot control agent. Eight pounds of T3 talc are packed in a 3 1/2 gallon plastic screw-cap bottle. The T3 talc consists of 55 to 65 percent silica, 25 to 35 percent magnesium oxide, and 0.30 percent calcium oxide by weight. The T3 talc is ground to an average particle size of no more than 3.5 microns. It has an apparent density of no more than 0.25 grams per cubic centimeter.

Physical Information:

Transit Case—19.25 x 10.75 x 6.13 inches
Loaded Transit Case—weighs 8 lbs

Equipment Required, Not Supplied:

None

DVC 03-10
6810-00-142-9849

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Chemical/Level 3

Training Requirements Supported:

Information not available

Applicable Publications:

Operator and Organizational Maintenance Manual for the M33A1, M3, M5 Riot Control Agent Dispersers

Reference Publications:

TM 3-1040-214-12

TM 3-1040-220-12

TM 3-1040-221-12

TM 3-1040-262-13&P

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ACALA

RADIAC TRAINING SET AN/TDQ-T12

DVC 03-15



TRAINING CATEGORY/LEVEL UTILIZED:
Chemical (Radiation) Level 3

EQUIPMENT REQUIRED,
Radiacmeter
M-243/VDR-2
Mobile Transceiver

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
The AN/TDQ-T2 is designed to project a forward directional RF pattern to simulate a radioactive fallout field.

POWER REQUIREMENTS:
12 Volt Vehicle Battery

PHYSICAL INFORMATION:
Dimensions/weight
(1) Equipment/Transit Case 17.5" L x 11.6" W s 7.5" H / 12.5lbs. (5.68kg)
(2) Antenna/Cable/Mast Case 8" Dia x 82" L / 19.5lbs. (8.85kg)

PUBLICATIONS:
TM-11-6665-TDQT2-12

CHEMICAL AGENT MONITOR SIMULATOR (CAMSIM), XM32

**Functional Description:**

The Chemical Agent Monitor Simulator (CAMSIM) is housed within a standard CAM case marked as a simulator. The CAMSIM provides for simulation of point source and area based contamination of both G and H. The device does not use any chemicals as a simulant. The simulator is powered with a standard CAM battery or battery pack. The CAMSIM is compatible with the CAM Buzzer and all CAM accessories. The simulator stores and provides operator error messages to the instructor showing such errors as bumping the nozzle against a contaminated source, incorrect mode change, etc. The device sequences through the standard power up sequence of the CAM when powered up. The CAMSIM comes with a confidence tester, which exactly duplicates the function of the CAM confidence tester.

Purpose of Trainer:

Provides realistic training for the CAM. Replicates system employment as closely as technology will permit.

Physical Information:

The CAMSIM system is comprised of the following:

- 1 System carry case
- 1 CAMSIM simulator with nozzle protective cap, environmental cap and battery cap assembly
- 5 Simulation H Air/Vehicle sources with D cell
- 5 Simulation G Air/Vehicle sources with D cell
- 8 Simulation point sources
- 1 Set of 6 simulation nozzle filters with case
- 1 Instructor remote with battery
- 1 Set of 2 error cards with CAMSIM key on chain
- 1 Spare CAMSIM key
- 1 Simulation confidence tester
- 1 Tape for simulation nozzle filter case
- 1 CAMSIM personal computer interface cable
- 1 CAMSIM Operational Instructions

DVC 03-16

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

110vac

Training Category/Level Utilized:

Chemical/Level 1

Training Requirements Supported:

Information not available

Applicable Publications:

None

Reference Publications:

Operation Instructions for CAMSIM001 - US (NSN 6665-99-001-9985)

Source and Method of Obtaining:

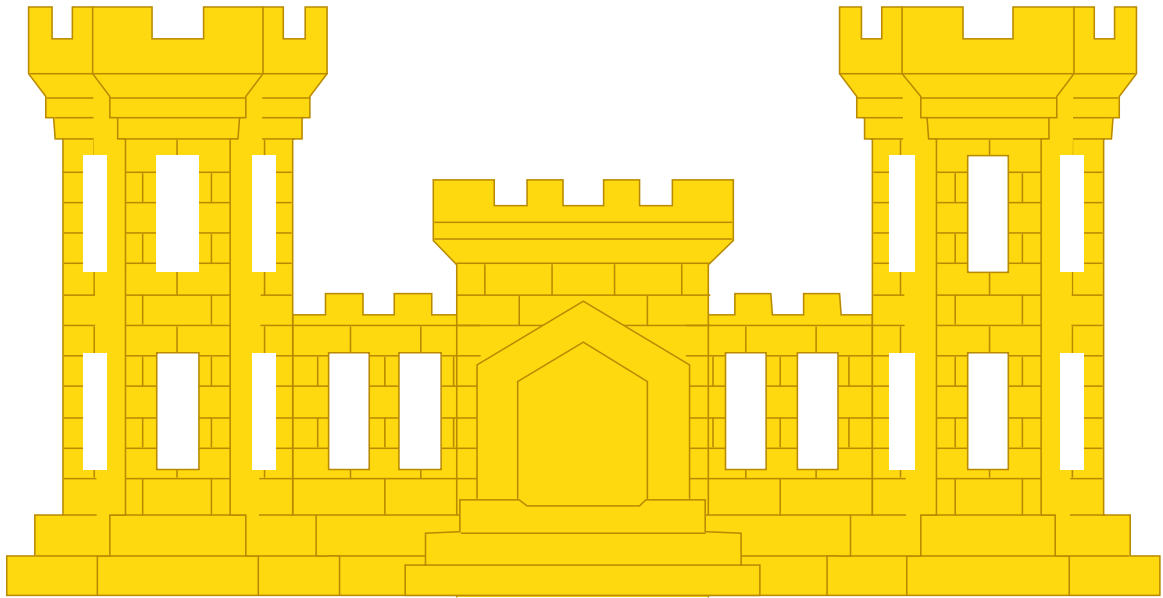
Not generally available for issue (limited production).

Logistic Responsible Command, Service, or Agency:

PEO STRI

ENGINEER

ENGINEER



IMPROVISED EXPLOSIVE DEVICE (IED) TRAINING KIT



Functional Description:

DVC-T 05-062, IED Training Kit contains a variety of inert types of Iraqi training munitions with instructions on how to make and employ IEDs in training.

Purpose of Trainer:

The intent is that while training, a unit will be exposed to a wide variety of IEDs. The munitions in the kit are interchangeable to reflect the weapon of choice used in the area of operation

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

DVC T 05-060

MINE, CLAYMORE KIT

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

IRAQI MINE RECOGNITION BOARD – 5 BOARD SET



Functional Description:

DVC- T 05-054 Iraqi Mine Recognition Boards is a two-dimensional; five board set of graphic aids that show the actual dimensions of different types of Iraqi mines.

Purpose of Trainer:

These boards are used to conduct both unit and individual mine awareness training to deploying and deployed U.S. forces in order to improve a soldier's ability to recognize UXO hazards.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

UNEXPLODED ORDNANCE (UXO) RECOGNITION BOARD 7 BOARD SET



Functional Description:

DVC-D 05-050, UXO Unexploded Ordnance (AMMO) Recognition Boards is a two-dimensional, seven board set of graphic aids that show the actual dimensions of mortars, rockets, submunitions, projectiles and rifle, thrown and placed ordnance.

Purpose of Trainer:

Information not available

DVC-T 05-050

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

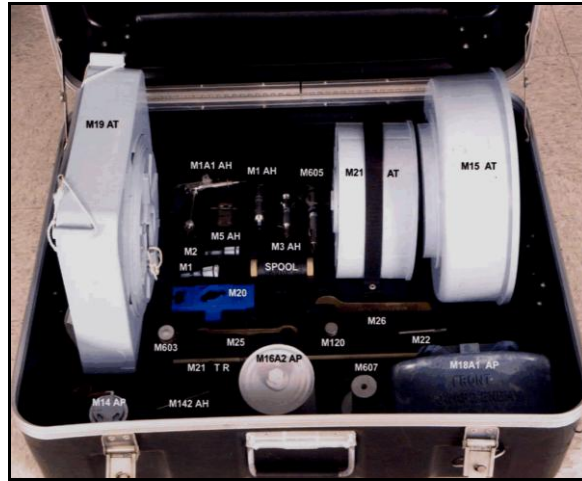
Source and Method of Obtaining:

Available through local TSC.

Logistic Responsible Command, Service, or Agency:

ATSC

PLACED TRAINING MINE (PTM) KIT



Functional Description:

DVC-T 05-041, Placed Mine Training Kit, is packaged in a durable, man portable carrying case with foam liner. Components of the kit are:

1. Mines:
 - (a) M14, M16A2, M18A1 Antipersonnel
 - (b) M15, M19, M21 Antitank
2. Antihandling Devices:
M1, M1A1, M3, M5, M142
3. Fuzes:
M603, M605, M607
4. Wrenches:
M20, M22, M25, M26
5. Misc. Items:
 - (a) M1 and M2 Activators
 - (b) M120 Booster
 - (c) Spool of trip wire

Purpose of Trainer:

The PTM kit is used to demonstrate and practice arming and disarming procedures of mines and booby traps. Mines produce an audible sound when detonated.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

DVC-T 05-041

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

MINE RECOGNITION KIT

DVC-T 05-51



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER
For instruction in identifying different types of Mines.

POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
Consists of plastic models molded on exhibition boards. Models are life-sized the same color as actual mines.

PUBLICATIONS:
None

**DEMOLITION KIT, CRATERING, TRAINING
(MOCK-UP)**

**DVC-T 05-42
M270**



TRAINING CATEGORY/LEVEL UTILIZED:
Engineer/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used as an instructional aid to teach
selected personnel the proper procedures
required to operate the M180 Cratering
Demolition Kit.

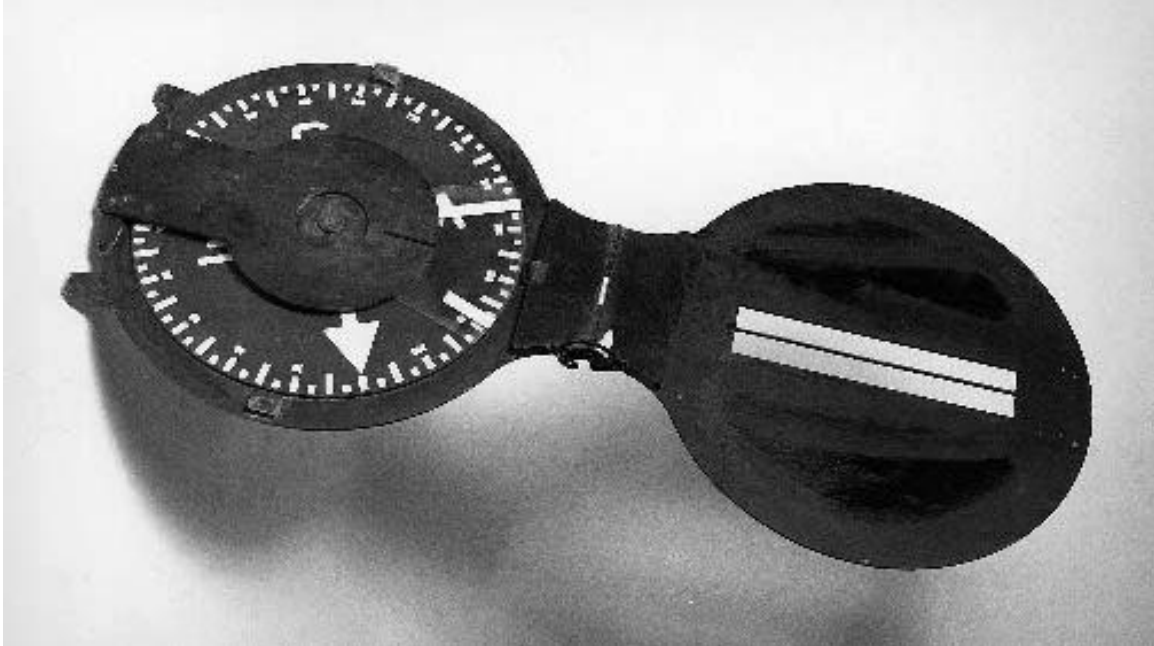
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
A mock-up of the Training Kit,
Cratering, M270 (scale model)
items in all categories except "dropped".

PUBLICATIONS:
None

LENSATIC COMPASS MOCK-UP

FHTD 5-2-6



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
For classroom use to aid in the
instruction of map reading and land
navigation.

POWER REQUIREMENTS:
None

PUBLICATIONS:
None

PHYSICAL INFORMATION:
An 8:1 scale wood replica of a lensatic
compass.

**TRAINING CATEGORY/LEVEL
UTILIZED:**

Engineer/Level 3

**EQUIPMENT REQUIRED, NOT
SUPPLIED:**

None

SOURCE AND METHOD OF OBTAINING:

Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**

None

PURPOSE OF TRAINER:

To realistically demonstrate and
instruct in the methods of placing
explosive charges.

POWER REQUIREMENTS:

None

PHYSICAL INFORMATION:

Wood construction:

5-10-7A- 1/4 lb block 1 1/2" x 3 1/2"

5-10-7B- 1/2 lb block 2" x 3 3/4"

5-10-7C- 1 lb bock 2" x 7"

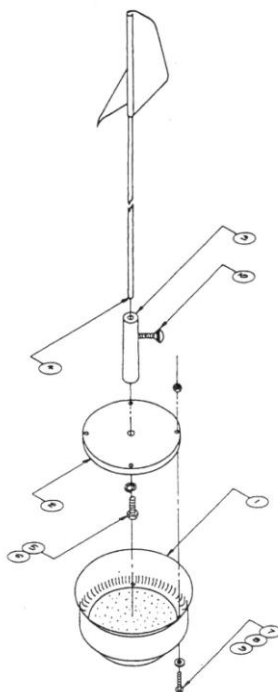
PUBLICATIONS:

None

TIPPY TOMS

FHTD 5-1-1

FHTD 5-1-2



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
To provide mine field marking training.

POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
6" dia plastic base filled with sand sealed,
3' long steal rod with Flag on top.

PUBLICATIONS:
None

6" dia plastic base filled with sand sealed,
6' long steal rod with Flag on top.

NOT SUPPLIED:

IMPROVISED EXPLOSIVE DEVICE EFFECTS SIMULATOR, INCREMENT 1 (IEDES 1), TRAINING SYSTEM, 315 MHZ



Training Category/Level Utilized:
Ordnance/Level 3

Logistic Responsible Command, Service, or Agency:
PEO-STRI, Orlando FL

Source and Method of Obtaining:
Available through local TSC

Purpose of Trainer:

The IED Effects Simulator Increment 1 (IEDES 1) Training System is a Training Aids, Devices, Simulators, and Simulations (TADSS) kit that will assist the Army in training the joint and individual service on operational support tasks, conditions, and standards needed to achieve U.S. Military Improvised Explosive Device (IED) objectives. The IEDES 1 is designed to train key tasks of Explosive Hazards (EHs) defeat in support of full spectrum operations and conflicts including Homeland Security. EH defeat consists of the ability to predict, prevent, detect, classify, neutralize, mark, report, and record EH; and to protect personnel, equipment, and facilities from EH effects. The mission area also includes the requirement of acquisition of EH devices, for the purpose of exploiting emerging threat technologies, developing countermeasures, render safe procedures, techniques, and tactics, to mitigate emerging EH threats. The IEDES 1 is configured to simulate a Small, Medium, Large, and Extra Large explosive signature; however, it is not configured to pinpoint a specific IED.

The IEDES 1 provides the tools for trainers to create simulated battlefield cues and effects for a training audience. The forces must be trained and prepared to break-through or circumvent anti-access and area denial strategies. The Army requires the capabilities to predict, prevent, detect, and neutralize EHs, as well as protect personnel, equipment, and facilities from the effects of EHs. The IEDES 1 will enable joint force commanders to effectively train in the key tasks of IED threats. These capabilities are required throughout the full range of military operations, and throughout military, physical, and cultural environments.

This device will be further developed, and future capability improvements will occur in increments, as technical advances will allow.

Functional Description:

The major components of IEDES 1 (315 MHz) are:

- a. DVC 05-113 (MEU)

- b. DVC 05-113/1 (PD)
- c. DVC 05-113/2 (PPBT)
- d. DVC 05-113/3 (SV)
- e. DVC 05-115/1 (ECID 315 Mhz)
- f. DVC 05-116/1 (MCU 315 Mhz)
- g. DVC 05-117 (NPC)
- h. DVC 05-118 (PSSD)
- i. DVC 05-118/1 (NPSSD)

IEDES 1 training system utilizes an ECID and MCU that can be used with both pyrotechnic and non-pyrotechnic signature devices. The non-pyrotechnic devices can be used for indoor and outdoor training exercises. The NPSSD is scalable to replicate small to large IED signatures. The PSSD is used for outdoor, dismounted and mounted training exercises, and is scalable to replicate small to extra large IED signatures. Sufficient flash/bang/heat signature or other visual signature effects realistically replicate combat situations. When incorporated, an MEU device emits the appropriate MILES kill code to affect training personnel and equipment when IEDES 1 Pyrotechnic or Non-Pyrotechnic devices are triggered. Other operational features include the following:

- a. The IEDES 1 provides visual and aural force-on-force and force-on-target engagement simulations to obtain feedback on the effects of IED engagement simulations on personnel, independent targets, and combat vehicles in support of Explosives Hazards Defeat (EHD) training objectives.
- b. The IEDES 1 training system utilizes multiple safety features to prevent unintentional detonation of signature devices.
- c. Only government type classified munitions M30, M31A1 are used with the PSSD.
- d. Wireless communication is within a Government approved radio frequency range in accordance with the Army spectrum management frequency authority for the geographical location, and in compliance with DoD spectrum management policies and procedures for CONUS and OCONUS locations.
- e. Emits MILES codes IAW PMT 90-S002J to replicate kill effects and target pairing.
- f. IEDES 1 operating in wireless mode can be disabled by CREW training devices.
- g. IEDES 1 is capable of being used during periods of reduced visibility and darkness within the capabilities of the signature device being used.

Physical Information:

NOTE: Dimensions and weights of major components (see Functional Description) are identified under their respective Device Numbers.

The IEDES 1 training system is packaged in a total of (7) seven transit cases identified as follows: (weights identified include transit case and IEDES 1 components)

Transit Case	Case Contents
1. A-1	Non-Pyrotechnic
2. A-2	Non-Pyrotechnic
3. A-3	Non-Pyrotechnic
4. A-4	Non-Pyrotechnic
5. A-5	Non-Pyrotechnic
6. B-1	Pyrotechnic
7. Consumables Kit	Non-Pyro Consumables

Case Dimensions	Total Case Weight
1. 49"x 25"x 24"	Weight: 188.5 lbs.
2. 49"x25"x24"	Weight: 188.5 lbs.
3. 49"x25"x24"	Weight: 191.3 lbs.
4. 49"x25"x24"	Weight: 136 lbs.
5. 49"x25"x24"	Weight: 185.5 lbs.
6. 49"x25"x24"	Weight: 127.5 lbs.
7. 25.5"x 25.5" x 13.25"	Weight: 73 lbs.

Equipment Required, Not Supplied:

M30 and M31A1 pyrotechnic cartridges for PSSD

Special Installation Requirements:

None

Power Requirements:

NOTE: The power requirements of major components (see Functional Description) are identified under their respective Device Numbers.

Applicable Publications:

Operators Manual: 05-6920-703-10

System Maintenance Manual: 05-6920-703-24& P

Reference Publications:

None

Training Requirements Supported:

Individual Training: Any MOS with a mission requirement to operate in an environment where the Improvised Explosive Device threat is likely. Operators may also include military civilians and contractors.

SUICIDE BOMBER VEST (SBV)

**Training Category/Level Utilized:**

Ordnance/Level 1

Logistic Responsible Command, Service, or Agency:

PEO-STRI

Source and Method of Obtaining:

Not generally available for issue.

Purpose of Trainer:

The Suicide Bomber Vest is an Improvised Explosive Device (IED) simulator that can realistically demonstrate the behavior and effects of an individual suicide bomber. It supports training by allowing trainers to actually wear and detonate the device in lifelike scenarios. This device provides an instantaneous, high output, realistic explosion sound with billowing smoke to complete the effect. It provides an intense audible and visual shock effect generating the maximum sense of realism and impact in a live training environment.

Functional Description:

The Suicide Bomber Vest can be worn directly on the body and set off without harming the wearer or surrounding observers. One pull of the activation cord and the non-pyrotechnic detonations blast outward from the wearer for visual effect. The SBV is adjustable and ready to use right out of the box. The user need only load the non-pyrotechnical smoke simulation powder into the casings around the vest, load in a 12-gram Co2 cartridge and attach to the rip cord for each simulation. Each refill creates an explosion so the vest can be configured to achieve the desired effect with one to four detonations.

Physical Information:

Weight: Approximately 10 lbs

Vest apron approx. 12 x 16 inches (from and back).

Equipment Required, Not Supplied:

(Information not available)

Special Installation Requirements:

(Information not available)

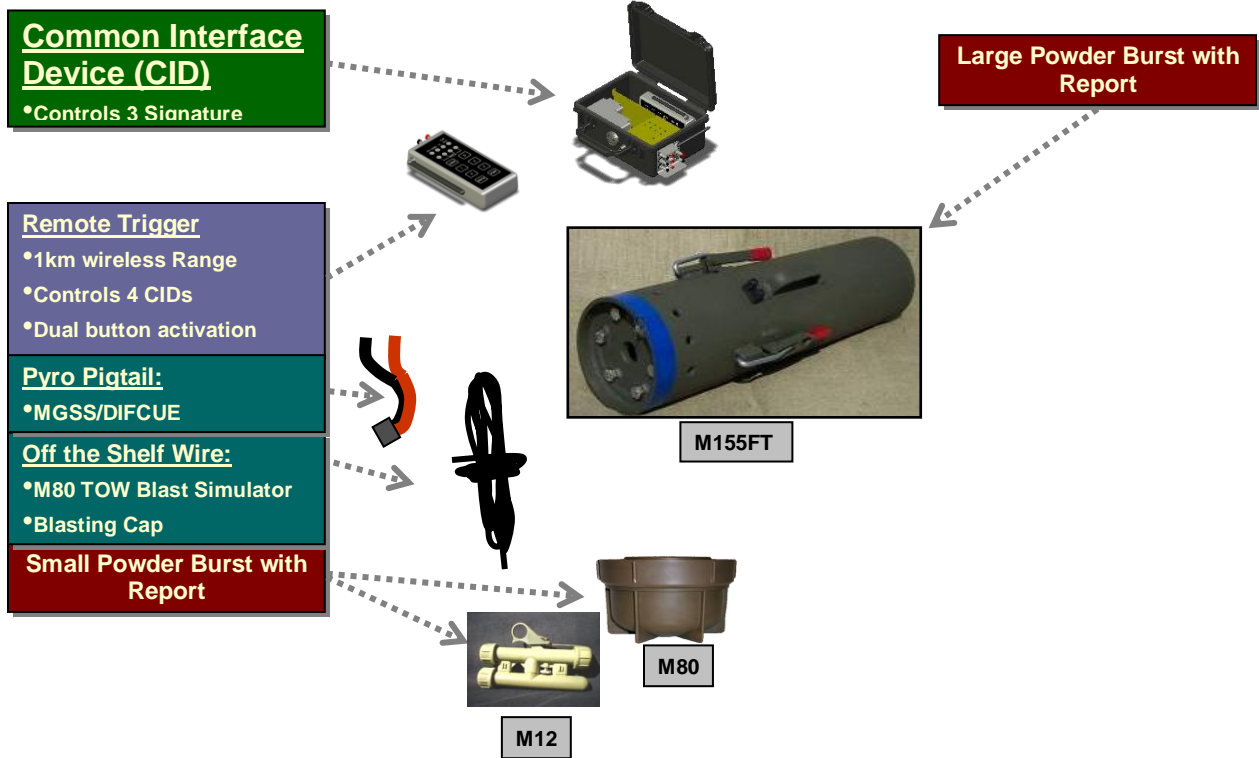
Power Requirements:

(Information not available)

Applicable Publications:

(Information not available)

TRAINING IMPROVISED EXPLOSIVE DEVICE (TIED)



Functional Description:
(Information not available)

Purpose of Trainer:
(Information not available)

Physical Information:
(Information not available)

Equipment Required, Not Supplied:
(Information not available)

Special Installation Requirements:
(Information not available)

Power Requirements:
CECOM approved C Cell Batteries (10)
Frequency: 315 MHz on 4 channels
12v DC output

Training Category/Level Utilized:
(Information not available)

Training Requirements Supported:
(Information not available)

DVC 05-107

Applicable Publications:

(Information not available)

Reference Publications:

TM 9-6920-923-10 Operator's Manual Training Improvised Explosive Device (TIED)

SMM 9-6920-923-24&P System Maintenance Manual Training Improvised Explosive Device (TIED)

Source and Method of Obtaining:

(Information not available)

Logistic Responsible Command, Service, or Agency:

PEO STRI

AN/PSS-14 TRAINING TARGET SET

NSN 6920-01-554-6002	DVC 05-105/1/A TT-30-AT (Training Target-30cm -Antitank, Low Metal)
NSN 6920-01-554-6012	DVC 05-105/1/B TT-25-AT (Training Target-25cm-Antitank, Low Metal)
NSN 6920-01-554-6017	DVC 05-105/1/C TT -20-AT (Training Target -20cm -Antitank, Low Metal)
NSN 6920-01-554-6028	DVC 05-105/1/D TT-12-AP (Training Target-12cm-Antipersonnel, Low Metal)
NSN 6920-01-554-6034	DVC 05-105/1/E TT-09-AP (Training Target-09cm-Antipersonnel, Low Metal)
NSN 6920-01-554-6038	DVC 05-105/1/F TT-06-AP (Training Target-06cm-Antipersonnel, Low Metal)
NSN 6920-01-554-6046	DVC 05-105/1/G TT-M-AT (Training Target-High Metal, Antitank)
NSN 6920-01-554-6054	DVC 05-105/1/H TT-M-AP (Training Target-High Metal, Antipersonnel)



Figure 1: Training Target Set

Training Category/Level Utilized:
Engineer/Level 1

Logistic Responsible Command, Service or Agency:
PEO STRI

Source and Method of Obtaining:
Available from PEO STRI (ATTN: OPS-L), 12350 Research Parkway, Orlando, FL 32826.

Purpose of Trainer:
The AN/PSS-14 Training Targets are for use as training devices for training any Military Occupational Specialty (MOS) that is currently required to operate the AN/PSS-14 or similar mine detector, including, but not limited to, Combat Engineers, Infantry, Armor/Cavalry, Special Operations Forces and appropriate members of other services with a mine detection mission. The training targets are used in the conduct of new equipment training, institutional training, and unit sustainment training. Though developed as the training device for the Handheld Standoff Mine Detection System (HSTAMIDS), the training targets are also suitable for use in training of all hand held mine detector wands such as the AN/PSS-12.

NSN 6920-01-554-5658

Functional Description:
The training targets are selected and arrayed in a manner replicating the combat mission scenario selected for the countermine training.

Physical Information:

Training Target Overall Dimensions			
Training Target Type	Diameter (cm)	Length (cm)	Quantity
TT-30-AT	30	10	12
TT-25-AT	25	8.33	14
TT-20-AT	20	6.67	12
TT-12-AP	12	4	12
TT-09-AP	9	3.15	14
TT-06-AP	6	3.15	12
TT-M-AT	30	10	14
TT-M-AP	9	3.15	14

Applicable Publications:
TM 5-XXXX-XXX-XX&P Operator’s Manual for the AN/PSS-14 Mine Detecting Set;
TM 5-6665-298-10 Operator’s Manual for the AN/PSS-12.



DVC 05-105/1A TT-30-AT



DVC 05-105/1B TT-25-AT

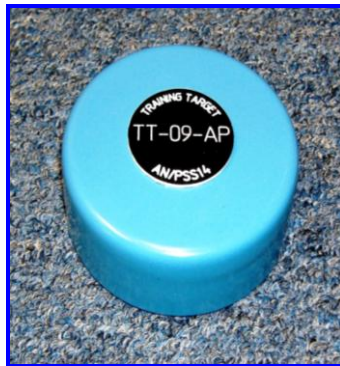


DVC 05-105/1C TT-20-AT

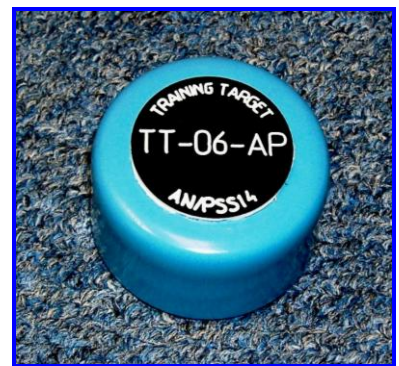
Figure 2: Low Metal Anti-Tank Training Targets



DVC 05-105/1D TT-12-AP



DVC 05-105/1E TT-09-AT



DVC 05-105/1F TT-06-AT

Figure 3: Low Metal Anti-Personnel Training Targets



DVC 05-105/1G TT-M-AT



DVC 05-105/1H TT-M-AP

Figure 4: High Metal Anti-Personnel and Anti-Tank Training Targets

Equipment Required, Not Supplied:

Tactical mine detector with ancillary equipment.
SMS with Ancillary Equipment.

Power Requirements:

None

Reference Publications:

FM 20-32 Mine/Countermine Operations. This Engineer School field manual provides Training and Doctrine information for handheld mine detection systems.

Training Resident Courses at:

US Engineer School, Fort Leonard Wood:

CMF 11, CMF 12, CMF 11 BNCOC, CMF 12 BNCOC, ANCOG, Engineer Officer Basic Course (OBC), and Engineer Officer Advanced Course (AC)

US Infantry School, Fort Benning:

Infantry Officer Basic Course (OBC), and Infantry Officer Advance Course (AC)

Training Requirements Supported:

(Information not available)

AN/PSS-14 TRAINING SET INCLUDES: SWEEP MONITORING SYSTEM (SMS) TRAINING TARGET SET (TTS)



Sweep Monitoring System shown with tripod, with tracking cameras mounted top and bottom, cabled to instructor's base station computer.



AN/PSS-14 Training Target System

Training Category/Level Utilized:

Ordnance/Level 1

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

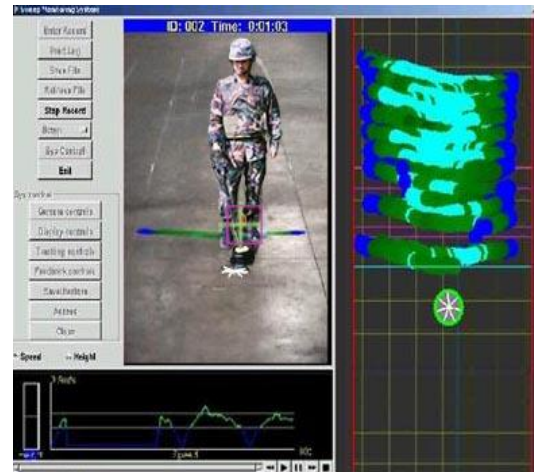
Not generally available for issue (limited production)

Purpose of Trainer:

The AN/PSS-14 Training Set includes the Sweep Monitoring System (SMS) and the Training Target Set (TTS) and is used to train personnel assigned to a mine detection mission. The AN/PSS-14 Training Set supports New Equipment Training (NET), institutional training, and unit sustainment training. The SMS is a camera-based training tool that assists student-operators in acquiring and maintaining the skills required to properly employ the AN/PSS-14 Mine Detecting Set. The SMS provides real-time audio and visual feedback to the instructor and operator regarding lane coverage, sweep speed, and sensor head height.

Functional Description:

The SMS consists of a ruggedized base station computer, a tripod with two tracking cameras and speaker, and an ultra-lightweight optical target mounted atop the AN/PSS-14 Mine Detecting Set sensor head. Operator performance is displayed in real-time on the computer's display, and performance errors are announced in real-time through the speaker. Operator performance data is also stored for later review. The SMS is configured for a 1.5m



Instructor's view of base station computer (displays lane coverage, sweep speed, and sensor head height)

x 15m lane, replicating the combat mission scenario selected for the countermine training, mounted atop the AN/PSS-14 sensor head.

Virtual mines from the SMS database may be placed on the computer display to coincide with the placement of physical targets buried within a lane (such as the AN/PSS-14 Training Target Set, NSN 6920-01-554-5658, DVC 05-105/1), or used without physical counterparts, as needed.

Physical Information:

Tripod Storage Container, with Contents:
Weight 69 lb.
Length 19.5 in.
Width 60 in.
Height 12.5 in.

Base Station Storage Container, with Contents:

Weight 118 lb.
Length 27.5 in.
Width 37 in.
Height 19.5 in.

Tripod, Deployed:

Weight w/o main cable 36.5 lb.
Weight w/ main cable 43 lb.
Height 118.5 in.
Footprint 78 in. dia.

Base Station Computer, Deployed:

Weight with AC cable 36 lb.
Weight with DC cable 40 lb.
Length 20 in.
Width 17.5 in.
Height 13 in.

Optical Target Sphere:

Weight <1oz.

Equipment Required, Not Supplied:

AN/PSS-14 Mine Detecting System, with ancillary equipment.

Special Installation Requirements:

(Information not available)

Power Requirements:

24/120/220VAC external power source

Applicable Publications:

TM 5-6665-373-12&P Manual for the AN/PSS-14 Mine Detecting Set, and TTS

TB 5-6665-412-10, Quick Reference Guide for the SMS and TTS

TM 5-6665-412-13&P, Operator and Field Maintenance Manual for the SMS and TTS

Training Resident Courses at:

USA Engineer School, Fort Leonard Wood:

CMF 21, CMF 21 BNCOC, Engineer Officer Basic Course (EOBC), and Engineer Captain Career Course (ECCC).

US Infantry School, Fort Benning:

CMF 11, CMF 11 BNCOC, ANCOB, Infantry Officer Basic Course (OBC), and Infantry Captain Career Course (ICCC).

Reference Publications:

FM 3-34.210. Explosives Hazards Operations

Training Requirements Supported:

Any personnel with a mine detection mission.

ANTI-PERSONNEL OBSTACLE BREACHING SYSTEM (APOBS)



Functional Description:

The individual trainer will be a nonexplosive, totally inert APOBS. The trainers were designed to provide the Combat Engineer with a classroom training aid as well as a field trainer for use in collective environment such as the Training Centers. It will have an inert fill for the line charge, grenades and an inert rocket. The inert training aid will be similar to the Class V explosive system, providing inspection and set-up training to the point of launch initiation. It will give soldiers an opportunity to practice TTPs necessary for APOBS deployment. This reusable trainer will be used for both institutional and unit training. The training aid will be supported by the Training Support Centers in those geographic areas of responsibility designated in AR 5-9, Interservice Support Installation Area Coordination. The repair parts and special tools list (RPTSL) of TM 9-1375-219-13&P will contain those items authorized for performance of maintenance on training aid.

Purpose of Trainer:

To provide the soldier with a classroom training aid as well as a field training aid for use in collective training environment.

Physical Information:

	Front backpack	Rear Backpack	Softpack	Shipping & Storage Container
Height	9"	9"	5"	16"
Width	15.5"	15.5"	4"	30"
Diameter (length)	28"	28"	18"	44"
Weight	62 lbs	55 lbs	9 lbs	230 lbs loaded 105 lbs empty

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

No external or internal power is required, system totally inert.

Training Category/Level Utilized:

Engineer/Level 3

DVC 05-103
NSN 1375-01-467-1277
NSN 6910-01-467-1277

Training Requirements Supported:

MOS

11B Infantryman,
12B Combat Engineer,
19D Cav Scout

Applicable Publications:

TM 9-1375-219-13 Operator's and maintenance manual

Reference Publications:

None

Source and Method of Obtaining:

Fielded through Training Support Center at Various installations (A ODCSOPS approved fielding plan for Trainers available identifying installation TSC's)

Logistic Responsible Command, Service, or Agency:

TACOM Rock Island

WIDE AREA MUNITION (WAM) (HORNET) INDIVIDUAL TRAINER XM98



Wide Area Munition (Hornet) XM98 Individual Trainer with Legs down and dummy sensors deployed and XM97 Collective trainer with Safe and Handling Band installed. Both trainers are inert.

Functional Descriptions:

The Wide Area Munition (WAM) or Hornet, as the Combat Engineers call it, has two devices to support training. They are the Individual Trainer (XM98) and the Collective Trainer (XM97). Both are inert training aids with the same physical dimensions and weight as the tactical Hornet Hand Emplaced (HE) XM93 munition. Both trainers weigh 35 pounds and are packaged in a PA160 shipping and storage container. They are marked with a blue stripe to distinguish them from live-loaded munition. Many tactical parts, such as the safe and handling band, are the same as used on the tactical munition.

The Hornet Individual Trainer, XM98:

The XM98 is used in a classroom type environment to replicate the tactical XM93 Hornet munition. It is capable of receiving radio signals from the M71 RCU, just like the tactical munition. The RCU is an Associated Support Item of Equipment (ASIDE) for Hornet and is on the unit's Table of Organization and Equipment (TOE) item, not part of the Hornet system. The Hornet Individual trainer control panel is identical to the XM93 munition. A simulator battery pack is used in the individual trainer in place of the tactical Hornet's active battery pack. Switches and knobs are functional and most parts are similar to the tactical Hornet. The legs are individually deployable and the trainer has an instructor feedback panel that provides feedback to the instructor to aid evaluation that the operator actions were completed correctly.

Purpose of Trainer:

The trainers were designed to provide the Combat Engineer with a classroom training aid as well as a field trainer for use in a collective environment such as the training centers. Though they do not directly interact with the training centers computer simulations, they provide the employing soldier with realism through this hands-on item.

DVC 05-101
NSN 6910-01-432-9357

Physical Information:

Height: 16.75-in. (42.5-cm) w/S&H band assembly
12.5 in. (31.7 cm) w/o S&H band assembly
Width: 7.93 in. (20.1) (across flats)
Diameter: 8.4 in. (21.3 cm) (with cover)
8.0 in. (20.3 cm) (without cover)
Weight: 35 lb. (15.9 kg)

Shipping and storage container (PA 160):

Height: 22 in. (55.8 cm)
Width: 11 in. (27.9 cm) (flat to flat of rim)
Length: 11 in. (27.9 cm) (flat to flat of rim)
Body tube: 10 in. (25.4 cm) (inside diameter)
Container weight: 20.6 lb. (9.3 kg) (empty)
Internal packing: 1.4 lb. (0.6 kg)
Container weight: 57 lb. (25.9 kg) (loaded)

Training Resident Courses at US Engineer School, Fort Leonard Wood:

12B OSUT, 12B BNCOC, 12B ANCOC, 12B OBC and OAC.

Training Requirements Supported:

The WAM munitions have been incorporated in tasks: 5-3-0112; Emplace a Tactical Minefield and 5-3-0115; emplace a Hasty Protective Minefield. The MTPs those tasks are attached to:

5-027-35EN CO, EN BN (ABN)
5-027-10EN PLT, EN CO, EN BN (ABN)
5-427-35EN CO, EN BN, CORPS (WHL)
5-427-10EN PLT, EN CO, EN BN, CORPS (WHL)
5-157-35EN CO, EN BN, INF DIV (LT)
5-157-10EN PLT, EN CO, EN BN, INF DIV (LT)
5-447-35EN CO, EN BN, CORPS (ABN)
5-447-37EN CO, EN BN, CORPS (LT)
5-447-10EN PLT, EN BN, CORPS (ABN)
5-447-11EN PLT, EN BN, CORPS (LT)
5-217-35EN CO, EN BN (AA)
5-217-10EN PLT, EN CO, EN BN (AA)
5-063-35EN CO, BRIGADE COMBAT TEAM
5-063-10EN MOB PLT, EN CO, BCT
5-063-11EN MOB SPT PLT, EN CO BCT

Equipment Required, Not Supplied:

M71 Remote Control Unit (RCU) - TM 9-1290-208-23&P Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) For Control, Remote, Land Mine System: M71 (NSN 1290-01-161-3662). Organic to using units.

DVC 05-101
NSN 6910-01-432-9357

Power Requirements:

No external power required. Internally the XM98 uses one lithium BA 5112/U battery. This battery is available through the standard Army supply system. The Training Support Center (TSC) or maintenance personnel will install the battery

Applicable Publication:

TM 9-1395-200-10 - Operator's Manual for Munition, Wide Area: XM93, Hand Emplaced (Hornet) (NSN 1377-01-425-7579 and Control, Remote, Land Mine System: M71 (NSN 1290-01-161-3662, Munition, Wide Area: Training Device XM98 (NSN 6920-01-432-9357), Collective Trainer, XM97) (NSN 6920-01-458-4335).

TM 9-1395-200-23&P - Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Munition, Wide Area: XM93, Hand Emplaced (Hornet) (NSN 1377-01-425-7579 and Munition, Wide Area: Training Device XM98 (NSN 6920-01-432-9357), Collective Trainer, XM97) (NSN 6920-01-458-4335).

Reference Publication:

FM 20-32 Mine/Countermine Operations. This USA Engineer School field manual provides the Training and Doctrine information for the XM93 WAM (Hornet).

Source and Method of Obtaining:

Not generally available for issue (limited production).

Logistic Responsible Command, Service or Agency:

TACOM, Rock Island (formerly ACALA).

DVC 05-100
NSN 6910-01-458-4335

WIDE AREA MUNITION (WAM) (HORNET) COLLECTIVE TRAINER XM97



Wide Area Mmunition (Hornet) XM98 Individual Trainer with Legs down and dummy sensors deployed and XM97 Collective trainer with Safe and Handling Band installed. Both trainers are inert.

Functional Descriptions:

The Wide Area Mmunition (WAM) or Hornet, as the Combat Engineers call it, has two devices to support training. They are the Individual Trainer (XM98) and the Collective Trainer (XM97). Both are inert training aids with the same physical dimensions and weight as the tactical Hornet Hand Emplaced (HE) XM93 munition. Both trainers weigh 35 pounds and are packaged in a PA160 shipping and storage container. They are marked with a blue stripe to distinguish them from live-loaded munition. Many tactical parts, such as the safe and handling band, are the same as used on the tactical munition.

The Hornet Individual Trainer, XM97:

The Hornet collective trainer is a totally inert training device used to train personnel in a collective environment. It is designed rugged to be used in a field environment to practice emplacement at an emplacement sites. It is not powered and gives no illuminated indication, but has all the controls and they can be set. The XM97 does not deploy legs or microphone probes since these features are not required for arming or deployment. The XM97 will provide the operator with a nonfunctional mechanical interface with the M71 RCU and an antenna simulator

Purpose of Trainer:

The trainers were designed to provide the Combat Engineer with a classroom training aid as well as a field trainer for use in a collective environment such as the training centers. Though they do not directly interact with the training centers computer simulations, they provide the employing soldier with realism through this hand on item.

DVC 05-100
NSN 6910-01-458-4335

Physical Information:

Height: 16.75-in. (42.5-cm) w/S&H band assembly
12.5 in. (31.7 cm) w/o S&H band assembly
Width: 7.93 in. (20.1) (across flats)
Diameter: 8.4 in. (21.3 cm) (with cover)
8.0 in. (20.3 cm) (without cover)
Weight: 35 lb. (15.9 kg)

Shipping and storage container (PA 160):

Height 22 in. (55.8 cm)
Width 11 in. (27.9 cm) (flat to flat of rim)
Length 11 in. (27.9 cm) (flat to flat of rim)
Body tube 10 in. (25.4 cm) (inside diameter)
Container weight 20.6 lb. (9.3 kg) (empty)
Internal packing 1.4 lb. (0.6 kg)
Container weight 57 lb. (25.9 kg) (loaded)

Equipment Required, Not Supplied:

M71 Remote Control Unit (RCU) - TM 9-1290-208-23&P Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) For Control, Remote, Land Mine System: M71 (NSN 1290-01-161-3662). Organic to using units.

Power Requirements:

No external power required. Internally the XM98 uses one lithium BA 5112/U battery. This battery is available through the standard Army supply system. The Training Support Center (TSC) or maintenance personnel will install the battery

Training Resident Courses at US Engineer School, Fort Leonard Wood:

12B OSUT, 12B BNCOC, 12B ANCOC, 12B OBC and OAC.

Training Requirements Supported:

The WAM munitions have been incorporated in tasks: 5-3-0112; Emplace a Tactical Minefield and 5-3-0115; emplace a Hasty Protective Minefield. The MTPs those tasks are attached to:

5-027-35EN CO, EN BN (ABN)
5-027-10EN PLT, EN CO, EN BN (ABN)
5-427-35EN CO, EN BN, CORPS (WHL)
5-427-10EN PLT, EN CO, EN BN, CORPS (WHL)
5-157-35EN CO, EN BN, INF DIV (LT)
5-157-10EN PLT, EN CO, EN BN, INF DIV (LT)
5-447-35EN CO, EN BN, CORPS (ABN)
5-447-37EN CO, EN BN, CORPS (LT)
5-447-10EN PLT, EN BN, CORPS (ABN)
5-447-11EN PLT, EN BN, CORPS (LT)
5-217-35EN CO, EN BN (AA)
5-217-10EN PLT, EN CO, EN BN (AA)

DVC 05-100
NSN 6910-01-458-4335

Training Requirements Supported:

5-063-35EN CO, BRIGADE COMBAT TEAM

5-063-10EN MOB PLT, EN CO, BCT

5-063-11EN MOB SPT PLT, EN CO BCT

Applicable Publication:

TM 9-1395-200-10 - Operator's Manual for Munition, Wide Area: XM93, Hand Emplaced (Hornet) (NSN 1377-01-425-7579) and Control, Remote, Land Mine System: M71 (NSN 1290-01-161-3662),

Munition, Wide Area: Training Device XM98 (NSN 6920-01-432-9357),

Collective Trainer, XM97 (NSN 6920-01-458-4335).

TM 9-1395-200-23&P - Unit and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Munition, Wide Area: XM93, Hand Emplaced (Hornet) (NSN 1377-01-425-7579)

Munition, Wide Area: Training Device XM98 (NSN 6920-01-432-9357)

Collective Trainer, XM97 (NSN 6920-01-458-4335).

Reference Publication:

FM 20-32 Mine/Countermining Operations. This USA Engineer School field manual provides the Training and Doctrine information for the XM93 WAM (Hornet).

Source and Method of Obtaining:

Not generally available for issue (limited production).

Logistic Responsible Command, Service or Agency:

TACOM, Rock Island (formerly ACALA).

MODULAR PACK MINE SYSTEM (MOPMS) TRAINING DISPENSER



Functional Description:

Constructed of high-density polyethylene the trainer is a self-contained shipping, storage and deployment unit. It is equipped with two handling straps and four foldout carrying handles. It is similar to the M131 (tactical) dispenser; however, it is completely inert and does not contain mines. The battery powered indicator control contains the electronics package, which receives, interprets and acts upon the signal received from the M71, Remote Control Land Mine System. An externally mounted lamp indicates receipt of a deploy command.

Purpose of Trainer:

The M136 MOPMS Training Dispenser is the trainer for the M131 MOPMS Ground Dispenser and Mine. It is used to demonstrate operation and maintenance procedures for the MOPMS.

Physical Information:

Length: 32" width: 23" Height: 14" Cube: 5.7 cu ft; Weight: 155 lb

Equipment Required, Not Supplied:

Control, Remote, Land Mine: M71

Special Installation Requirements:

None

Power Requirements:

Lithium Cell Battery: BA 5598/U

Training Category/Level Utilized:

Combat/Level 3

Training Requirements Supported:

Operators of training device: 11B, 11C, 11H, 11M, 12B, 13B, 13E, 16R, 19E, 19D, 19K66

Source and Method of Obtaining:

Available as directed by MOPMS distribution plan.

Logistic Responsible Command, Service, or Agency:

ACALA

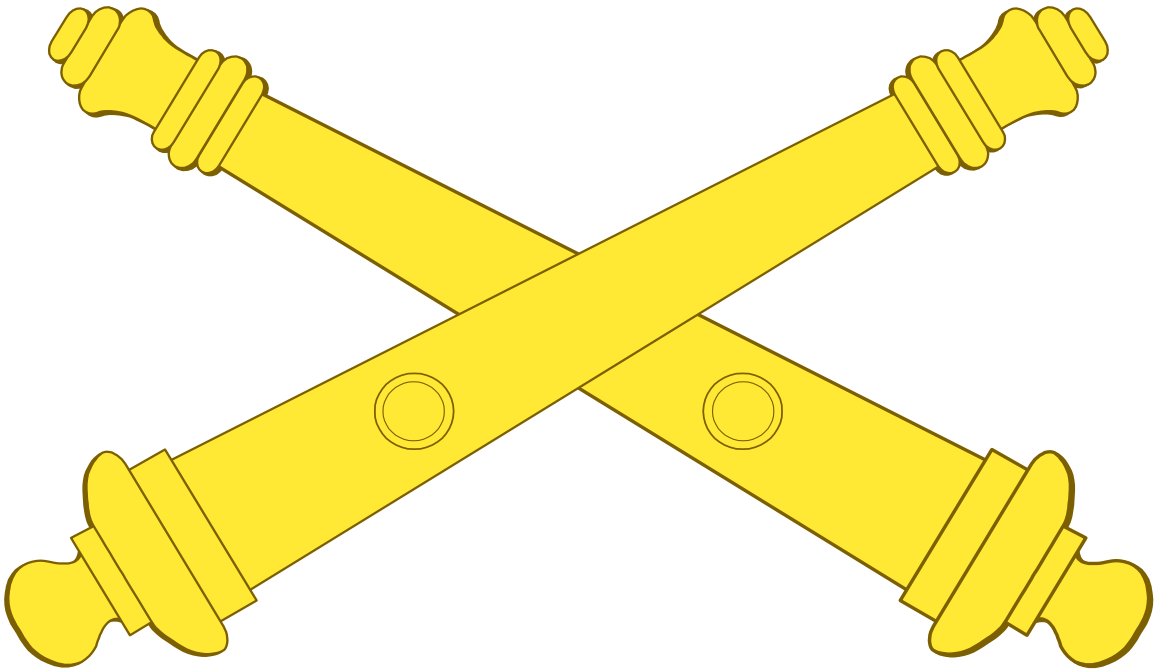
Applicable Publications:

TM 9-1345-209-10
TM 9-1290 208-23 & P
TM 9-1345-209-24 & P

Reference Publications:

TM 9-1345-209-10
TM 9-1290-208-23 & P
TM 9-1345-209-24 & P

FIELD



ARTILLERY

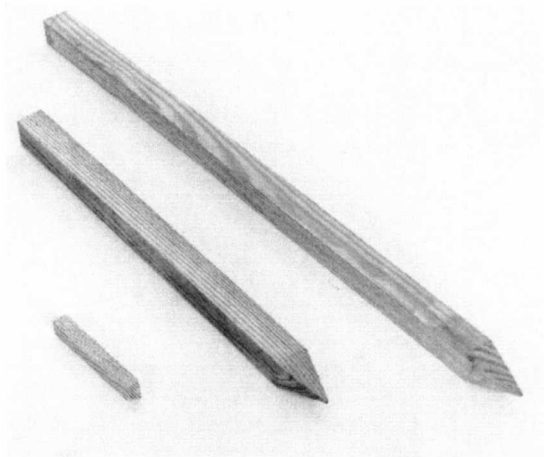


SURVEY WITNESS STAKE, AND SURVEY HUB STAKE

TD 6-8-1 (L)

TD 6-8-2 (L)

TD 6-8-5 (L)



TRAINING CATEGORY/LEVEL UTILIZED:
Field Artillery/Level 1, 2

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used to mark survey location for
artillery fire.

POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
Wood construction:
TD 6-8-1 (L) - 1 1/2" x 2'
TD 6-8-2 (L) - 3/4" x 6"
TD 6-8-5 (L) - 1 1/2" X 3'

PUBLICATIONS:
None

CALL FOR FIRE TRAINER INCREMENT II (CFFT II)

NSN 6910-01-576-8299
NSN 6910-01-576-8318
NSN 6910-01-576-8343

DVC 06-118/1 Call for Fire Trainer Increment II (CFFT II) 1:4 Configuration
DVC 06-118/2 Call for Fire Trainer Increment II (CFFT II) 1:12 Configuration
DVC 06-118/3 Call for Fire Trainer Increment II (CFFT II) 1:30 Configuration



CALL FOR FIRE TRAINER INCREMENT II (CFFT II) 1:4 CONFIGURATION (DVC 06-118/1)



CALL FOR FIRE TRAINER INCREMENT II (CFFT II) 1:30 CONFIGURATION (DVC 06-118/3)

Training Category/Level Utilized:
Filed Artillery/Level 1

Source and Method of Obtaining:
Fixed Price Contract with fidelity Technologies.

Logistic Responsible Command, Service, or Agency:
PEO-STRI, Orlando FL

Purpose of Trainer:
Train how to call for fire.

Functional Description:

"The capabilities of the CFFT II is increased in that it will train Close Air Support (CAS), be able to train Classified materiel using a removable hard-drive, and will be able to connect to other trainers." The CFFT II shall be simulated equipment that provides realistic high fidelity virtual environments and intelligent friendly, opposing and non-combatant simulated forces. The CFFT II shall be designed to provide quality training for the Fire Support Specialist, MOS 13F, Skill Levels 10-40, and company grade Field Artillery Officers, as well as a common observed fire trainer for all Soldiers.

There are three variants of the CFFT II; the 1:30 (an institutional trainer), the 1:4 and 1:12 which can be deployed. The CFFT II shall be able to operate in a stand-alone mode to train from one to thirty students in an institutional training environment. The CFFT II located at the unit level will provide both familiarization and sustainment training for observed fire tasks not only for fire support personnel but also for Soldiers of all MOS's without the use of live ammunition.

It will be capable of being used in conjunction with the Fire Support Combined Arms Tactical Trainer (FSCATT) to train artillery units in collective tasks in a combined-arms environment. The CFFT II shall be interoperable with other Combined Arms Tactical Trainers (CATT). The CFFT II will be able to simulate the call for CAS, mortar fire and call for

NFG. The CFFT II will monitor performance and provide feedback in accordance with the Standard After Action Review (STAAR) system. The CFFT II shall be Distributive Interactive Simulation/High Level Architecture (DIS/HLA) compliant.

Physical Information:

(Information not available)

Equipment Required, Not Supplied:

Room with tables and chairs for the 1:4 and 1:12 configurations.

Special Installation Requirements:

1:30 requires the room to have tiers.

Power Requirements:

120vac

Applicable Publications:

Operator Manual – TD 06-6910-708-10

TSUH – TD 06-6910-708-TSUH

Maintenance Manual – SMM 06-6910-708-20

Reference Publications:

N/A

Training Requirements Supported:

Train soldiers how to call for fire.

CALL FOR FIRE TRAINER (CFFT) 1:4 CONFIGURATION

DVC 06-111B
DVC 06-111C

Call for Fire Trainer (CFFT) 1:12 Configuration
Call for Fire Trainer (CFFT) 1:30 Configuration



Functional Description:

The CFFT shall be simulated equipment that provides realistic high fidelity virtual environments and intelligent friendly, opposing and non-combatant simulated forces. The CFFT shall be designed to provide quality training for the Fire Support Specialist, MOS 13F, Skill Levels 10-40, and company grade Field Artillery Officers, as well as a common observed fire trainer for all Soldiers.

There are three variants of the CFFT; the 1:30 (an institutional trainer), the 1:4 and 1:12 which can be deployed. The CFFT shall be able to operate in a stand-alone mode to train from one to thirty students in an institutional training environment. The CFFT located at the unit level will provide both familiarization and sustainment training for observed fire tasks not only for fire support personnel but also for Soldiers of all MOS's without the use of live ammunition. It will be capable of being used in conjunction with the Fire Support Combined Arms Tactical Trainer (FSCATT) to train artillery units in collective tasks in a combined-arms environment. The CFFT shall be interoperable with other Combined Arms Tactical Trainers (CATT). The CFFT will be able to simulate the call for CAS, mortar fire and call for NFG. The CFFT will monitor performance and provide feedback in accordance with the Standard After Action Review (STAAR) system. The CFFT shall be Distributive Interactive Simulation/High Level Architecture (DIS/HLA) compliant.

Purpose of Trainer:

Train how to call for fire.

Training Requirements Supported:

Train soldiers how to call for fire.

Physical Information:

N/A

Equipment Required, Not Supplied:

Room with tables and chairs for the 1:4 and 1:12

DVC 06-111A
NSN 6910-01-560-3668

Special Installation Requirements:

1:30 requires the room to have tiers

Power Requirements:

120vac

Training Category/Level Utilized:

N/A

Applicable Publications:

Operator Manual – TD 06-6910-708-10

TSUH – TD 06-6910-708-TSUH

Maintenance Manual – SMM 06-6910-708-20

Reference Publications:

N/A

Source and Method of Obtaining:

Fixed Price Contract with Fidelity Technologies

Logistic Responsible Command, Service, or Agency:

PEO STRI

FIRE CONTROL PANEL TRAINER (FCPT)



Functional Description:

Commercial Off-The-Shelf PC-Based Trainer with Touch Screen Technology.

Maintains Current Tactical Proficiency Trainer Capabilities (3 Modes of Operation)
Institutional Mode, Stand-Alone Mode, Free Play Mode.

Developed by Aviation and Missile Command Software Engineering Directorate.

Purpose of Trainer:

Used to simulate the M270A1 or HIMARS tactical fire control panel. The accompanying software program provides training scenarios that aid the operator in improving the skills required to perform tactical fire missions on the launcher platform. In the institutional mode, the scenarios are instructor driven for feedback on the student skill growth.

Physical Information:

Trainer is a commercial off the shelf PC. Monitor has touch screen technology to provide virtual fire control panel functions and controls.

Equipment Required, Not Supplied:

One desk and chair per trainer

Special Installation Requirements:

None

Power Requirements:

110 vac 60 Hz

Training Category/Level Utilized:

Artillery/ Level 1, 3

Training Requirements Supported:

MOS's

13M10, 13M20, 13M30

DVC 06-109

Applicable Publications:

Operators Handbook for the Multiple Launch Rocket System (MLRS) (Embedded in the trainer software)

Reference Publications:

TM 9-1055-647-13&P (IETM - MLRS M270A1 Operators Manual)

TM 9-1055-1646-13&P (IETM - HIMARS Operators Manual)

Source and Method of Obtaining:

Not generally available for issue

Fielding coincident with M270A1 or HIMARS launchers fielding by PM PFRMS

Logistic Responsible Command, Service, or Agency:

PEO STRI

TACTICAL PROFICENCY TRAINER-DIGITAL ENABLER UNIT (TPT-DEU)

PICTURE NOT AVAILABLE

Functional Description:

The Tactical Proficiency Trainer-Digitization Enabler Unit (TPT-DEU) is a communication interface device that provides the required digital connection between the M270/M270A tactical Proficiency Trainer (TPT) and the Single Channel Ground and Airborne Radio System (SINCGARS). The TPT-DEU will be utilized by Multiple Launch Rocket System (MLRS) personnel (MOS 13M, 13P, 13F) and communications support personnel (MOS 31U) to effectively perform training in realistic tactical scenarios in a non-tactical environment.

Purpose of Trainer:

Information not available

The TPT-DEU performs the efficient interface of digital communication between two types of existing hardware, the SINCGARS and up to three TPTs. The utilization of the TPT-DEU eliminates the need for multiple SINCGARS for the units of a battery while maintaining the remote Command and Control capability of the battery for up to three trainers.

Physical Information:

Information not available

Equipment Required, Not Supplied:

Information not available

Special Installation Requirements:

Information not available

Power Requirements:

Information not available

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

MOS 13M, 13P, 13F, 31U

Applicable Publications:

Information not available

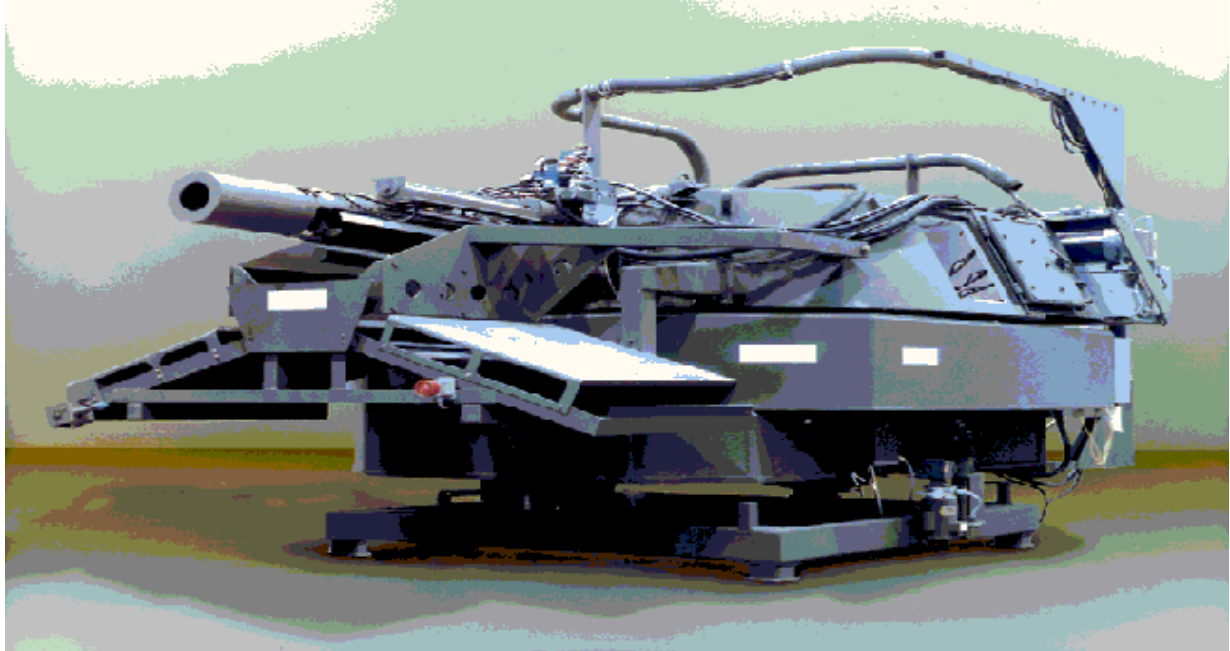
Reference Publications:

Information not available

FIRE SUPPORT COMBINED ARMS TACTICAL TRAINER (FSCATT)

NSN Not Assigned
NSN Not Assigned

DVC 06-68A FSCATT A5
DVC 06-68G FSCATT A6



Training Category/Level Utilized:
Field Artillery/Level 3

Logistic Responsible Command, Service, or Agency:
STRICOM

Source and Method of Obtaining:
Not generally available for issue (limited production).

Purpose of Trainer:
Train the gunnery team (gunnery crew 13B, Fire Direction 13E). Also train with the 13F, Forward Observer in the Closed Loop mode using the GUARDFIST II.

Functional Description:
Functional Description:
Shoots just like the real M109 SP Howitzer. Traverses 90 degrees left and right, elevates and cants just like the real thing. Uses dummy rounds, fuzzes, and charges. Has sensors that read the round, charge, fuze and fuze setting. Has AAR printout.

Physical Information:
The turret is taken off of an actual howitzer and installed in an aluminum box making the inside of the cab appear and operated the same as the actual howitzer.

Equipment Required, Not Supplied:

Equipment Required, Not Supplied:
The M109A5/A6 Howitzer crews must (as applicable) provide some or all of the following equipment when using the Howitzer Crew Trainer (HCT) (depending on what tasks are to be trained during that period):

Test Target Board with Havgars	Chamber Swab
Gunner's Quadrant	Staff Cleaning, 4 Foot
Gun Display Unit OD-144(V)1/	Screw Driver, Flat Tip SP
GYK-29(V) (Mount Required)	Hammer, Hand
Sight, Breech Bore	Wrench, Spanner
	Obturator
M140 Alignment Device	Wrench, Spanner Fixed
(Mount Required)	Oiler, Hand
M1A1 Collimator	Cleaning Tool, Vent
M1A2 Aiming Post	Spacers, M864
M2 Aiming Circle	Spacers, M825A1
M14 Light, Aiming Post	Twine, Fibrous
	(Boresight)
M27, M34, and M35 Fuze Setters	Thermometer (Powder)
M118 Direct Fire Telescope	Fire Extinguisher
M18 Fuze Wrench	TA 312's/PRC 127's
M118A2 Elbow Telescope	(if desired)
Belt Primer	WF-16 Field Wire
Utility Pale	Holder, Chamber
	Swabbing Sponge

Special Installation Requirements:

Access to building must be a minimum of 12 ft x 12 ft. Footprint is 35 ft x 35 ft for the A5 and 35 ft x 38 ft for the A6. Floor must be capable of supporting 14 tons.

TD6-6920-704-10 (A6 HCT)

Reference Publications:

TM9-2350-311-Series (M109A5 SP Howitzer)
TM9-2350-314-Series (M109A6 SP Howitzer)

Power Requirements:

208/120vac, 3-phase, 60 Hz, 100amps service.

Training Requirements Supported:

13B 10, 13B 30, 13E 30, 13F 10, 13F 30

Applicable Publications:

TD6-6920-703-10 (A5 HCT)

Functional Description:

The trainer accurately simulates the Intermediate maintenance technician's man-machine interfaces of the AN/MPQ-64 radar system. The trainer consists of an Instructor/Operator Station, four Student Workstations, four antenna transceiver group simulators, four test equipment simulators, a main power distribution unit, and one Software Support Center

Special Installation Requirements:

12" raised floor system, 1800 square feet of floor space

Power Requirements:

110/220vac, 3-phase, 4 wires, 60 Hz, "Wye connected, kva/phase (unknown)

Applicable Publications:

None

Reference Publications:

TM 9-6920-700-10
TM 9-6920-700-20

Training Requirements Supported:

US Army MOS 35M10

Physical Information:

Instructor/Operator Station	44" x 72" x 53"
Student Station	44" x 72" x 53"
Software Support Center	30" x 120" x 50"
Antenna Transceiver Group	38" x 76" x 70"
Test Equipment Simulator	26" x 23" x 45"
Main Power Distribution Unit	30" x 32" x 62"

Equipment Required, Not Supplied:

None

Applicable Publications:

Operator Manual – TD 06-6910-708-10
TSUH – TD 06-6910-708-TSUH
Maintenance Manual – SMM 06-6910-708-20

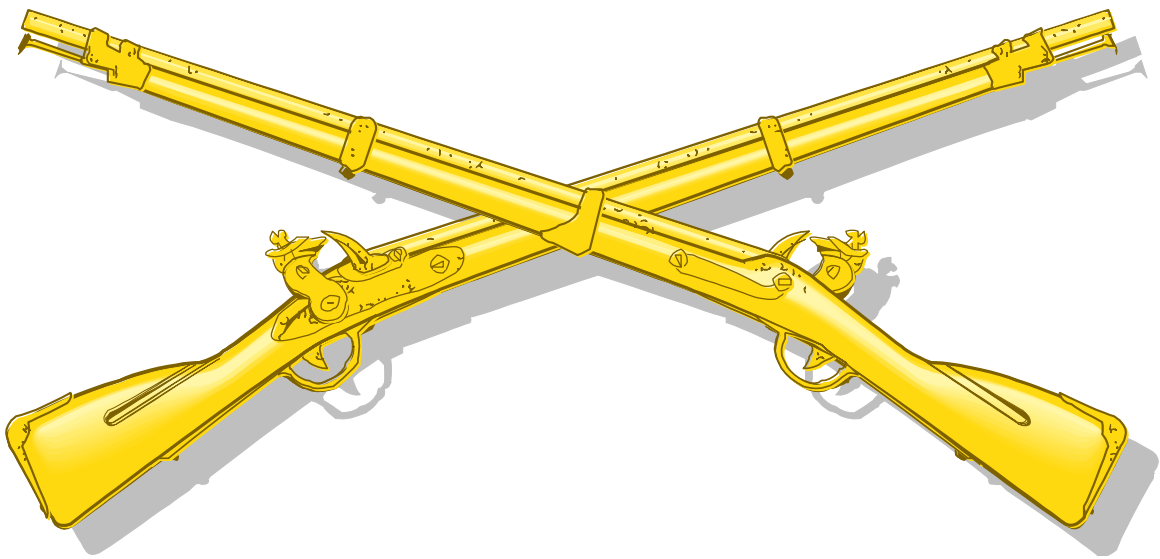
Reference Publications:

N/A

Training Requirements Supported:

Train soldiers how to call for fire.

INFANTRY



DVC-T 07-107

PUGIL STICK



Functional Description:

DVC-T 07-107, Pugil Stick, is a foam padded tube that is 5 ½” in diameter.

Purpose of Trainer:

Training in pugil techniques engages in graded, realistic, one-on-one pugil bouts for purpose of increasing soldier skill in rifle-bayonet, aggression and confidence. This training furnishes the fighter with an opponent who can think, move, fight back, and (most importantly) make corrections. It provides realism.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

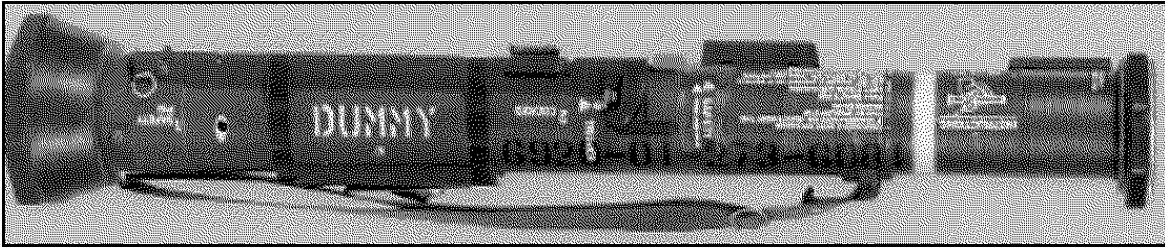
Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

**AT4 FIELDING HANDLING TRAINER (FHT)
(ROCKET LAUNCHER INERT TRAINER)**



Functional Description:

DVC-T 07-106, AT4, Field Handling Trainer, is a plastic inert replica with the external appearance and weight of the actual AT4 FHT.

Purpose of Trainer:

The use of this TADSS allows safe, realistic handling of the rocket launcher

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

DVC-T 07-105

RIFLE REST



Functional Description:

DVC-T 07-105, Rifle Rest, is a wooden crate that provides position cradle for firing and aiming the weapon.

Purpose of Trainer:

This device is used for BRM training.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

BAYONET CHEST CAVITY



Functional Description:

DVC-T 07-101, Bayonet Chest Cavity, is a plastic block 16 x 16 x 4 ½ inches with a 14 x 14 x 2 ¼ inch wooded core.

Purpose of Trainer:

This device will be used to teach bayonet training to develop confidence, coordination, and endurance. Also, this device will be used to familiarize the new soldier with the basics of bayonet fighting, and to assist in developing discipline and esprit.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

9 MM PLASTIC PISTOL



Description:

DVC-T 07-099, 9 MM Pistol, is a plastic replica with the external appearance and weight of the actual pistol.

Training Application:

This device can be used for teaching disassembly and reassembly procedures without using the real pistols.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

DVC T 07-096 CARBINE, M4, PLASTIC



SOURCE AND METHOD OF OBTAINING:

Available at local Training Support Center.

TRAINING APPLICATION:

This device can be used in field exercise not requiring live fire.

DESCRIPTION:

Plastic replica of the external appearance and weight of the actual M-4 Carbine.

DVC T 07-095

JAVELIN RETROFIT KIT -SAAF

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

JAVELIN MISSILE SIMULATOR ROUND (MSR) W/COMMAND AND LAUNCH UNIT (CLU)



Functional Description:

DVC-T 07-093, JAVELIN Missile Simulator Round, is a dummy round with same weight, shape, size, form, color, feel, tactile sensations, center-of-gravity, and appearance of the tactical JAVELIN round.

Purpose of Trainer:

This device is used to plug the barrel of the M16A1/A2 rifle at the receiver group to indicate the weapon is cleared. The Javelin MSR will be used to train the soldier in the handling and transportation of the round and the assembly and disassembly procedures with a CLU.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

DVC-T 07-090

MULTIPURPOSE ARCADE COMBAT SIMULATOR (MACS) (NINTENDO)

Functional Description:

DVC-T 07-090, MACS: The MACS is a rifle marksmanship sustainment training device! based on a "Super Nintendo" system. A light pen attached to a surrogate M16 rifle provides the interface between the weapon and monitor on which the training programs are displayed.

Purpose of Trainer:

MACS has application in the sustainment of shooting skills, especially sight picture, sight alignment, trigger squeeze and breath control. Programs are provided which are intended to take the shooter from basic fundamentals through engagement of moving targets. Feedback and remediation exercises are fundamental to the programs. Use of the device in a structured bimonthly program has been shown to provide necessary sustainment of shooting skills.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

CHAMBER CHECKER (CHAMBER SAFETY FLAG)



Functional Description:

DVC-T 07-088, **Chamber Checker**, is a plastic replica of the chamber safety flag.

Purpose of Trainer:

This device is used to plug the barrel of the M16A1/A2 rifle at the receiver group to indicate the weapon is cleared.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

RIDDLE SIGHTING DEVICE



Functional Description:

DVC-T 07-087, **Riddle Sighting Device**, is a silhouette target printed on a plastic strip which adheres to a small metal frame that attaches to the front sight of the M16A2 Rifle. The device is attached to the front sight post and then moved until the soldier obtains the correct sight picture.

Purpose of Trainer:

The device is used to insure that soldiers can obtain a correct sight picture with their own weapons.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

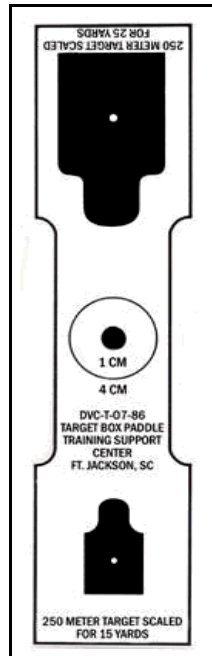
Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

TARGET BOX PADDLE



Functional Description:

DVC-T 07-086, Target Box Paddle, is a plate of Plexiglas, 12 5/8" in length, with a silhouette target (scaled for 250 meters at 25 meters and 15 yards) on each end. On the center of the handle there are 2 circles (4cm and 1cm). The smaller one is for checking the shot group size during the target box exercise and the larger circle is for the live fire exercise. Soldiers look through the sights of an M16A2 (in a cradle) and tell their counterparts downrange in which direction they need to move the target paddle to achieve proper aiming point. When the proper aiming point is achieved, the assistants mark the target board. Firers need to have 3 out of 3 shots within the 1cm circle to receive a go on the exercise.

Purpose of Trainer:

Practice with this device insures that soldiers can find the same aiming point each time they fire.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

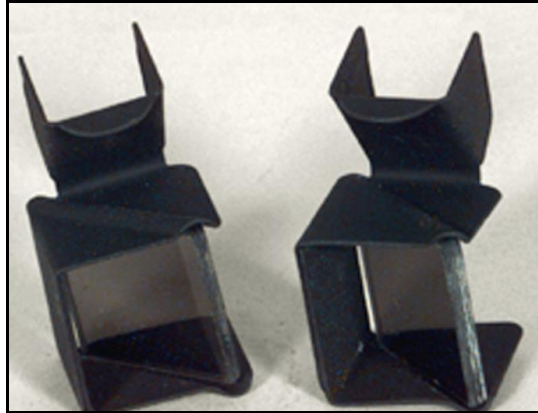
Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

M16A2 SIGHTING DEVICES (Right)



Functional Description:

DVC-T 07-084B/R, M16A2, Sighting Device, is a metal frame that is attached to the rear of the rifle carrying handle. This device is issued for right-handed shooters. A piece of smoked Plexiglas is inserted in the frame to allow a coach to view the firers aiming point. This device slips onto the rear of the carrying handle for the M16A2 rifle. When the shooter looks through his sights, the coach, positioned alongside the shooter, can look at the reflection on the tinted glass and view the same picture. This device is also known as the cheater or Belgian Sight.

Purpose of Trainer:

This device allows coaches to insure that soldiers are aiming correctly at the targets.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

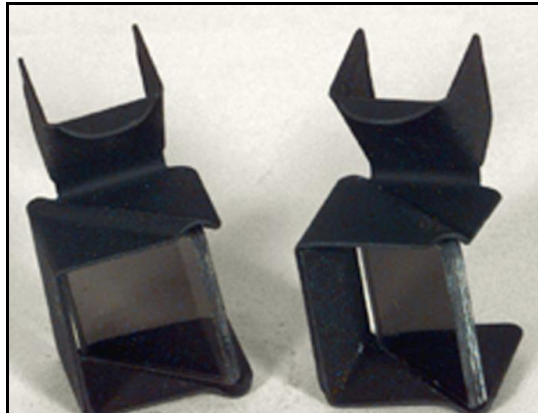
Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

M16A2 SIGHTING DEVICES (Left)



Functional Description:

DVC-T 07-084B/L, M16A2, Sighting Device, is a metal frame that is attached to the rear of the rifle carrying handle. This device is issued for left-handed shooters. A piece of smoked Plexiglas is inserted in the frame to allow a coach to view the firers aiming point. This device slips onto the rear of the carrying handle for the M16A2 rifle. When the shooter looks through his sights, the coach, positioned alongside the shooter, can look at the reflection on the tinted glass and view the same picture. This device is also known as the cheater or Belgian Sight.

Purpose of Trainer:

This device allows coaches to insure that soldiers are aiming correctly at the targets.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

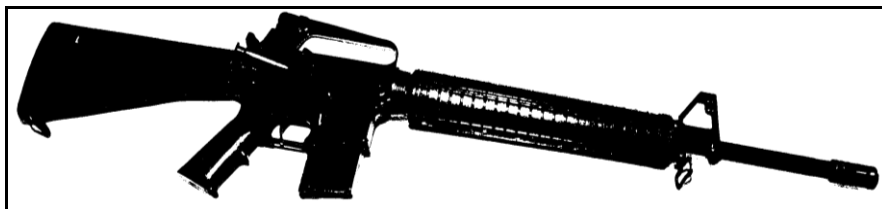
Information not available

Applicable Publications:

Information not available

DVC-T 07-083B

M16A2 PLASTIC RIFLE

**Functional Description:**

DVC-T 07-083B, M16A2, is a full-scale, three dimensional plastic replica of the rifle. The barrel has been modified.

Purpose of Trainer:

This device can be used for drill and ceremony, instruction, physical training, and demonstrations.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

CLOSE COMBAT MISSION CAPABILITY KIT (CCMCK) FOR M249 SQUAD AUTOMATIC WEAPON (SAW)



CCMCK Training Bolt and Slide Assembly



CCMCK Face Mask

Training Category/Level Utilized:

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC or as AAL to the weapon.

Purpose of Trainer:

The purpose of this training device is to temporarily convert the M249 Squad Automatic Weapon (SAW) for firing of low-velocity 5.56mm marking ammunition.

This device is a component of the Close Combat Mission Capability Kit (CCMCK). The CCMCK weapon conversion system and ammunition allows for force-on-force close combat training using ammunition that marks the target yet presents minimal hazard to personnel wearing appropriate safety equipment. Other CCMCK weapon conversion kits include the M16/M4 Rifle/Carbine, M9 Semi-automatic Pistol, and M11 Compact Pistol.

Functional Description:

The CCMCK weapon conversion kit allows for Soldier/Operator conversion and installs in the same manner as the standard service bolt and slide assembly. The converted weapon retains original upper/lower receivers, slides, and frames with mounted accessories (sights, rail systems, optics/electro-optics, aiming lights, etc.), if attached.

CCMCK provides normal weapon employment cues such as aiming, firing, force-on-force training, and interactive live-fire scenario task and mission execution. The CCMCK conversion kit will not allow service ammunition to be fired when a weapon is converted for use with the CCMCK ammunition.

CCMCK marking ammunition is loaded into the standard magazine for the weapon, fed into the converted weapon, and operated in accordance with the normal operating procedures for that weapon. Once loaded, it cycles the weapon and functions in the same manner as service ammunition. Converting the weapon to use CCMCK marking ammunition does not cause any undue effects or degradation of the normal service components, overall weapon longevity, or the general function of the weapon.

Physical Information:

The CCMCK conversion kit for the M249 consists of a training bolt and slide assembly that directly replaces the standard service bolt and slide assembly, a CCMCK specific ejector blade assembly that replaces the standard service ejector blade, and a blue feed tray adapter. All CCMCK weapon conversion kits have distinctive blue markings to enable identification under normal

visibility conditions that the weapon is modified for CCMCK firing. CCMCK M249 conversion kit dimensions: 5.7”(L) x 1.1”(W) x 1.5”(H), Weight: 0.7 lbs, Caliber: 5.56mm.

The CCMCK face mask is a single piece nylon mask which wraps around the lower face and neck and attaches in the back with velcro. The brow band adds additional protection between the helmet and goggles.

Equipment Required, Not Supplied:

As a minimum, the required safety equipment for using CCMCK in Force-On-Force training, in addition to the CCMCK face mask, will consist of single hearing protection, standard Combat Helmet or Advanced Combat Helmet, standard gloves, standard Sand, Wind and Dust goggles, groin protection, and two layers of clothing (standard combat shirt and Battle Dress Uniform (BDU) or Army Combat Uniform (ACU) with sleeves rolled down). These are included in the soldier and organizational equipment (OCIE) CTA 50-900 items. Safety equipment/clothing must be worn in a manner such that there is no exposed skin during training.

Special Installation Requirements:

(Information not available)

Power Requirements:

None

Applicable Publications:

TM 9-6920-3700-10: Operator’s Manual for Close Combat Mission Capability Kit (CCMCK).

TM 9-6920-3700-20: Unit Maintenance Manual for Close Combat Mission Capability Kit (CCMCK).

Reference Publications:

TM 43-0001-27: Army Ammunition Data Sheets, Small Caliber Ammunition.

TM 9-1305-201-34: Direct Support and General Support Maintenance Manual. Small Arms to 30mm Inclusive.

TM 9-1305-201-20: Organizational Maintenance Manual for Small Arms Ammunition to 30mm Inclusive.

TM 9-1005-201-10: Operator’s Manual Machine Gun, 5.56mm, M249 with equipment.

CLOSE COMBAT MISSION CAPABILITY KIT (CCMCK) FOR M16/M4 RIFLE/CARBINE



CCMCK Training Bolt and Carrier Assembly



CCMCK Face Mask

Training Category/Level Utilized:

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC or as AAL to the weapon.

Purpose of Trainer:

The purpose of this training device is to temporarily convert the family of M16 rifles (M16A2, M16A3, M16A4) and M4 carbines (M4, M4A1) for firing of low-velocity 5.56mm marking ammunition.

This device is a component of the Close Combat Mission Capability Kit (CCMCK). The CCMCK weapon conversion system and ammunition allows for force-on-force close combat training using ammunition that marks the target yet presents minimal hazard to personnel wearing appropriate safety equipment. Other CCMCK weapon conversion kits include the M249 Squad Automatic Weapon, M9 Semi-automatic Pistol, and M11 Compact Pistol.

Functional Description:

The CCMCK weapon conversion kit allows for Soldier/Operator conversion and installs in the same manner as the standard service bolt and carrier assembly. The converted weapon retains original upper/lower receivers, slides, and frames with mounted accessories (sights, rail systems, optics/electro-optics, aiming lights, etc.), if attached.

CCMCK provides normal weapon employment cues such as aiming, firing, force-on-force training, and interactive live-fire scenario task and mission execution. The CCMCK conversion kit will not allow service ammunition to be fired when a weapon is converted for use with the CCMCK ammunition.

CCMCK marking ammunition is loaded into the standard magazine for the weapon, fed into the converted weapon, and operated in accordance with the normal operating procedures for that weapon. Once loaded, it cycles the weapon and functions in the same manner as service ammunition. Converting the weapon to use CCMCK marking ammunition does not cause any undue effects or degradation of the normal service components, overall weapon longevity, or the general function of the weapon.

Physical Information:

The CCMCK conversion kit for the M16/M4 consists of a training bolt and carrier assembly that directly replaces the standard service bolt and carrier assembly. All CCMCK weapon conversion kits have distinctive blue markings to enable identification

under normal visibility conditions that the weapon is modified for CCMCK firing. CCMCK M16/M4 bolt and carrier assembly dimensions: 7.2”(L) x 1.0”(W) x 1.0”(H), Weight: 0.8 lbs, Caliber: 5.56mm.

The CCMCK face mask is a single piece nylon mask which wraps around the lower face and neck and attaches in the back with velcro. The brow band adds additional protection between the helmet and goggles.

Equipment Required, Not Supplied:

As a minimum, the required safety equipment for using CCMCK in Force-On-Force training, in addition to the CCMCK face mask, will consist of single hearing protection, standard Combat Helmet or Advanced Combat Helmet, standard gloves, standard Sand, Wind and Dust goggles, groin protection, and two layers of clothing (standard combat shirt and Battle Dress Uniform (BDU) or Army Combat Uniform (ACU) with sleeves rolled down). These are included in the soldier and organizational equipment (OCIE) CTA 50-900 items. Safety equipment/clothing must be worn in a manner such that there is no exposed skin during training.

Special Installation Requirements:

(Information not available)

Power Requirements:

None

Applicable Publications:

TM 9-6920-3700-10: Operator’s Manual for Close Combat Mission Capability Kit (CCMCK).

TM 9-6920-3700-20: Unit Maintenance Manual for Close Combat Mission Capability Kit (CCMCK).

Reference Publications:

TM 43-0001-27: Army Ammunition Data Sheets, Small Caliber Ammunition.

TM 9-1305-201-34: Direct Support and General Support Maintenance Manual. Small Arms to 30mm Inclusive.

TM 9-1305-201-20: Organizational Maintenance Manual for Small Arms Ammunition to 30mm Inclusive.

TM 9-1005-319-10: Operator’s Manual for Rifle, 5.56mm, M16A2; Rifle, 5.56mm, M16A3; Rifle, 5.56mm, M16A4; Carbine, 5.56mm, M4; Carbine, 5.56mm, M4A1.

CLOSE COMBAT MISSION CAPABILITY KIT (CCMCK) FOR M9 SEMI-AUTOMATIC PISTOL



CCMCK M9 Blue Training Barrel



CCMCK Face Mask

Training Category/Level Utilized:

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC or as AAL to the weapon.

Purpose of Trainer:

The purpose of this training device is to temporarily convert the M9 Semi-automatic Pistol for firing of low-velocity 9mm marking ammunition.

This device is a component of the Close Combat Mission Capability Kit (CCMCK). The CCMCK weapon conversion system and ammunition allows for force-on-force close combat training using ammunition that marks the target yet presents minimal hazard to personnel wearing appropriate safety equipment. Other CCMCK weapon conversion kits include the M16/M4 Rifle/Carbine, M249 Squad Automatic Weapon, and M11 Compact Pistol.

Functional Description:

The CCMCK weapon conversion kit allows for Soldier/Operator conversion and installs in the same manner as the standard service barrel. The converted weapon retains original upper/lower receivers, slides, and frames with mounted accessories (sights, rail systems, optics/electro-optics, aiming lights, etc.), if attached.

CCMCK provides normal weapon employment cues such as aiming, firing, force-on-force training, and interactive live-fire scenario task and mission execution. The CCMCK conversion kit will not allow service ammunition to be fired when a weapon is converted for use with the CCMCK ammunition.

CCMCK marking ammunition is loaded into the standard magazine for the weapon, fed into the converted weapon, and operated in accordance with the normal operating procedures for that weapon. Once loaded, it cycles the weapon and functions in the same manner as service ammunition. Converting the weapon to use CCMCK marking ammunition does not cause any undue effects or degradation of the normal service components, overall weapon longevity, or the general function of the weapon.

Physical Information:

The CCMCK conversion kit for the M9 consists of a blue training barrel assembly that directly replaces the standard service barrel. All CCMCK weapon conversion kits have distinctive blue markings to enable identification under normal visibility.

conditions that the weapon is modified for CCMCK firing. CCMCK M9 barrel dimensions: 5.0”(L) x 0.6”(W) x 1.1”(H), Weight: 0.4 lbs, Caliber: 9mm.

The CCMCK face mask is a single piece nylon mask which wraps around the lower face and neck and attaches in the back with velcro. The brow band adds additional protection between the helmet and goggles.

Equipment Required, Not Supplied:

As a minimum, the required safety equipment for using CCMCK in Force-On-Force training, in addition to the CCMCK face mask, will consist of single hearing protection, standard Combat Helmet or Advanced Combat Helmet, standard gloves, standard Sand, Wind and Dust goggles, groin protection, and two layers of clothing (standard combat shirt and Battle Dress Uniform (BDU) or Army Combat Uniform (ACU) with sleeves rolled down). These are included in the soldier and organizational equipment (OCIE) CTA 50-900 items. Safety equipment/clothing must be worn in a manner such that there is no exposed skin during training.

Special Installation Requirements:

(Information not available)

Power Requirements:

None

Applicable Publications:

TM 9-6920-3700-10: Operator’s Manual for Close Combat Mission Capability Kit (CCMCK).

TM 9-6920-3700-20: Unit Maintenance Manual for Close Combat Mission Capability Kit (CCMCK).

Reference Publications:

TM 43-0001-27: Army Ammunition Data Sheets, Small Caliber Ammunition.

TM 9-1305-201-34: Direct Support and General Support Maintenance Manual. Small Arms to 30MM Inclusive.

TM 9-1305-201-20: Organizational Maintenance Manual for Small Arms Ammunition to 30MM Inclusive.

TM 9-1005-317-10: Operator’s Manual Pistol, Semi-automatic, 9mm, M9.

BFV-ODS SUPER ELEVATION SWITCHBOX

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

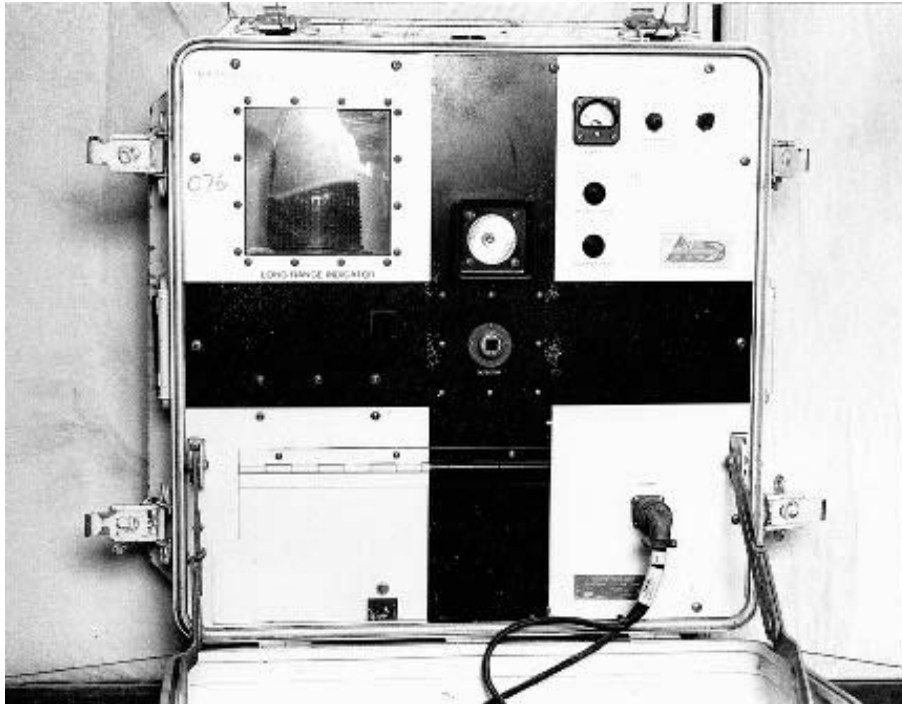
Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

MULTIPLE RANGE ALIGNMENT DEVICE (MRAD) M3

DVC 07-135



TRAINING CATEGORY/LEVEL UTILIZED:
Combat Arms/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
Battery, BA 300 (6
V lantern) 4 ea.

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used as an aid in the field alignment of
all heavy weapon MILES transmitters.

POWER REQUIREMENTS:
24 V DC

PHYSICAL INFORMATION:
Transit Case: 26" x 31" x 13"
Weight: 65 lbs.

PUBLICATIONS:
TM 9-1270-223-10
TC 25-6-3

LASER MARKSMANSHIP TRAINING SYSTEM (LMTS) SMALL SUITE



Training Category/Level Utilized:

Basic weapons/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC.

Purpose of Trainer:

The Laser Marksmanship Training System (LMTS) will simulate weapons training events which lead to live fire qualifications for individual and crew weapons. LMTS will be used primarily as a unit/individual, indoor/outdoor, multi-lane, small arms crew served and individual marksmanship training device. It uses the individual soldier's personal issued weapon and will allow units to conduct individual and sustainment marksmanship training using biological and chemical protective equipment. Since it is

light, transportable, uses self sustained power sources and requires no fixed facilities support, it is also ideal for training scenarios in the field.

The LMTS Small Suite will support 2 rifle lanes plus one machine gun lane and is optimized for battalion Basic Rifle Marksmanship training.

Functional Description:

The LMTS is a system that provides quantitative feedback in place of the “Dime/Washer” exercise, focusing on the four fundamentals of marksmanship (steady position, sight alignment and picture, breathe control and trigger squeeze). It provides real time feedback in all seasons on the soldier’s assigned weapon.

The LMTS uses Class IIIA Laser Transmitters to simulate the fire capability of pistols, rifles, and machine guns. The Laser Transmitters attach to the barrel of the weapon and have adjustments for windage and elevation. Soldiers can dry fire, use standard blanks or SafeShot blanks with Blazer upper receivers to activate the laser transmitter. The Zero Reflective target is used to zero the weapons and laser transmitter. It also provides training for correct sight picture and alignment. The laser detectors are located in the TR700 and TR900 targets and are optimized for use at 25 meters however these will work accurately from 6 inches out to 50 meters for the TR700 target and from about 6 inches out to about 75 meters for the TR900 target. The TR700 target registers and counts the number of hits on a numerical counter up to 99. The TR700 uses target silhouette masks in 100, 200, or 300 meter sizes to simulate the target size and scale. The TR900 target is connected via cable to a scoring device loaded with software, which records the time and placement of shots on the target by the laser transmitter upon being “fired” by the soldier. The target comes with overlays to simulate various distances for the soldier’s point of aim. The scoring device displays the time of shot, time between shots, placement of shots, the shot order (1,2,3....), center of shot group and shot dispersion. Up to ten (10) targets can be connected to a single scoring device.

The Machine Gun Training System target is a replica of the exact 10 meter qualification target used by the US Army. The target registers hits from the laser transmitter mounted on the machine gun and requires only 10 meters for operation. The target comes enclosed in its own carry case, which is portable and can be set up in a variety of locations to meet machine gun training requirements. With either standard blank ammunition or the addition of the SafeShot blank firing replacement barrels for the M-249, M-240, and the M-60, Training Tasks 1-8 and Qualification Tasks 9 and 10 can be met, providing full recoil and instant feedback. The MGTS gives shooters the ability to observe hits and a near miss, adjust fire, and operate with speed, and allows trainers to observe the shots in real time, save the session for later review or printed as a hard copy reference. Up to 10 targets may be linked to one computer. The MGTS includes all cables and software and is stored in its own travel storage case.

Physical Information:

The LMTS Small Suite is comprised of the following components:

One 460 System consists of two TR900 targets, two M16 25m/15m overlays and two M9 overlays, two MP400 lasers, two ‘AA’ batteries, two 5.56 mandrels, two M9 mandrels, one scoring device and cables, control box, BL640 Long cable and BL650 Daisy chain cables, 2 power strips, software and Instruction manual.

Two 130 (1 target) Systems consisting of one TR700 target, military mask set, power supply, one 5.56 mandrel, one 9mm mandrel, one MP400 laser transmitter, one ‘AA’ battery, 130 Instruction manual.

One Machine Gun Training System Package (MGTS) comes in one transit case with MP400 Laser with barrel brackets for M249, M240 and M2; 30m main cable, 3m Daisy Chain (linking) cable, power supply, software CD and MGTS Instruction manual.

One LMTS Accessory Kit consists of Laser Alignment Device (LAD) 5.56 with case, Laser Alignment device Multi-caliber, two 25M Zero Reflective targets, and two LTA380 M9 Laser Transmitters 12volt power converter, power strip, one 100ft extension cord, three 50ft extension cords, and 6 ea 25ft extension cords.

Equipment Required, Not Supplied:

Soldiers issued weapon (M9, M16/M4, M249).

Special Installation Requirements:

None

Power Requirements:

One ‘AA’ battery for each MP400 laser transmitter; four ‘AA’ batteries or 110V/50 Hz power supply for TR700 target; 110V/50 Hz for each TR900 target, 110V/50 Hz for the MGTS; 110V/50 Hz for the laptop scoring device.

Applicable Publications:

460 System Instruction Manual

130 System Instruction Manual
MGTS Instruction Manual

Reference Publications:

460 System - FM 3-22.9 (FM 23-9); Exercises 1-4;
MGTS – Training Tasks 1-8 and Qualification tasks 9 & 10

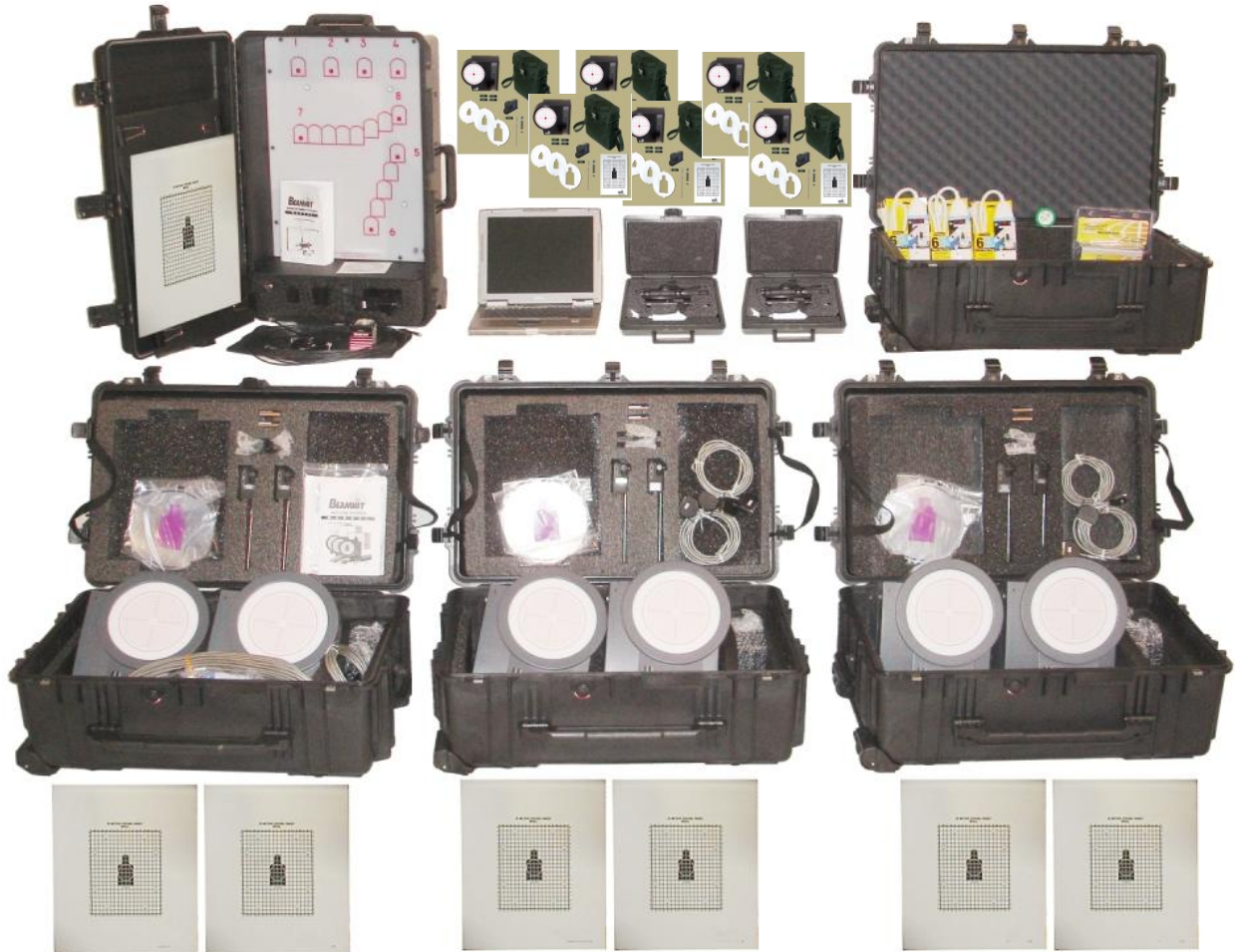
Training Requirements Supported:

Primary Marksmanship Instruction, Remedial (on-site) marksmanship instruction during live fire.

LASER MARKSMANSHIP TRAINING SYSTEM (LMTS) LARGE SUITE

NSN Not Assigned
NSN Not Assigned

DVC 07-132/A Laser Marksmanship Training System (LMTS) Large Suite
DVC 07-132/B Laser Marksmanship Training System (LMTS) ROTC



Training Category/Level Utilized:

Basic Weapons/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC.

Purpose of Trainer:

The Laser Marksmanship Training System (LMTS) will simulate weapons training events which lead to live fire qualifications for individual and crew weapons. LMTS will be used primarily as a unit/individual, indoor/outdoor, multi-lane, small arms crew served and individual marksmanship training device. It uses the individual soldier's personal issued weapon and will allow units to conduct individual and sustainment marksmanship training using biological and chemical protective equipment. Since it is light, transportable, uses self sustained power sources and requires no fixed facilities support, it is also idea for training scenarios in the field.

The LMTS Large Suite will support 6 rifle lanes plus one machine gun lane and is optimized for brigade Basic Rifle Marksmanship training.

Functional Description:

The LMTS is a system that provides quantitative feedback in place of the “Dime/Washer” exercise, focusing on the four fundamentals of marksmanship (steady position, sight alignment and picture, breathe control and trigger squeeze). It provides real time feedback in all seasons on the soldier’s assigned weapon’s transmitter. The Zero Reflective target is used to zero the weapons and laser transmitter. It also provides training for correct sight picture and alignment. The laser detectors are located in the TR700 and TR900 targets and are optimized for use at 25 meters however these will work accurately from 6 inches out to 50 meters for the TR700 target and from about 6 inches out to about 75 meters for the TR900 target. The TR700 target registers and counts the number of hits on a numerical counter up to 99. The TR700 uses target silhouette masks in 100, 200, or 300 meter sizes to simulate the target size and scale. The TR900 target is connected via cable to a scoring device loaded with software, which records the time and placement of shots on the target by the laser transmitter upon being “fired” by the soldier. The target comes with overlays to simulate various distances for the soldier’s point of aim. The scoring device displays the time of shot, time between shots, placement of shots, the shot order (1,2,3....), center of shot group and shot dispersion. Up to ten (10) targets can be connected to a single scoring device.

The Machine Gun Training System target is a replica of the exact 10 meter qualification target used by the US Army. The target registers hits from the laser transmitter mounted on the machine gun and requires only 10 meters for operation. The target comes enclosed in its own carry case, which is portable and can be set up in a variety of locations to meet machine gun training requirements. With either standard blank ammunition or the addition of the SafeShot blank firing replacement barrels for the M-249, M-240, and the M-60, Training Tasks 1-8 and Qualification Tasks 9 and 10 can be met, providing full recoil and instant feedback. The MGTS gives shooters the ability to observe hits and a near miss, adjust fire, and operate with speed, and allows trainers to observe the shots in real time, save the session for later review or printed as a hard copy reference. Up to 10 targets may be linked to one computer. The MGTS includes all cables and software and is stored in its own travel storage case.

Physical Information:

The LMTS Large Suite is comprised of the following components:

One 460 System consists of six TR900 targets, six M16 25m/15m overlays and two M9 overlays, six MP400 lasers, six ‘AA’ batteries, six 5.56 mandrels, two M9 mandrels, one scoring device and cables, control box, BL640 Long cable and BL650 Daisy chain cables, 2 power strips, software manuals.

Six 130E Warrior kits consisting of one TR700 target, military mask set, power supply, one 5.56 mandrel, one 9mm mandrel, one MP400 laser transmitter, one ‘AA’ battery, 130 Instruction manual.

One Machine Gun Training System Package (MGTS) comes in one transit case with MP400 Laser with barrel brackets for M249, M240 and M2; 30m main cable, 3m Daisy Chain (linking) cable, power supply, software CD and MGTS Instruction manual.

One LMTS Accessory Kit consists of Laser Alignment Device (LAD) 5.56 with case, Laser Alignment device Multi-caliber, seven 25M Zero Reflective targets, and two LTA380 M9 Laser Transmitters 12volt power converter, power strip, one 100ft extension cord, three 50ft extension cords, and 6 ea 25ft extension cords.

Cases:

- 65lbs (20 7/8 x 12 ½ x 32 15 15/16)
- 42lbs (20 7/8 x 12 ½ x 32 15/16)
- 42lbs (20 7/8 x 12 ½ x 32 15/16)
- 35lbs (20 11/16 x 12 ½ x 13 7/8)
- 68lbs (20 7/8 x 12 ½ x 32 15/16)
- Total weight: 252lbs
- Cubic feet: 21.97

The DVC 07-132/B contains the following parts:

- 5ea 25M Zero, 5ea M16 Non-firing System,
- 5ea TR-700 Target, 5ea E-type mask set, 1ea CC-700
- Carrying Case, 2ea USAR Target Scoring Device,
- 5ea Advance Alt-C Target System, 1ea 16 Non-gun Case, 1ea 460-5 Target System consisting of: (5 x TR-900 Targets , 5 x Power Supplies, 1 x Control Cable, 4 x Daisy Chain Cables, 1 x USB Control Box, 1 x CB-440 Cable, 1 x Instruction Manual, 1 x Software CD, 5 x Military Overlay pack, 3 x Carrying Cases)

Equipment Required, Not Supplied:

Soldiers issued weapon (M9, M16/M4, M249).

Special Installation Requirements:

None

Power Requirements:

One 'AA' battery for each MP400 laser transmitter; four 'AA' batteries or 110V/50 Hz power supply for TR700 target; 110V/50 Hz for each TR900 target, 110V/50 Hz for the MGTS; 110V/50 Hz for the laptop scoring device.

Applicable Publications:

460 System Instruction Manual
MGTS Instruction Manual

Reference Publications:

460 System - FM 3-22.9 (FM 23-9); Exercises 1-4;
MGTS – Training Tasks 1-8 and Qualification tasks 9 & 10

Training Requirements Supported:

Primary Marksmanship Instruction, Remedial (on-site) marksmanship instruction during live fire.

ENGAGEMENT SKILLS TRAINER (EST) 2000

**Functional Description:**

Each EST 2000 subsystem consists of an Instructor Operator Station (IOS), modified weapons, floor boxes, high-resolution projector, speakers, camera-detection system, air compressor, screen, and associated cabling and hoses. Weapon modifications include an eye-safe laser; sensors to measure trigger pressure, cant and ammunition magazine/belt status (as well as status of on-off or selector switches); and a compressed air operating system. The RDU located in the IOS serves as the main signal interface between components. Modified rifles, pistols, machine-guns, and shotguns will be modified to work with the systems and rendered incapable of firing live ammunition. Shoot/Don't Shoot, Collective, and Marksmanship scenarios are pre-loaded onto each I/O station that will be delivered with each subsystem.

Purpose of Trainer:

The Engagement Skills Trainer (EST) is used as a unit and institutional, indoor, multipurpose, multilane, small arms, crew served and individual antitank training simulator. The EST is an industry proven, commercially available, computer operated simulator. The EST provides audio and visual presentations and feedback during training scenario exercises simulating the operation of a variety of small arms weapons. The EST simulator utilizes visual display systems, audio system(s), aiming detection system(s), and pseudo or modified real weapons with weapon power source interfaced by computer to provide Marksmanship, Shoot/Don't Shoot decision training, and Unit Collective Squad Level training scenarios. These trainers safely replicate weapon training events which lead to live fire individual and weapon crew qualification and that contribute to increased weapon, crew, fire team, and squad combat effectiveness training in Army defined scenarios. The EST is used primarily to:

- a. Train and evaluate individual marksmanship training for initial entry soldiers at the Army Training Centers.
- b. Provide active and Reserve Component unit sustainment training in preparation for individual and crew small arms live fire weapons' qualification.
- c. Provide Active and Reserve Component units a capability to train in Shoot/Don't Shoot situations currently not resourced.
- d. Provide unit collective gunnery and tactical training for static dismounted Infantry, Scout, Engineer, Military Police Squads, and Combat Support/Combat Service Support (CS/CSS) elements.

DVC 07-129

Physical Information:

The EST 2000 components are of different sizes and weight. All components are protected during transit by transit cases.

Facility size limit for the EST 2000:

<u>5 Lane</u>	<u>10 Lane</u>	<u>15 Lane</u>
35.0' length	35.0' length	35.0' length
17.5' width	35.0' width	52.5' width
8.0' height	8.0' height	8.0' height

Equipment Required, Not Supplied:

CCO	Close Combat Optics
MGO	Machine Gun Optics
PVS-4	Night Vision Scope
TVS-5	Night Vision Scope
M3	Tripod and pintle with Traverse and Elevation Mechanism Weapons interface mounting hardware.

Special Installation Requirements:

Facility A/C

Power Requirements:

Power requirements for each EST 2000 5 lane subsystem:

IOS

110vac, 60 Hz, 15amp circuit or, 220vac, 50 Hz, 7.5amp circuit
Outlet located within 20 ft. (6m) of IOS

Compressor

110vac, 60 Hz, 20amp circuit or, 220vac, 50 Hz, 10 amp circuit
Outlet located within 8 ft. (2.5m)

Training Category/Level Utilized:

Small arms/Level 3

Training Requirements Supported:

Small arms

Applicable Publications:

- Engagement Skills Trainer (EST) Operator's Manual
- TM 07-6920-704
- Engagement Skills Trainer (EST) System Maintenance Manual (SMM) - SMM 07-6920-704
- Engagement Skills Trainer (EST) COTS Manuals (As Required) - TD 07-6920-704

Reference Publications:

N/A

JAVELIN FIELD TACTICAL TRAINER (FTT) (INSTRUCTOR STATION)



Functional Description:

The Instructor Station consists of a VCR contained in a hand held unit and is used to monitor, record on 8mm videotape, and play back a training session. The hand held unit provides environmental protection for the VCR. The Instructor Station also has a backpack for field use.

Purpose of Trainer:

The FTT Instructor station (IS) when used in conjunction with the FTT Student Station can be used to monitor gunner performance. The visual display presented on the CLU display, as well as a simulation of the CLU status symbols, is presented to the instructor on the IS VCR. Displays presented on the IS monitor may be recorded, on videotape by the IS VCR. Playback of the training exercises can be accomplished on the IS monitor or any compatible VCR and monitor.

Physical Information:

The Instructor Station in container is 25.06 in. long, 15.19 in. high, 18.38 in. wide, and weighs 35.56 pounds.

Equipment Required, Not Supplied:

Cassette (type P6-120NTSC recommended), Javelin Command Launch Unit (CLU), and a Field Tactical Trainer-Student Station.

Special Installation Requirements:

None

DVC 07-128
NSN 6920-01-391-9210

Power Requirements:

Instructor Station operates on a 12vdc FNC Rechargeable Battery. The battery can be charged with charger contained in the FTT Student Station. Battery charger operates on: US 110vac, 60 HZ, 9A or European 220vac, 50 HZ, 9A.

Training Category/Level Utilized:

Infantry/level 3

Training Requirements Supported:

Javelin Gunner

Applicable Publications:

9-6920-688-10

Reference Publications:

N/A

Source and Method of Obtaining:

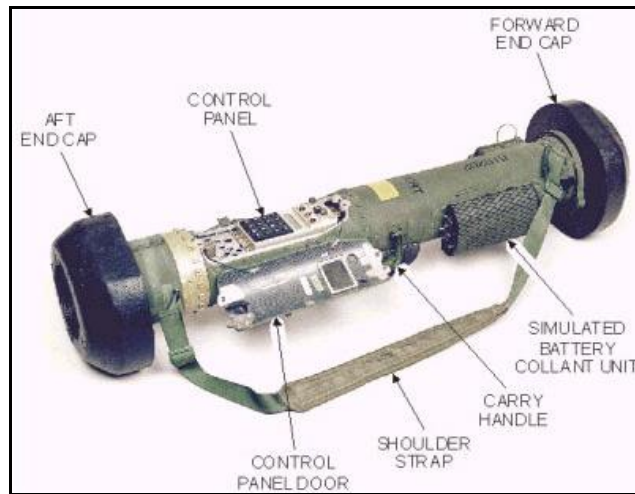
Initial fielding is being accomplished by the Close Combat Missile Systems Project Office, Redstone Arsenal, AL 35898. Requests for replacement/repair can be made by Telephone 910-860-3554, or FAX 910-860-2701.

Logistic Responsible Command, Service, or Agency:

Close Combat Missile Systems Project Office, Redstone Arsenal, AL 35898 is currently developing, fielding, and maintaining the system.

DVC 07-127
NSN 6920-01-391-9209

JAVELIN FIELD TACTICAL TRAINER (FTT) (STUDENT STATION)



Functional Description:

The Student Station is used for situational exercise (STX) or field training exercises. The FTT student station combines the Command Launch Unit (not supplied) with a simulated round and incorporates a Multiple Integrated Laser Engagement System (MILES) laser transmitter to allow simulated Javelin engagements during training exercises. The student station comes with a battery and charger.

Purpose of Trainer:

The FTT Student Station (SS) provides visual, aural, and physical cues associated with the Javelin Missile when engaging targets. Visual cues provided by the FTT include Seeker imagery with the appropriate track gates and crosshairs. Aural cues include a simulation of launch signature effects of the Javelin Missile. Weight of the SR, when connected to the CLU, provide the simulation of the Javelin Missile.

Physical Information:

The Student Station in container is 51.75 in. long, 24.38 in. high, 27.75 in. wide, and weighs 153.19 pounds.

Equipment Required, Not Supplied:

Javelin Command Launch Unit.

Special Installation Requirements:

None

Power Requirements:

Student Station operates on a 12 VDC FNC Rechargeable Battery. The battery can be charged with charger contained in the FTT Student Station. Battery charger operates on US 110vac, 60 HZ, 9A or European 220vac, 50 HZ, 9A.

DVC 07-127
NSN 6920-01-391-9209

Training Category/Level Utilized:

Infantry/level 3

Training Requirements Supported:

Javelin Gunner

Applicable Publications:

9-6920-688-10

Reference Publications:

N/A

Source and Method of Obtaining:

Initial fielding being accomplished by the Close Combat Missile Systems Project Office, Redstone Arsenal, AL 35898. Requests for replacement/repair can be made by Telephone 910-860-3554, or FAX 910-860-2701.

Logistic Responsible Command, Service, or Agency:

Close Combat Missile Systems Project Office, Redstone Arsenal, Al 35898 is currently developing, fielding, and maintaining the system.

JAVELIN BASIC SKILLS TRAINER



Functional Description:

The Student Station consists of a Missile Simulation Round (MSR) which provides a three-dimensional simulation of the Javelin.

The Instructor Station centers on a desktop PC that provides means to install or upgrade software, create and save gunner training records, and monitor gunner performance during an exercise. The Instructor Station provides all power, video, and sound signals to the Student Station from a single point of connection. It also is equipped with a surge suppressor for protection from power fluctuations.

Purpose of Trainer:

The BST is a three-dimensional training device used to train students and qualify gunners on the Javelin weapon system. The BST is a self-contained, computer-based, indoor training computer (PC) that is equipped with special hardware and software. The major components of the BST are the Student Station and the Instructor Station.

Physical Information:

The Student Station in container is 51.5 in. long, 25 in. high, 19.7 in. wide, and weighs 129 pounds. The Instructor Station in the container is 51.5 in. long, 25 in. high, 19.7 in. wide, and weighs 120 pounds.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

US 110vac, 60 HZ, 9A

European 220vac, 50 HZ, 9A

Training Category/Level Utilized:

Infantry/Level 3

DVC 07-126
NSN 6920-01-466-5161

Training Requirements Supported:

Javelin Gunner

Applicable Publications:

9-6920-666-10

Reference Publications:

N/A

Source and Method of Obtaining:

Initial fielding is being accomplished by the Close Combat Missile Systems Project Office, Redstone Arsenal, Al 35898. Requests for replacement/repair can be made by Telephone 910-860-3554, or FAX 910-860-2701.

Logistic Responsible Command, Service, or Agency:

Close Combat Missile Systems Project Office, Redstone Arsenal, Al. 35898 is currently developing, fielding, and maintaining the system.

DVC 07-68
NSN 6920-01-207-2684

M287 PRACTICE LAUNCHER FOR AT4 ANTI-TANK WEAPON



Functional Description:

M287 Practice Launcher is a right-shoulder fired trainer that is similar to the AT4 tactical weapon. It consists of a tube, sling, pop-up M16-type peep/post sight, transport safety, safety cocking lever, firing button, instruction decals, and bolt. A 9mm machine gun barrel is located inside the tube. Firing is accomplished by removing the bolt, placing the 9mm tracer bullet inside the bolt, inserting the bolt, removing the transport safety pin, placing the weapon on the right shoulder, releasing front and rear sights, cocking, depressing the safety, aiming and pressing the firing button. Maximum effective range is 300 meters.

Purpose of Trainer:

DVC 07-68 simulates operation and firing of the AT4 Tactical Anti-Tank Weapon. It allows the student to fire a 9mm tracer bullet at stationary and moving armor targets. The bullet has the same trajectory as the 84mm rocket that is fired by the AT4 weapon.

Physical Information:

40" L; 15 lb

Shipping Configuration: 5 each per wooden box (115 lb), 4 boxes per pallet (530 lb)

Equipment Required, Not Supplied:

14 Spare Parts

Small Arms Repairman's Kit

6mm hex wrench; 3mm hex wrench

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Anti-Armor/level 3

DVC 07-68
NSN 6920-01-207-2684

Training Requirements Supported:

MOSC Any
FC 23-25

Applicable Publications:

TM 9-6920-886-14&P

Reference Publications:

None

Source and Method of Obtaining:

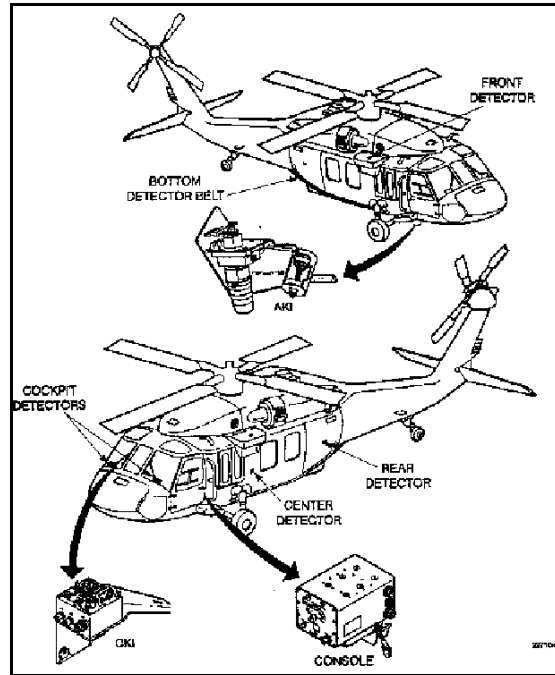
Available through local TSC

Logistic Responsible Command, Service, or Agency:

AMCOM

DVC 07-65/11
NSN 1270-01-254-4839

**SIMULATOR SYSTEM, FIRING, LASER:
FOR UH-60A BLACK HAWK HELICOPTER**



Functional Description:

DVC 07-65/11 is a passive receptor MILES system for the UH-60A Black Hawk which allows the aircraft to be “killed”. It is configured using common system components with the exception of minor changes required to outfit the system on the helicopter.

Purpose of Trainer:

The AGES II/CTS-IS is the Army’s Multiple Integrated Laser Engagement (MILES) training system for helicopters, putting aviation in the force-on-force fight. The AGES II/CTS-IS system consists of four Tactical Engagement Simulators (TES). Three of these TES’s are currently installed on the AH-64 Apache (DVC 07-65/13), CH-47D Chinook (DVC 07-65/10) and the UH-60A Black Hawk (DVC 07-65/11). The fourth system is the Hellfire Ground Support Simulator (DVC 07-65/8). The AGES II/CTS-IS permits realistic combat training, using eye safe laser Transmitters that “fire” laser beams instead of live ammunition. These beams are encoded signals which simulate a Variety of weapon systems. Capabilities include range, accuracy and destructive capability. AGES II simulates weapons systems including the Area Weapon System (AWS), Laser Range Finder/ Designator (LRF/D) and the Point Target Weapon System (PTWS). Laser detection systems are mounted to sense opposing fire and determine whether a near-miss, hit but not killed or kill message has been received. The system activates audio and visual cues indicating the presence and effect of opposing fire.

Physical Information:

47.5" L x 40.5" W x 15.88" H; 90.2 lbs

DVC 07-65/11
NSN 1270-01-254-4839

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

28vdc @ less than 5 A

Training Category/Level Utilized:

Aviation/Level 3

Training Requirements Supported:

ARTEPs Supported

7-15 17-55 71-2

MOSC 11B, 19D, 19E, 19Z

SM tasks

All tactical tasks for skill levels 1 through 5

Applicable Publications:

TM 9-1270-227-10

TM 9-1270-227-10-HR

SMM 9-1270-227-24&P

Reference Publications:

TM 1-1520-238-10

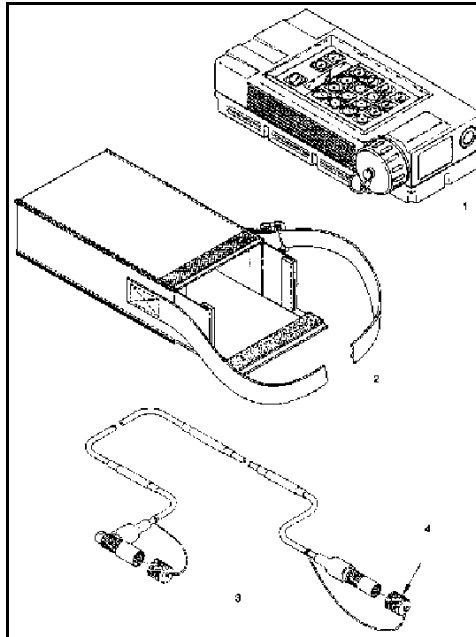
Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

CONTROLLER DEVICE, SIMULATOR SUBSYSTEM, FIRING, LASER



Functional Description:

The Controller Device (CD) is part of the AGES II Simulator System and provides the Observer Controller monitoring capability during training exercises using MILES AGES II equipment. The CD has the capability to set ammunition loads, “kill” or “resurrect” MILES equipped aircraft, and download exercise data from the aircraft console. It operates on a standard 9vdc battery and is sized and configured to permit it to be physically carried for extended periods of time. It can also transmit optically to a range of about five meters.

Purpose of Trainer:

The AGES II/CTS-IS is the Army’s Multiple Integrated Laser Engagement (MILES) training system for helicopters, putting aviation in the force-on-force fight. The AGES II/CTS-IS system consists of four Tactical Engagement Simulators (TES). Three of these TES’s are currently installed on the AH-64 Apache (DVC 07-65/13), CH-47D Chinook (DVC 07-65/10) and the UH-60A Black Hawk (DVC 07-65/11). The fourth system is the Hellfire Ground Support Simulator (DVC 07-65/8). The AGES II/CTC-IS permits realistic combat training, using eye safe laser Transmitters that “fire” laser beams instead of live ammunition. These beams are encoded signals which simulate a Variety of weapon systems. Capabilities include range, accuracy and destructive capability. AGES II simulates weapons systems including the Area Weapon System (AWS), Laser Range Finder/ Designator (LRF/D) and the Point Target Weapon System (PTWS). Laser detection systems are mounted to sense opposing fire and determine whether a near-miss, hit but not killed or kill message has been received. The system activates audio and visual cues indicating the presence and effect of opposing fire.

DVC 07-65/9
NSN 6940-01-261-9480

Physical Information:

8.84" L x 4.1" W x 2.25" D; 2 lbs 9 oz.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

9vdc (BA3090/U), Life 100 hrs (constant use)

Training Category/Level Utilized:

Aviation/Level 3

Training Requirements Supported:

ARTEPs supported

7-15 17-55 71-2

MOSC 11B, 19D, 19E, 19Z

SM tasks

All tactical tasks for skill levels 1 through 5

Applicable Publications:

TM 9-1270-230-10

TM 9-1270-230-10-HR

SMM 9-1270-230-24&P

SMM 9-1270-232-34&P

Reference Publications:

TM 1-1520-238-10

Source and Method of Obtaining:

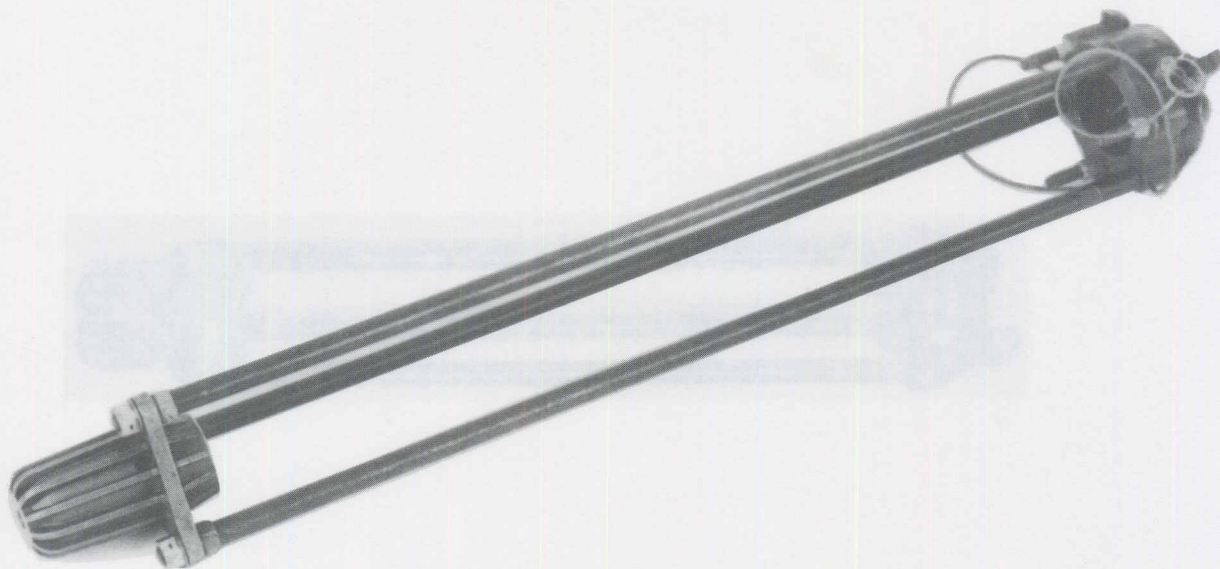
Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

**FIRING ATTACHMENT, BLANK AMMUNITION:
M2 MACHINE GUN**

**DVC 07-59
M19**



TRAINING CATEGORY/LEVEL UTILIZED:

Combat ARMS/Level 3

SOURCE AND METHOD OF OBTAINING:

Available at local TSC or
DISCOM

PURPOSE OF TRAINER:

The device permits firing of
linked blank .50 caliber
ammunition with the M2 machine
gun.

PHYSICAL INFORMATION:

Length: 33"; Diameter: 5"

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**

M2 Machine Gun; M1A1 Blank
Ammunition

**SPECIAL INSTALLATION
REQUIREMENTS:**

None

POWER REQUIREMENTS:

None

PUBLICATIONS:

TM 9-6920-434-12 & P

CONVERSION KIT, 5.56 MM (RIMFIRE)

DVC 07-55
M261



TRAINING CATEGORY/LEVEL UTILIZED:
Infantry/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
.22 caliber rimfire
ammunition

SOURCE AND METHOD OF OBTAINING:
Available at Local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
The Conversion Kit (CK) provides a
method to use .22 caliber, LR,
rimfire ammunition in the M16
16A1 Rifle for individual training
purposes.

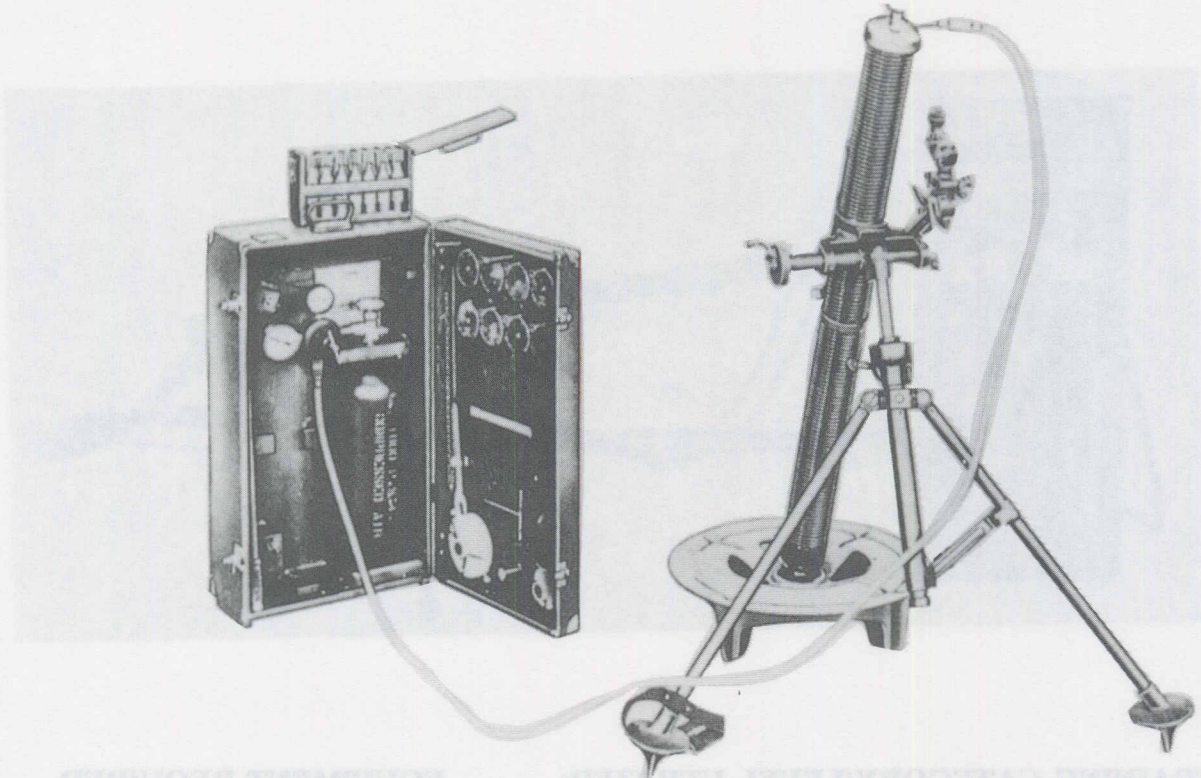
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
Bolt adapter assembly: 8.75"; 1 lb.
Magazine insert 3"; 4 oz.

PUBLICATIONS:
FM 23-9
FM 38-750
TM 9-1005-249-Series

TRAINER, MORTAR, PNEUMATIC

DVC 07-13A
M32



DVC NO. 07-13

TRAINING CATEGORY/LEVEL UTILIZED:

Infantry/Level 3

SOURCE AND METHOD OF OBTAINING:

Available at local TSC

PURPOSE OF TRAINER:

For use in the training of 4.2-inch, 60mm and 81mm mortar crew.

PHYSICAL INFORMATION:

Trainer M32 or M32A1 complete: 30" x 17"; 61 lbs.
Simulator gun assembly: 47 lbs.
Cabinet group: 183 lbs.

EQUIPMENT REQUIRED, NOT SUPPLIED:

Ammunition: cartridge, blank, .22 caliber 60mm, 81mm, or 4.2-inch mortar.

SPECIAL INSTALLATION REQUIREMENTS:

None

POWER REQUIREMENTS:

None

PUBLICATIONS:

TM 9-6920-212 Series

MEDICAL

MEDICAL



CRITICAL AIRWAY MANAGEMENT TRAINER 060

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

DVC 08-51

RESCUE RANDY TASK TRAINER

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

DVC 08-50

EMERGENCY CARE SIMULATOR ESC-100

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

DVC 08-37
NSN 6910-01-275-4833

**CONVULSANT ANTIDOTE FOR NERVE AGENT
TRAINING DEVICE (CANATD)**



Functional Description:

DVC 08-37 functions in the same manner as the CANA autoinjector. It has the same basic appearance as the actual autoinjector, with flanges on the sides and a safety cap to prevent activation. It has a recocking capability and can be operated by individuals in chemical and environmental protective clothing and under conditions of low visibility. Color coding for the training device is blue with white labels and black lettering. After the safety cap is removed and 2-8 pounds of axial pressure is applied, a 3-4 mm plastic tip will protrude, demonstrating activation. The training device does not contain the drug product or needle.

Purpose of Trainer:

To aid in the training of individuals for the proper administration of Convulsant Antidote for Nerve Agent (CANA) without the use of the actual injectors.

Physical Information:

6.3" L x 1" diameter

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Medical/Level 3

Training Requirements Supported:

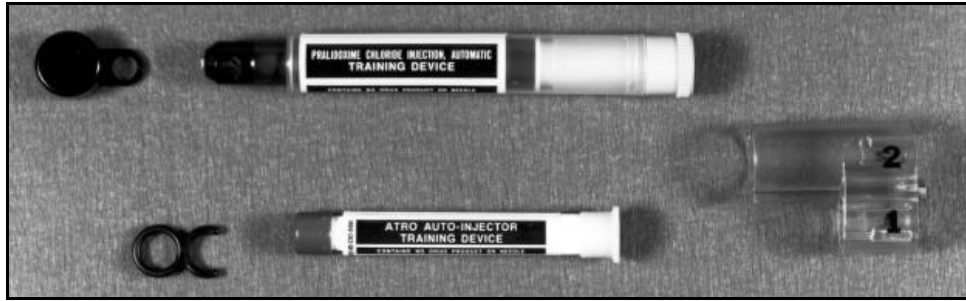
All MOSCs and Skill Levels

Applicable Publications:

None

DVC 08-36
NSN 6910-01-194-7251

TRAINING KIT, NERVE AGENT ANTIDOTE, MARK I, TYPE 1



Functional Description:

The training device has the same basic appearance as the real autoinjector except for color-coding and description of contents. The training device functions in the same manner as the actual injectors except that the device does not contain drug products or needle. Color coding is light blue with white on black labels. The device functions with an audible click and ejects a 0.25 inch plastic flat prod (needle) when activated with an applied pressure of 1.5 to 9 pounds.

Purpose of Trainer:

This nerve agent antidote autoinjector training kit is for training individuals in the proper administration of Antidote for Chemical Nerve Agent poisoning without using real injectors.

Physical Information:

Each auto-injector incorporates a removable safety cap. The assembled kit comes packaged in a black Styrofoam case. Recocking devices.

Equipment Required, Not Supplied:

Replacement items can be ordered through normal channels:

- (1) Training Device, 2 PAM Chloride Injections, NSN 6910-01-194-2227
- (2) Training Device, Atropine Injection, NSN 6910-01-194-0378
- (3) Clip, MARK I, NSN 6530-01141-7458
- (4) Pouch, MARK I, NSN 6530-01-141-7457

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

General/Level 3

Training Requirements Supported:

MOSC All, Skill Level 1

Applicable Publications:

DVC 08-36
NSN 6910-01-194-7251

None

Reference Publications:

FM 21-2-SMCT

STP 21-1-SMCT

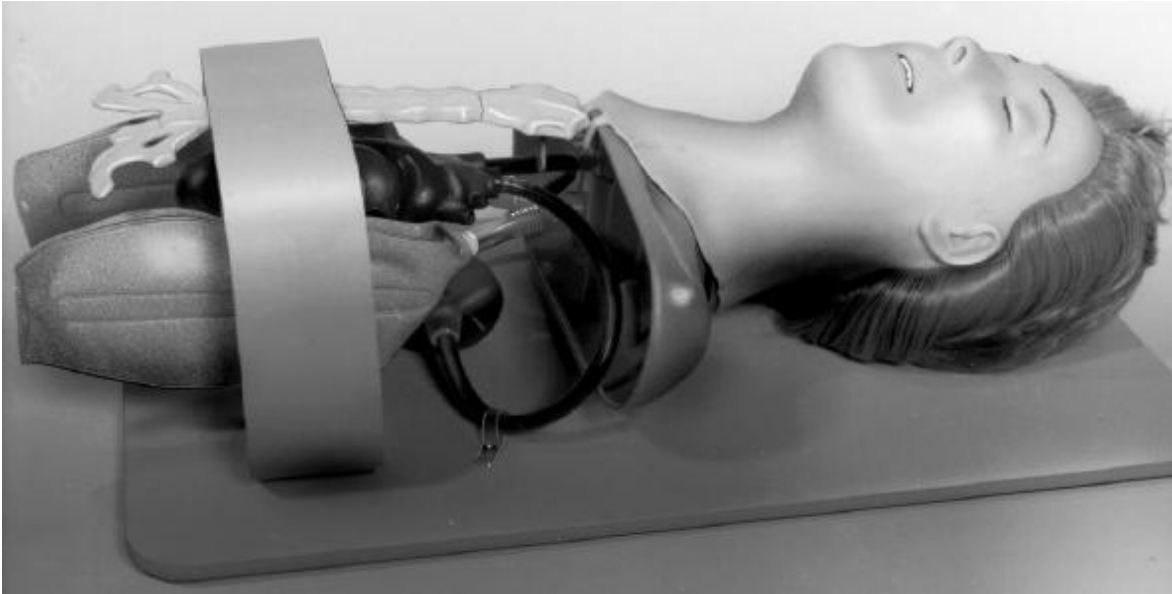
Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

USAMMA

MANIKIN, HEAD AND TORSO, CPR TRAINING

**Training Category/Level Utilized:**

Medical/Level 3

Logistic Responsible Command, Service, or Agency:

USAMMA

Source and Method of Obtaining:

Available through local TSC.

Purpose of Trainer:

To provide a realistic human blood circulation system to be used to demonstrate and train both artificial ventilation and external cardiac compressions. The device is portable and can be used for indoor as well as out-of-doors demonstrations. It can be used in medical classes, also for basic first aid instructions. The specific training requirements supported are shown following the descriptive data.

Functional Description:

The device is an adult model, natural size Torso Manikin. The head section is made of rubber base material while the blood circulation system is made of a plastic composition. When the device is used in the artificial ventilation (mouth-to-mouth resuscitation) mode, the practicing intermittent positive pressure inflates and deflates the lungs. When used in the external cardiac compression mode, the device shows the heart being compressed between the sternum and the spine and the exchange of blood in its circulation tubes. After basic instructions, the device is self-taught. Accessories furnished in a sterilization kit are: stand for head, tubing with nipple, syringe, sterilizing solution, measuring glass, and funnel.

Physical Information:

Device: 24" x 15" x 8"; 35 lb

Carrying Case: 26" x 17" x 10"

Equipment Required, Not Supplied:

Letter "Recommendations for Decontaminating Manikins Used in CPR Training, 1983 Update."

Special Installation Requirements:

None

Power Requirements:

None

Applicable Publications:

Commercial Manual

Reference Publications:

FM 8-230

FM 21-11

STP 21-1-SMCT

Training Requirements Supported:

Tasks:

081-831-0048

081-831-0046

081-831-1042

MOSC's All Skill Level 1

Buddy-Aid Life Saving

All 8-Series ARTEP's and other units with medical personnel.

DVC 08-15
NSN 6910-00-516-5436

RESUSCITATION TRAINING MANIKIN



Functional Description:

The device is an adult male, noninflatable body with heart-lung resuscitation, visual indicating device, air vent, broken femur, dilated pupil, and penetrating arm wound simulation. This torso is separable at the waist and has a removable head. This training device also comes with plastic face mask pieces, outer garments, and two carrying bags. This manikin will simulate breastbone reaction and carotid pulse pressure of an unconscious person.

Purpose of Trainer:

The device provides realistic practice in mouth-to-mouth and/or cardiopulmonary resuscitation, bleeding control, and the application of leg splints or traction. This training device supports training in first aid and medical Soldier's Manual tasks in all MOSC's. The specific training requirements supported are shown following the descriptive data.

Physical Information:

Life size, non-inflatable body with removable head.

Equipment Required, Not Supplied:

Letter "Recommendations for Decontaminating Manikins Used in CPR Training, 1983 Update."
BDU's/Fatigues.

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Medical/Level 3

Training Requirements Supported:

Tasks:

081-831-1000

081-831-0047

All 8-Series ARTEPs

Buddy-Aid Life Saving Skills

DVC 08-15
NSN 6910-00-516-5436

Reference Publications:

FM 8-230
FM 21-2
STP 8-42C14-SMTG STP 8-9IH14-SMTG
STP 8-42D14-SMTG STP 8-9IJ14-SMTG
STP 8-42E15-SMTG STP 8-9IL14-SMTG
STP 8-71G15-SMTG STP 8-9IQ15-SMTG
STP 8-76J15-SMTG STP 8-9IR15-SMTG
STP 8-9IA12-SMTG STP 8-9IS15-SMTG
STP 8-9IB25-SMTG STP 8-9IT14-SMTG
STP 8-9IC25-SMTG STP 8-9IU14-SMTG

Reference Publications:

STP 8-9ID15-SMTG STP 8-9IV14-SMTG
STP 8-9IE15-SMTG STP 8-9IY14-SMTG
STP 8-9IF15-SMTG STP 8-92B15-SMTG
STP 8-9IG14-SMTG STP 8-9IP15-SMTG

Applicable Publications:

Commercial Manual

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

USAMMA

DVC 08-14
NSN 6910-01-300-6541

CASUALTY SIMULATION KIT



Functional Description:

The Casualty Simulation Kit consists of 100 stick-on wound moulages and a variety of makeup material to be applied, in accordance with the accompanying instructions, to selected persons who act as casualties during simulation of a battle or disaster.

After application of the selected wound moulages, makeup is applied to represent different types of bleeding (depending on the type or severity of the wound), frothing at the mouth, loss of stomach content, shock, perspiration, bruises, contusion, and other effects.

The Instructors Guide for the Casualty Simulation Kit provides many full-color illustrations which amplify the text and greatly assist the person applying the moulages and makeup. This Guide lists all makeup and other materials required, along with commercial source of national stock number.

Purpose of Trainer:

The device provides materials for realistically simulating many types of wounds incurred in battle or disaster. The materials are used in training military and civilian groups in first aid to casualties and to condition these groups not to be shocked at the appearance of the casualties. The specific training requirements supported are shown following the descriptive data.

Physical Information:

Kit: 15" x 9" x 14"; 25 lb.

Equipment Required, Not Supplied:

As listed in Applicable Publications.

Special Installation Requirements:

None

Power Requirements:

None

DVC 08-14
NSN 6910-01-300-6541

Training Category/Level Utilized:

Medical/Level 3

Training Requirements Supported:

AMEDD ARTEP with patient care mission

MOSC 91 CMF

SM 081-XXX Tasks

1002 1478 2101 2102
1467

Combat Life Saver Program (All levels)

Applicable Publications:

NAVEXOS P-2709, Instructors Guide for Casualty Simulation Kit, device 11E10

Reference Publications:

FM 8-23

Source and Method of Obtaining:

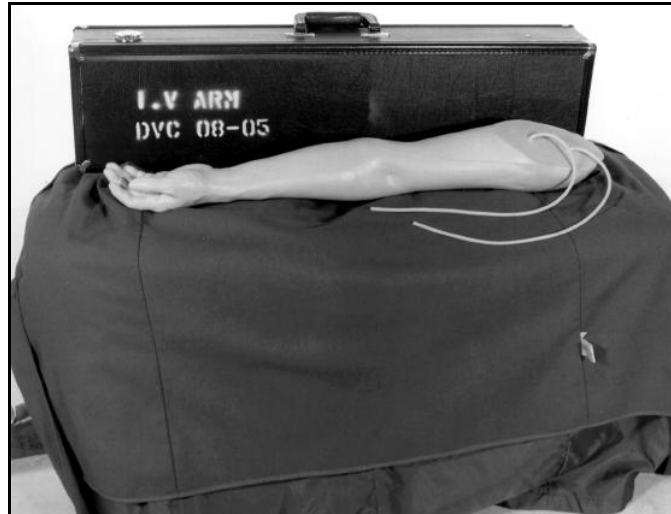
Available through local TSC

Logistic Responsible Command, Service, or Agency:

USAMMA

DVC 08-05A
NSN 6910-01-315-7960

INTRAVENOUS THERAPY TRAINER



Functional Description:

The device consists of a life-size plastic arm and hand with two simulated vein sites in the antecubital area and in the dorsum part of the hand for injection and withdraws of fluids. It has a normal range of wrist and elbow motion to simulate a true right or left arm to allow for application of tourniquets and arm boards. The device is provided with a carrying case.

Purpose of Trainer:

To provide realistic practice in performing intravenous injections in the antecubital area and dorsum part of the hand.

Physical Information:

Adult size arm and hand

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

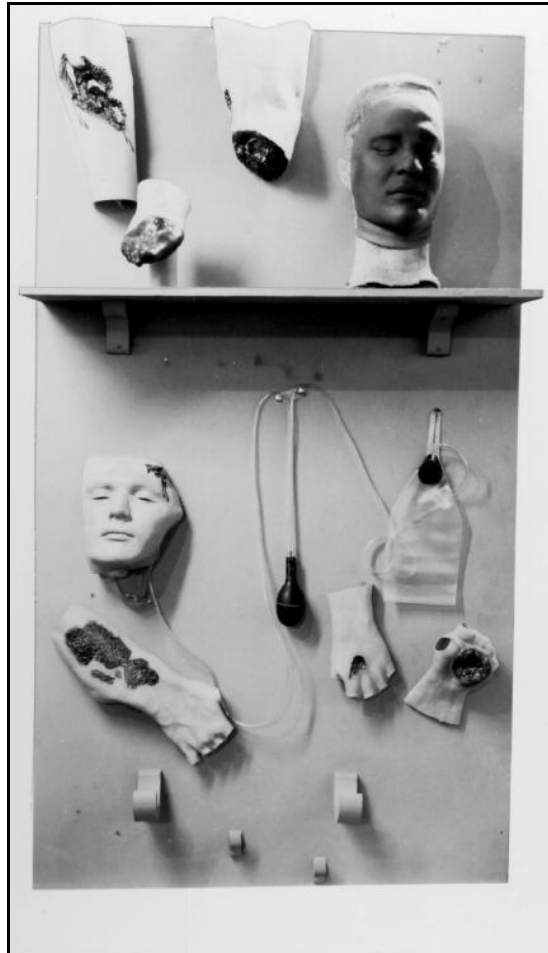
Training Category/Level Utilized:

Medical/Level 3

Training Requirements Supported:

Basic Officer, Medical Corps Warrant Officer (MOS 011A)
Enlisted Personnel Courses in MOSC 91B, 91C, 91D 91V, 92B and 18D

WAR-WOUND MOULAGE SET



Functional Description:

The device consists of a set of vinyl-plastiol models or moulages, each of which closely simulates an actual wound to the human body. Each moulage is life-sized, with bone structure and flesh shown in relief on the surface. It is finished in colors simulating real human skin, bone, and flesh.

The moulage may be strapped onto a soldier acting as a casualty or as a recipient of treatment during a FTX or lesson in first aid. During training, the subject wearing the moulage can manually operate a pump and reservoir which causes simulated blood to flow through veins and arteries built into the moulage. The flow may be either pulsating or steady.

In addition to the following life size moulages, the set comes with a pump and “blood” reservoir, and five packages of powder for making one gallon each simulated blood formula in a carrying case:

- a. Amputation of leg
- b. Compound fracture of femur
- c. Compound fracture of humerus
- d. Compound fracture of lower leg
- e. Gunshot wound of the hand (palm)

DVC 08-04
NSN 6910-00-540-6378

- f.* Laceration of the forehead (scalp)
- g.* Shrapnel wound of the abdominal wall with protruding intestines
- h.* Shrapnel wound of the lower jaw with partial loss of jaw

Functional Description:

- i.* Atomic burn of the back
- j.* Atomic burn of the chest
- k.* Atomic burn of the face
- l.* Atomic burn of the hand (palm, & dorsal area)
- m.* Face in shock
- n.* Frostbite of foot
- o.* Phosphorus burn of the hand
- p.* Second and third degree burns of the forearm
- q.* Trench foot
- r.* Hypodermic needle insertion technique moulage
- s.* Sucking wound of the chest.

Purpose of Trainer:

DVC 08-04 is an enhancement of DVC 08-14 Casualty Simulation Kit providing the means to train military personnel in first aid treatment of combat-type casualties and permits trainees to practice and develop first aid skills. Use of the device helps remove shock of first sight of a severe wound and develops skill in identifying and treating wounds.

Physical Information:

Life-size, 29 lb, 2.2 cu ft

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Medical/Level 3

Training Requirements Supported:

All MOSC's Self-Aid/Buddy-Aid Tasks

Applicable Publications:

AHS TTP 8-3 Pamphlet "How to Moulage"

Reference Publications:

FM 21-2

DVC 08-01
NSN 6920-00-779-4600

NURSING TECHNIQUE TRAINING DOLL



Functional Description:

The device is an adult size, plastic model with operable joints, genitals, urethral and rectal tubes, and internal tanks. It is particularly suited for the attachment of any of the various moulage kits that are designed to fit a human subject.

Purpose of Trainer:

The device is intended to be used by military medical personnel at all levels of medical training and evaluation of basic nursing care. It provides trainees realistic practice in nursing care techniques and is used in evaluation of techniques such as catheterization, bladder irrigation, colonic irrigation enemas, nasal and otic douching, and hypodermic injection. The specific training requirements supported are shown following the descriptive data.

Physical Information:

Life size

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Medical/Level 3

Training Requirements Supported:

All Soldiers' Manual tasks for 91CMF

Applicable Publications:

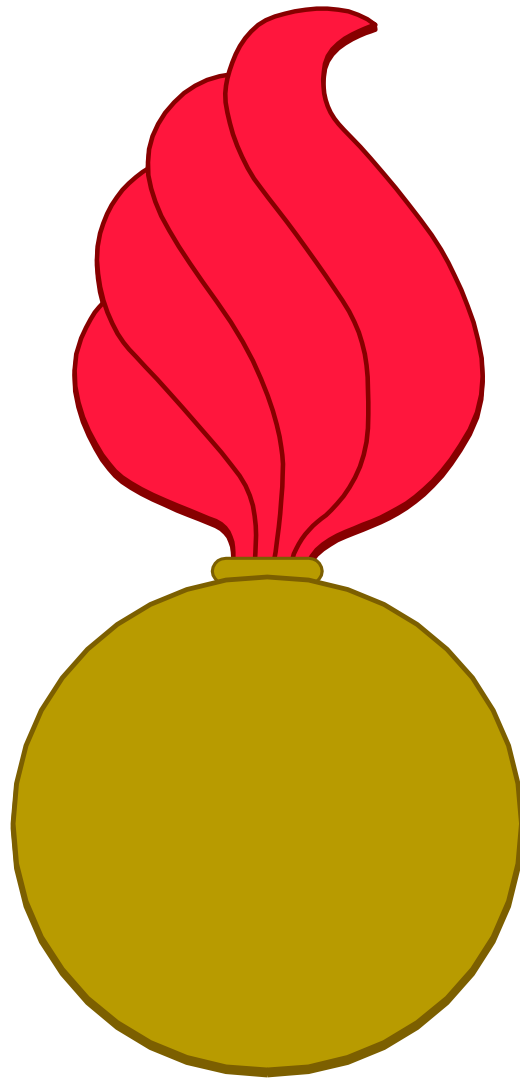
None

Reference Publications:

None

Source and Method of Obtaining:

ORDNANCE



IRAQI MINE KIT



Functional Description:

DVC-T 09-129, Mine Recognition Kit, is a kit that contains full scale replicas of Iraqi mines.

Purpose of Trainer:

This inert device is primarily used to teach and practice recognition, detection, removal and Render Safe Procedures in an EOD or UXO class.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

FM 9-55D1/2:

093-401-1106 093-401-1108 093-401-1181 093-401-1182
093-401-1221 093-401-1222 093-401-1224 093-401-1227
093-401-1228 093-401-1381 093-401-1385 093-401-2108
093-401-2141

FM 9-55D3:

093-401-3142 093-401-3221

FM 9-55D4:

093-401-4302

DVC-T 09-129

Training Requirements Supported:

FM 9-55D5:

093-401-5381

ARTEP 9-520:

3-111-1 thru 3-111-5

Applicable Publications:

Information not available

Reference Publications:

AR 75-15

Source and Method of Obtaining:

Items are issued to EOD units through their TSC, on an annual basis, in accordance with a BOI provided by the proponent.

Logistic Responsible Command, Service, or Agency:

ATSC

MINE RECOGNITION KIT (BOSNIA)



Functional Description:

DVC-T 09-128, Mine Recognition Kit, is a kit that contains full scale replicas of Bosnian mines.

Purpose of Trainer:

This inert device is primarily used to teach and practice recognition, detection, removal and Render Safe Procedures in an EOD or UXO class.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

FM 9-55D1/2:

093-401-1106 093-401-1108 093-401-1181 093-401-1182
093-401-1221 093-401-1222 093-401-1224 093-401-1227
093-401-1228 093-401-1381 093-401-1385 093-401-2108
093-401-2141

FM 9-55D3:

093-401-3142 093-401-3221

FM 9-55D4:

093-401-4302

DVC-T 09-128

Training Requirements Supported:

FM 9-55D5:

093-401-5381

ARTEP 9-520:

3-111-1 thru 3-111-5

FM 9-55D4:

093-401-4302

FM 9-55D5:

093-401-5381

ARTEP 9-520:

3-111-1 thru 3-111-5

Applicable Publications:

Information not available

Reference Publications:

AR 75-15

Source and Method of Obtaining:

Items are issued to EOD units through their TSC, on an annual basis, in accordance with a BOI provided by the proponent.

Logistic Responsible Command, Service, or Agency:

ATSC

PROJECTILE, OF-482, 130MM, HE/FRAG



Functional Description:

DVC-T 09-063/4, OF-482, is a full scale replica of a former USSR 130MM HE/Frag projectile.

Purpose of Trainer:

This inert device is primarily used to teach and practice recognition, detection, removal and Render Safe Procedures in an EOD or UXO class.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

FM 9-55D1/2:

093-401-1106 093-401-1108 093-401-1181 093-401-1182
093-401-1221 093-401-1222 093-401-1224 093-401-1227
093-401-1228 093-401-1381 093-401-1385 093-401-2108
093-401-2141

FM 9-55D3:

093-401-3142 093-401-3221

FM 9-55D4:

093-401-4302

Training Requirements Supported:

FM 9-55D5:

093-401-5381

ARTEP 9-520:

3-111-1 thru 3-111-5

Applicable Publications:

Information not available

Reference Publications:

AR 75-15

Source and Method of Obtaining:

Available through local TSC Items are issued to EOD units through their TSC, on an annual basis, in accordance with a Basis of Issue (BOI) provided by the proponent.

Logistic Responsible Command, Service, or Agency:

USATSC

MORTAR M56, 120MM, HE



Functional Description:

DVC-T 09-059/4, M56, is a full scale replica of a former Yugoslavian 120MM, HE mortar.

Purpose of Trainer:

This inert device is primarily used to teach and practice recognition, detection, removal and Render Safe Procedures in an EOD or UXO class.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

FM 9-55D1/2:

093-401-1106 093-401-1108 093-401-1181 093-401-1182
093-401-1221 093-401-1222 093-401-1224 093-401-1227
093-401-1228 093-401-1381 093-401-1385 093-401-2108
093-401-2141

FM 9-55D3:

093-401-3142 093-401-3221

FM 9-55D4:

093-401-4302

Training Requirements Supported:

FM 9-55D5:

093-401-5381

ARTEP 9-520:

3-111-1 thru 3-111-5

Applicable Publications:

Information not available

Reference Publications:

AR 75-15

Source and Method of Obtaining:

Available through local TSC Items are issued to EOD units through their TSC, on an annual basis, in accordance with a Basis of Issue (BOI) provided by the proponent.

Logistic Responsible Command, Service, or Agency:

ATSC

MORTAR, D-5, 120MM, SMOKE



Functional Description:

DVC-T 09-059/3, D-5, is a full scale replica of a former USSR 120MM, Smoke mortar.

Purpose of Trainer:

This inert device is primarily used to teach and practice recognition, detection, removal and Render Safe Procedures in an EOD or UXO class.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

FM 9-55D1/2:

093-401-1106 093-401-1108 093-401-1181 093-401-1182
093-401-1221 093-401-1222 093-401-1224 093-401-1227
093-401-1228 093-401-1381 093-401-1385 093-401-2108
093-401-2141

FM 9-55D3:

093-401-3142 093-401-3221

FM 9-55D4:

093-401-4302

Training Requirements Supported:

FM 9-55D5:

093-401-5381

ARTEP 9-520:

3-111-1 thru 3-111-5

Applicable Publications:

Information not available

Reference Publications:

AR 75-15

Source and Method of Obtaining:

Available through local TSC Items are issued to EOD units through their TSC, on an annual basis, in accordance with a Basis of Issue (BOI) provided by the proponent.

Logistic Responsible Command, Service, or Agency:

ATSC

MORTAR S-843, 120MM, ILLUM



Functional Description:

DVC-T 09-059/2, S-843, is a full scale replica of a former USSR 120MM, Illum mortar.

Purpose of Trainer:

This inert device is primarily used to teach and practice recognition, detection, removal and Render Safe Procedures in an EOD or UXO class.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

FM 9-55D1/2:

093-401-1106 093-401-1108 093-401-1181 093-401-1182

093-401-1221 093-401-1222 093-401-1224 093-401-1227

093-401-1228 093-401-1381 093-401-1385 093-401-2108

093-401-2141

FM 9-55D3:

093-401-3142 093-401-3221

FM 9-55D4:

093-401-4302

Training Requirements Supported:

FM 9-55D5:

093-401-5381

ARTEP 9-520:

3-111-1 thru 3-111-5

Applicable Publications:

Information not available

Reference Publications:

AR 75-15

Source and Method of Obtaining:

Available through local TSC Items are issued to EOD units through their TSC, on an annual basis, in accordance with a Basis of Issue (BOI) provided by the proponent.

Logistic Responsible Command, Service, or Agency:

ATSC

MORTAR, SIMM, NE, M66, 81 MM



Functional Description:

DVC-T 09-059/1, SIMMM, NE, M66, is a full scale replica of a former Yugoslavian 81MM mortar.

Purpose of Trainer:

This inert device is primarily used to teach and practice recognition, detection, removal and Render Safe Procedures in an EOD or UXO class.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

FM 9-55D1/2:

093-401-1106 093-401-1108 093-401-1181 093-401-1182
093-401-1221 093-401-1222 093-401-1224 093-401-1227
093-401-1228 093-401-1381 093-401-1385 093-401-2108
093-401-2141

FM 9-55D3:

093-401-3142 093-401-3221

FM 9-55D4:

093-401-4302

Training Requirements Supported:

FM 9-55D5:

093-401-5381

ARTEP 9-520:

3-111-1 thru 3-111-5

Applicable Publications:

Information not available

Reference Publications:

AR 75-15

Source and Method of Obtaining:

Available through local TSC Items are issued to EOD units through their TSC, on an annual basis, in accordance with a Basis of Issue (BOI) provided by the proponent.

Logistic Responsible Command, Service, or Agency:

ATSC

KIT, GRENADE IDENTIFICATION

FHTD 9-006



TRAINING CATEGORY/LEVEL UTILIZED:
Infantry/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

PURPOSE OF TRAINER:
For indoor/outdoor classroom
use as an instructor's aid.

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PHYSICAL INFORMATION:
Each kit contains a replica of each of
the following grenades:
Fragmentation, M68
CS-1, M25A2
Smoke, WP M34
Smoke, Red M18
Incendiary, TH-3 AN-M14A1
Smoke, HC AN-M8
Fragmentation, Delay M67
Fragmentation, Delay M33
Transit Case: 8" x 3 3/4" x 26 1/2"

POWER REQUIREMENTS:
None

PUBLICATIONS:
None

KIT, M203 GRENADE IDENTIFICATION

FHTD 9-007



TRAINING CATEGORY/LEVEL UTILIZED:
Infantry/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC
(limited quantity)

PURPOSE OF TRAINER:
For indoor/outdoor classroom use as
an instructor's aid.

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PHYSICAL INFORMATION:
Each kit contains a replica of each of
the following grenades:
(1) High-Explosive Dual Purpose (HEDP)
(2) High-Explosive (HE)
(3) Star Parachute
(4) White Star Cluster Round
(5) Ground Marker Round
(6) Practice Round
(7) Tactical CS Round

POWER REQUIREMENTS:
None

PUBLICATIONS:
TM 43-0001-28

QUARTER MASTER



GRAVES REGISTRATION KIT (GRREG)



Functional Description:

DVC-T 10-020, Graves Registration Kit, is a wooden box containing a human skeleton, a layout chart, a fingerprint kit, a set of teeth for training individuals to prepare dental charts, a graphic aid that shows materials used for filling teeth, a complete set of manuals, and a self-paced text on search and recovery operations.

Purpose of Trainer:

The GRREG is a hands-on exportable device used to train and evaluate personnel in graves registration operations and procedures. It teaches critical tasks in MOS 57F (Graves Registration Specialist) Skill Qualification Test, Soldiers Manuals and applicable ARTEPS.

Physical Information:

The contents of the kit are:

<u>ITEM</u>	<u>QUANTITY</u>
1. Carrying Case	1 each
2. Fingerprint Kit	
a. Case	1 each
b. Shovel Card Holder	1 each
c. Porelon Inker	1 each
3. Skeleton Carrying Case	1 each
4. Male Skeleton, Unassembled	1 each
5. Dental Models	2 sets
6. Dental Material Board	1 each
7. Skeleton Chart	1 each
8. Bone Measuring Device	1 each

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

AR 638-1

AR 638-30

AR 638-40

FM 10-57 F/TG

TC 10-57 Fl /2 (JB)

DD FORM 890AR 75-15

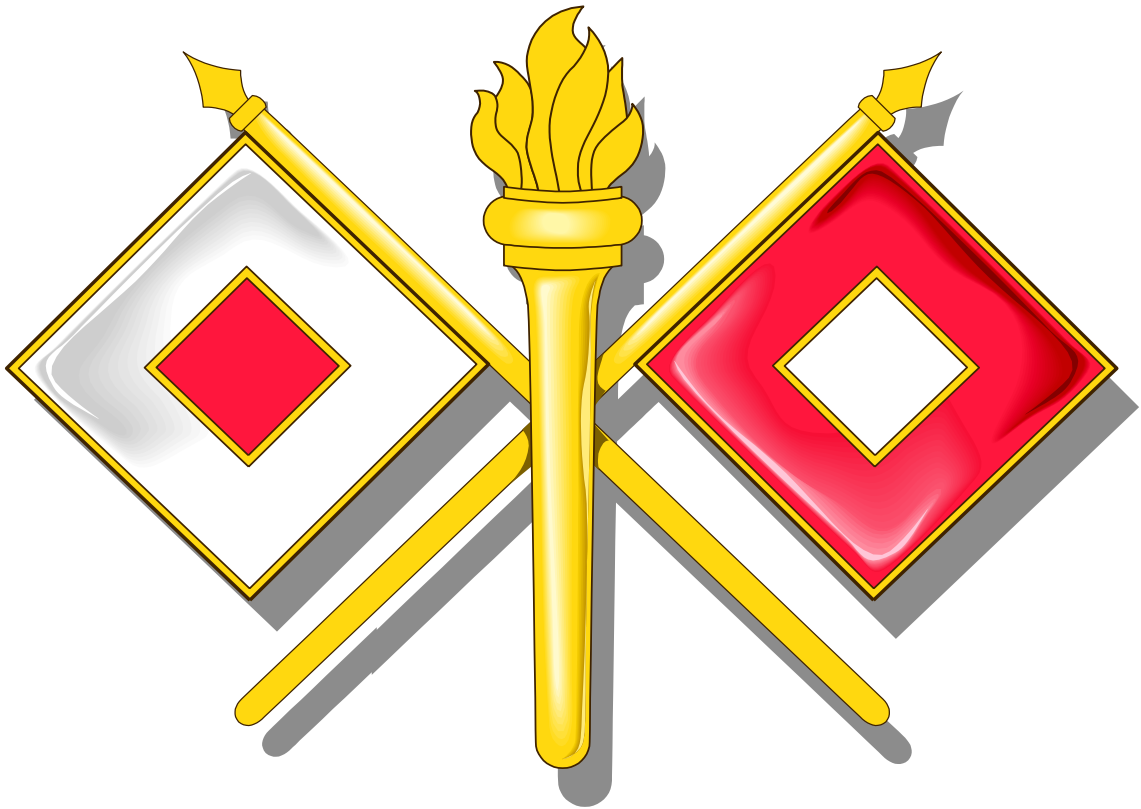
Source and Method of Obtaining:

Available through local TSC.

Logistic Responsible Command, Service, or Agency:

ATSC

SIGNAL



SINGGARS MOCKUP



Functional Description:

DVC-T 11-061, SINGGARS, is a 5:1 mockup of the SINGGARS Radio. The device is fabricated with the knobs and buttons of the RT 1523D SINGGARS Radio and is attached to a dolly for maneuverability around and between classrooms.

Purpose of Trainer:

This device is used in the 31U course to enable the instructor to demonstrate the switch positions of the radio while the students sit at their workstations with the actual radio.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

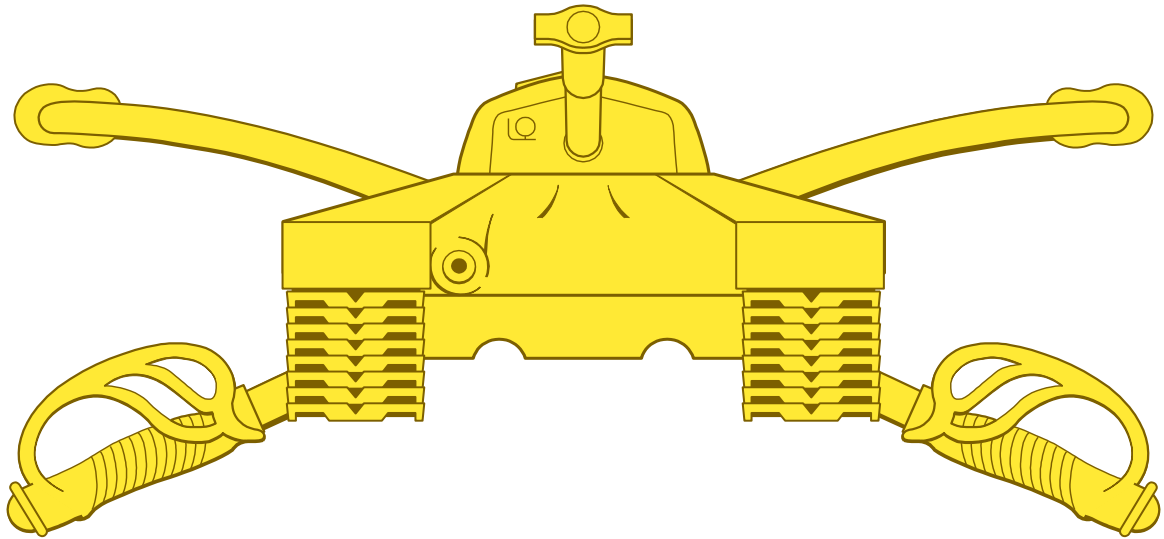
Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

ARMOR



120MM TRAINING ROUND, M829A/A2



Functional Description:

DVC-T 17-112, 120MM, M829A/A2, SABOT, Training Round, is an inert replica of the service round.

Purpose of Trainer:

The round will train the soldier in ammunition identification, handling and chambering of the service round in a manner to stress safety and to avoid damage to service projectiles.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

120MM TRAINING ROUND, M830, (HEAT-MP-T)



Functional Description:

DVC-T 17-111, 120MM, M830 HEAT Training Round, is an inert replica of the service round.

Purpose of Trainer:

The round will train the soldier in ammunition identification, handling and chambering of the service round in a manner to stress safety and to avoid damage to service projectiles.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

120MM TRAINING ROUND HEAT



Functional Description:

DVC-T 17-108, 120MM HEAT Training Round, is an inert replica of the service round.

Purpose of Trainer:

The round will train the soldier in ammunition identification, handling and chambering of the service round in a manner to stress safety and to avoid damage to service projectiles.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

120MM TRAINING ROUND APFSDS



Functional Description:

DVC-T 17-107, 120MM, APFSDS, Training Round, is an inert replica of the service round.

Purpose of Trainer:

The round will train the soldier in ammunition identification, handling and chambering of the service round in a manner to stress safety and to avoid damage to service projectiles.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

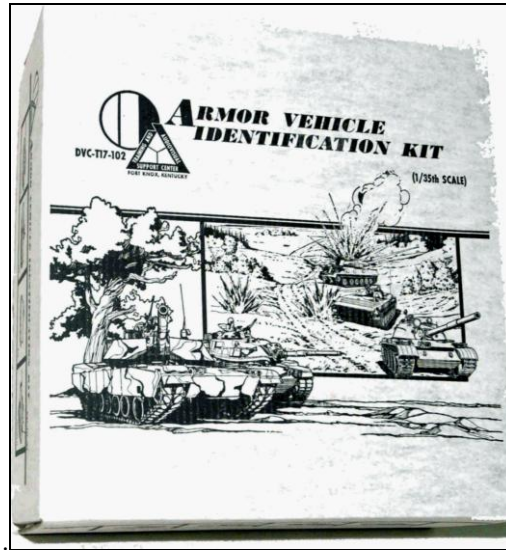
Power Requirements:

None

Training Category/Level Utilized:

Information not available

ARMOR VEHICLE MODELS (1/35th SCALE)



Functional Description:

DVC-T 17-102, **Armor Vehicle Identification Kit**, is a kit consisting of solid hard plastic, three-dimensional, 1/35th scale models of American and foreign nation armored vehicles. The set consists of 25 vehicles: M60A1, M113, M113A1, M551, M577, AMX-13, AMX-30, Leopard 1, Leopard 2, Centurion, Chieftain, T-10, T-34, T-54, T-55, T-62, T-62A, T-64, T-72, T-76, PT-76, BMP, BRDM, M1, and M2 Bradley.

Purpose of Trainer:

These models may be used for classroom or outdoor instruction in the recognition of armored vehicles.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

BOARD, TANK TIMING

FHTD 17-021



TRAINING CATEGORY/LEVEL UTILIZED:
Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used to time tank gunnery
qualification table

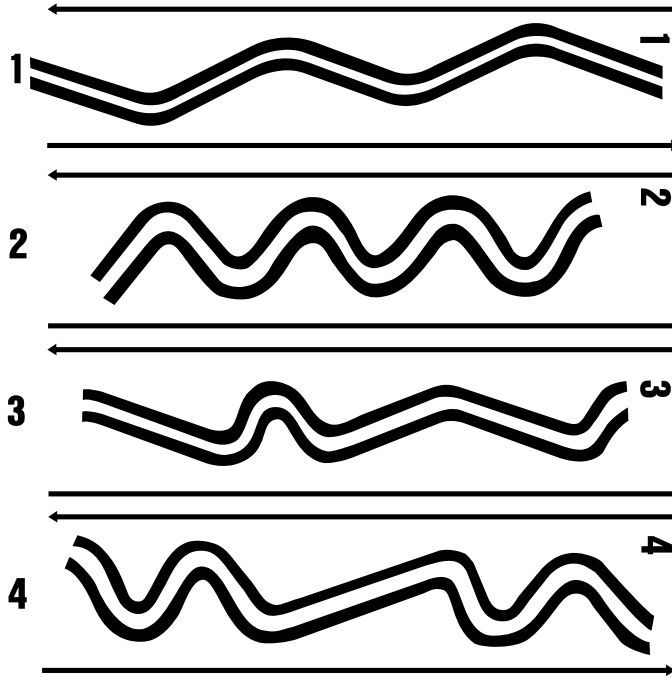
POWER REQUIREMENTS:
1.5 V DC Battery

PHYSICAL INFORMATION
A wooden case containing 8
stopwatches.
Case measures 14" x 10" x 2 1/4"

PUBLICATIONS:
None

**SNAKE BOARDS
(WITHOUT TEXT)**

**FHTD 17-004A WOOD
FHTD 17-004B PLASTIC**



TRAINING CATEGORY/LEVEL UTILIZED:
Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

PURPOSE OF TRAINER:
Used to train gunners on the gun
controls.

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

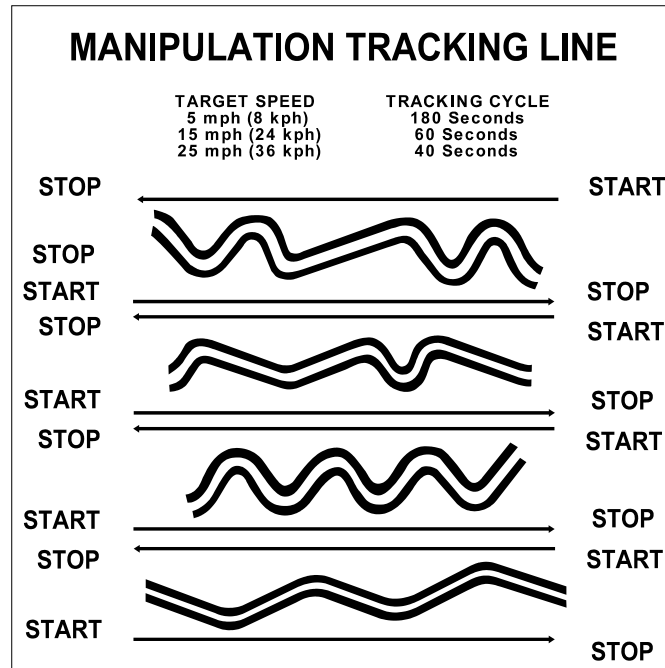
PHYSICAL INFORMATION:
Wood - 6' X 6' Frame covered
w/1/2" Plywood.
Plastic - 6' X 6' Wood frame
covered w/white plastic.

POWER REQUIREMENTS:
None

PUBLICATIONS:
None

SNAKE BOARDS (WITH TEXT)

FHTD 17-014A WOOD
FHTD 17-014B PLASTIC



TRAINING CATEGORY/LEVEL UTILIZED:
Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

PURPOSE OF TRAINER:
Used to train gunners on the gun
controls.

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

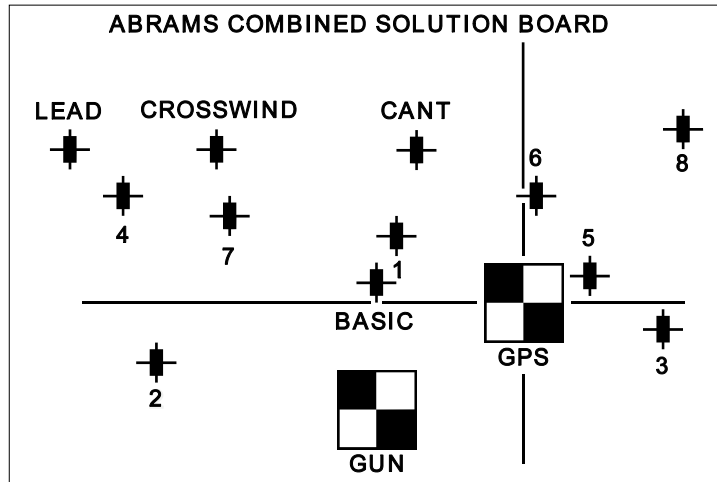
PHYSICAL INFORMATION:
Wood - 6' X 6' Frame covered
w/1/2" Plywood.
Plastic - 6' X 6' Wood frame
covered w/white plastic.

POWER REQUIREMENTS:
None

PUBLICATIONS:
None

ABRAMS COMBINED SOLUTION BOARD

FHTD 17-016A WOOD
FHTD 17-016B PLASTIC



TRAINING CATEGORY/LEVEL UTILIZED:
Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

PURPOSE OF TRAINER:

Used to test the ability of the CEU to compensate for the values received from the fire control system components and determine a ballistic solution for a given round. The ballistic solution check verifies that the fire control system is correctly implementing ballistic solutions in all main gun channels.

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

**POWER
REQUIREMENTS:**
None

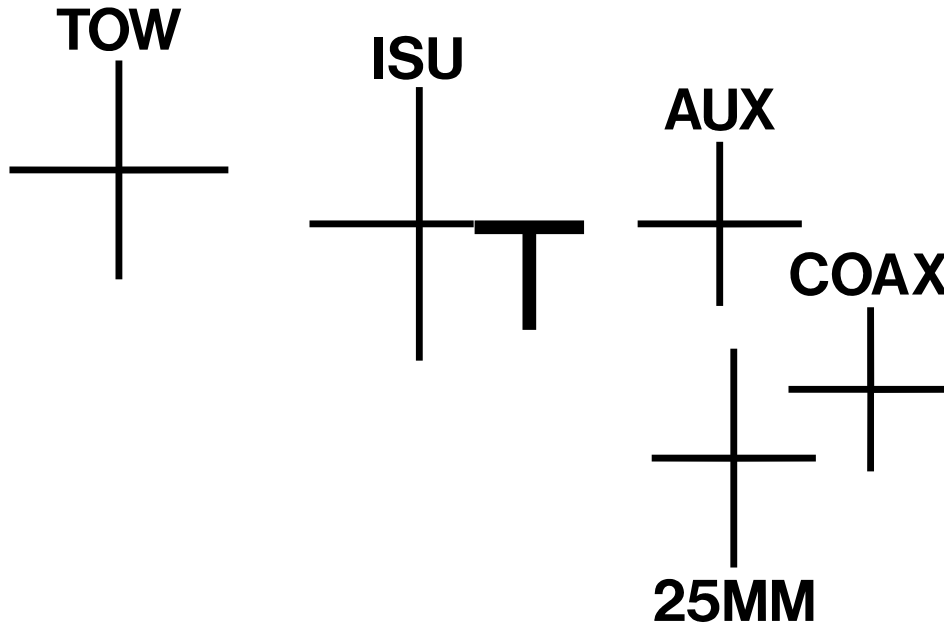
PHYSICAL INFORMATION:

Wood - 6' X 9', 1/2" Plywood,
Painted white.
Plastic - 6' X 9' Wood frame
covered w/white plastic.

PUBLICATIONS:
TM 9-2350-255-10-2
Appendix F
FM 17-12-1-1

CLOSE-IN BORESIGHT PANEL

FHTD 17-019



FHTD 17-019

TRAINING CATEGORY/LEVEL UTILIZED:
Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

PURPOSE OF TRAINER:
Used to boresight the BFV turret weapon in a restricted or confined area. Allows the BFV crew to identify weapon system errors that decrease firing accuracy, and to become more familiar with the weapon.

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

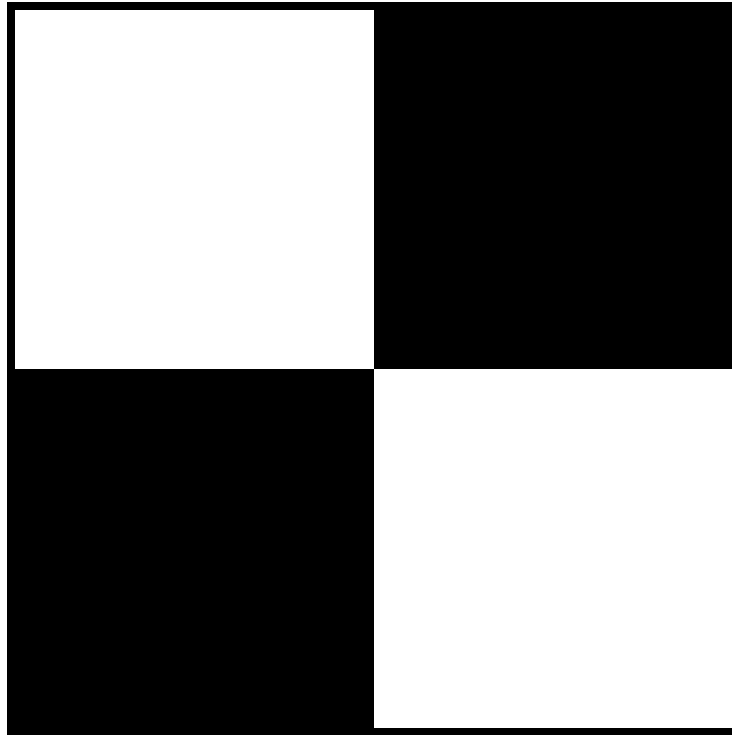
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
Wood - 4' X 8' Wood Frame, 1/2"
Plywood Covering Painted White.

PUBLICATIONS:
None

BORESIGHT PANEL

FHTD 17-020 WOOD



TRAINING CATEGORY/LEVEL UTILIZED:
Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used to conduct a collimation check
and determine if the MBD must be
collimated.

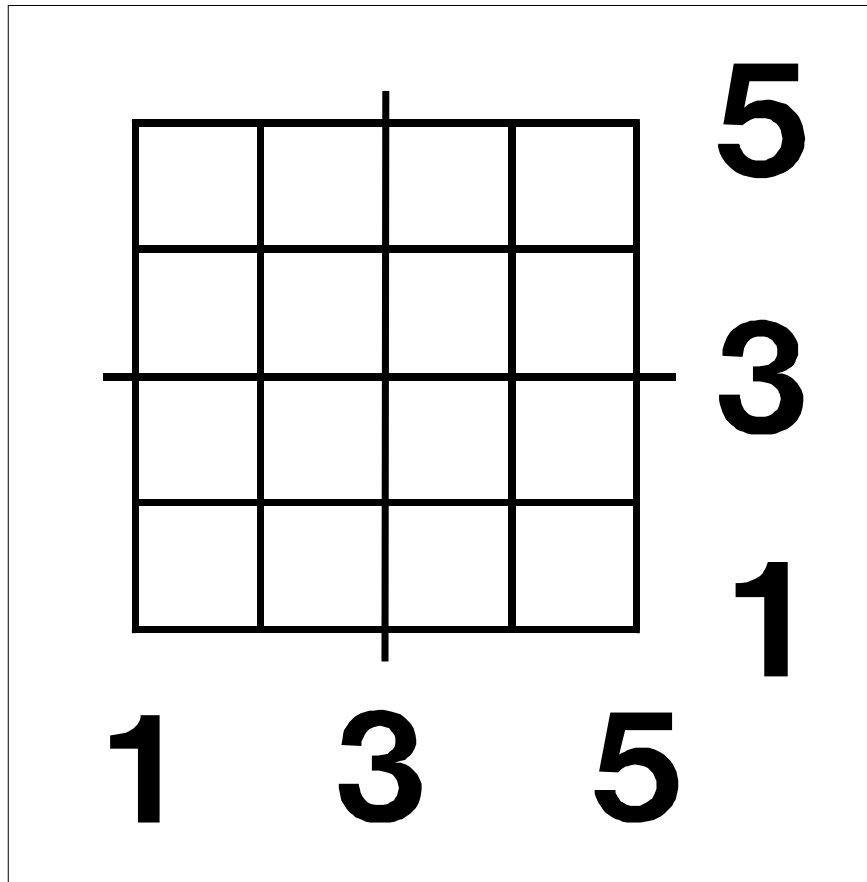
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
Wood - 6' X 6' Wood Frame, ½"
Plywood Covering Painted White.

PUBLICATIONS:
FM 17-12-1-1

BORESIGHT TEST PANEL

FHTD 17-021B



TRAINING CATEGORY/LEVEL UTILIZED:
Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for boresight training.

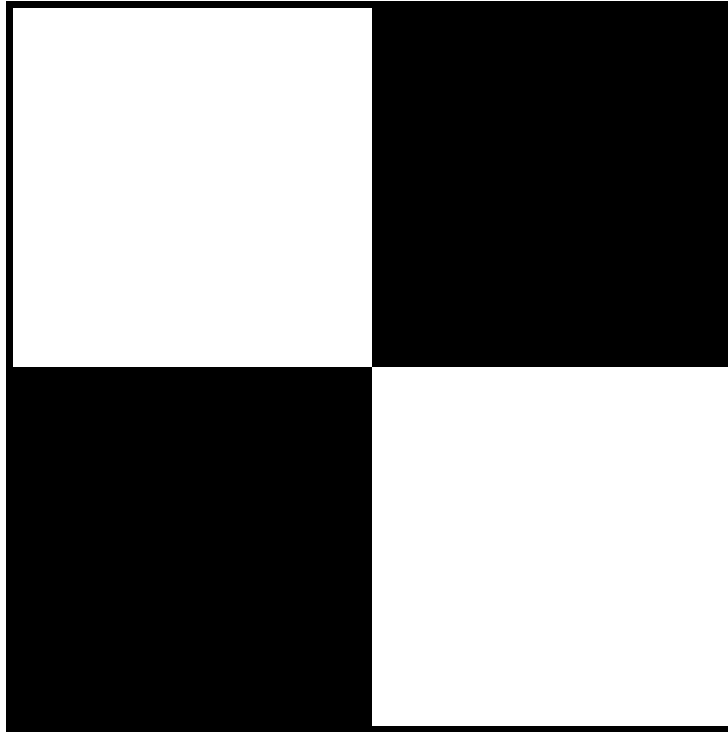
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
Wood – 14" X 14" Wood Frame,
3/4" Plywood Covering Painted
White.

PUBLICATIONS:
None

BORESIGHT PANEL PORTABLE

FHTD 17-024



TRAINING CATEGORY/LEVEL UTILIZED:
Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

PURPOSE OF TRAINER:
Used to conduct a collimation check
and determine if the MBD must be
collimated.

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PHYSICAL INFORMATION:
Wood - 6' X 6' Wood Frame, 3/4"
Plywood, Painted White, Hinged
w/Black Squares on Opposite Sides.
This unit is hinged, foldable and
therefore portable.

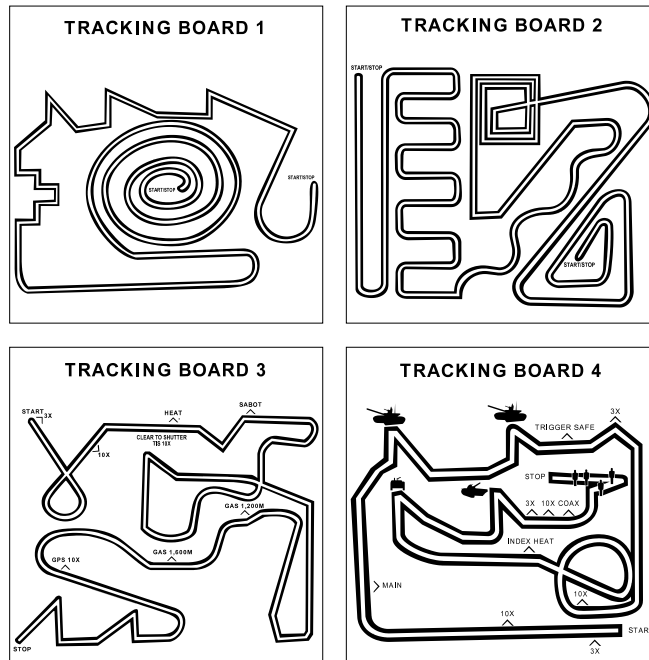
POWER REQUIREMENTS:
None

PUBLICATIONS:
FM 17-12-1-1

TRACKING BOARDS

FHTE 17-024 Plastic

FHTE 17-026 Wood



TRAINING CATEGORY/LEVEL UTILIZED:

Armor/Level 3

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**

None

SOURCE AND METHOD OF OBTAINING:

Available at local TSC

PURPOSE OF TRAINER:

Used to as an effective tool in training hand-and-eye coordination, turret control, speed and accuracy. Consists of 4 separate panels.

**SPECIAL INSTALLATION
REQUIREMENTS:**

None

PHYSICAL INFORMATION:

Plastic – 6' X 6' Wood frame covered w/white plastic.

Wood - 6' X 6' Frame covered w/1/2" Plywood.

POWER REQUIREMENTS:

None

PUBLICATIONS:

FM 17-12-1-2

Thru Site Video Recorder Common (TSVRC) Thru Site Video (TSV)



Training Category/Level Utilized:

Armor/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC at Fort Knox, Fort Hood, Fort Bliss and Fort Carson.

Purpose of Trainer:

The Thru Site Video Recorder Common (TSVRC) is an upgrade to the TSVR System (NSN: 5836-01-559-2503) to make it compatible with the Bradley ODS Fighting Vehicle. In addition, the TSVRC system replaces the spinning hard drive based Vehicle Recording Unit (VRU) of the TSVR System with a 4 channel SD Card Media recorder (VRU-4SD). With the upgrade to a solid state media recorder afforded by the SD card media, the TSVRC system also eliminates the need for the Vibration Cage Assembly (VCA) of the TSVR System.

Functional Description:

The TSVRC system consists of the following components:

- a) Vehicle Recording Unit (VRU-4SD) - The VRU houses a 4 channel SD Card A/V Recorder. A total of 4 removable SD media card ports are provided with output ports to allow the unit to be used as a playback device. Download capability of all files to a PC via USB is also provided.
- b) Universal Through Site Camera (TSC) - The TSC is an aluminum housed camera with beam splitter optics to allow images to be captured through the gun sight optics onboard the vehicle. The TSC mounts on to the M1 Series GPS-E or GAS (using the GAS adapter). The TSC allows the commander or gunner to see through their sights while the embedded camera captures video from the sight.
- c) Low Light Crew Cameras (CRW-CAM) - Two (2) black and white Low Light Crew Cameras with infrared illuminators capture crew coordination with-in the vehicle cabin.
- d) External Audio Adapter (EAA) - The External Audio Adapter connects between the vehicle communications J Box and the crew communication helmet to capture audio from the radio and intercom for recording on the VRU.

- e) CDU Video Adapter cable (CDU), - The CDU Video Adapter Cable is a “T” adapter that taps into the read panel of the Commanders Display Unit on the M1A2SEP and allows the capture of CITV video for recording on the VRB.
- f) TIS Video Adapter (TIS) - The TIS Video adapter cable captures TIS video from the M1A2SEP vehicle.
- g) M1 Gunners Aux Sight Camera Adapter (GAS)- The Gunner Aux Sight Camera adapter allows the Through Sight Camera to mount on the Gunners Aux Sight (GAS)
- h) M1 Loaders Camera Bracket (MCB)- Camera bracket for the M1 Loaders Crew Camera.
- i) M1 Gunners Camera Bracket (SGB)- Camera bracket for the M1 Gunners Crew Camera
- j) M2 Dual Camera Bracket (DCB)- M2 Dual Crew Camera Mounting Bracket
- k) M2 GPS Adapter Ring (M2C) – M2 GPS Through Sight Camera Adapter Ring
- l) M2 Aux Sight Adapter Ring (ASA)- M2 Aux Sight Through Sight Adapter Ring
- m) Bradley Floor Plate Power Cable (C121-20)- Bradley ODS Floor Plate Power Cable
- n) Hand Held Monitor (HHM) - The Hand Held Monitor connects to the AVB and provides a means to position crew cameras prior to a recording evolution.

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements: None.

Power Requirements:

Technical Characteristics

- Current draw < 5 amps @ 28 volts
- Four channel Video/Audio Approximately 1 hour per GB subject to the record/playback complexity of the scene
- Remote Control Unit Operational (from 1/2 foot to 3 feet)
- USB data transfer rate 120mb per second
- Operating Temperature -10°C to 40°C

Applicable Publications:

TM 17-6920-906-10

Reference Publications:

(Information not available)

Training Requirements Supported:

Live fire or laser based training.

DVC 17-284A

M2A2 ODS R-COFT-E

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

THRU-SIGHT VIDEO, TACTICAL MICRO

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

DVC 17-279

THRU-SIGHT VIDEO, MMR

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

SUBCALIBER INBORE TRAINING DEVICE



.50 Caliber Inbore Device

Functional Description:

The device is installed into the breech of the Abrams 120mm cannon. It consists of a single shot bolt-action receiver, solenoid actuated trigger, which is activated through a single connection on the right side of the Breechblock assembly and interfaces with and utilizes the vehicles firing circuits. In operation, the device provides full crew interaction and utilizes the Abrams fire control system.

Purpose of Trainer:

This device (known as the .50 caliber Advanced Inbore Marksmanship Training Enhancement System for Tanks – AIMTEST) is an integral component to the Combined Arms Training Strategy (CATS) for Abrams Tank Crew Gunnery Training to conduct sustainment and remedial training.

Physical Information:

The device is a heavy .50 caliber bolt-action receiver and barrel encased in a precision machined, 120mm casing. The barrel is a standard Browning M2HB machinegun barrel. It fires all standard NATO .50 caliber ammunition to include M962 Saboted Light Armor Penetrator – Tracer (SLAP-T)

Major Components:

- a. Assembly, Barrel, 120mm
- b. Assembly, Receiver
- c. Assembly, Bolt
- d. Assembly, Trigger 24 volts DC (vdc)
- e. Assembly, Electrical Lead (120mm by type gun)
- f. Assembly, Anti-Roll & Counter Recoil Assist (ARCRA)
- g. Tray, Ammunition 2 ea. (120mm by type tank)

Equipment Data:

Caliber.....	50 BMG (12.7x99mm)
System of Operation.....	Manual
Type of Action.....	Bolt Action, Single Shot
Length.....	59 Inches
Width.....	6 5/8 Inches
Height.....	9 3/4 Inches
Weight (Barrel Assembly).....	59 Lbs
Weight (Receiver/Bolt/Trigger Assy).....	17 Lbs
Weight (Total Shipping in Box).....	141 Lbs
Barrel Length.....	45 In
Muzzle Velocity.....	4000 fps with M962 SLAP-T
Muzzle Velocity.....	3050 fps with M20 API-T
Maximum Effective Range.....	2000 meters w/ M962 SLAP-T
Maximum Effective Range.....	1500 Meters with M20 API-T
Trigger Pull.....	20 Lbs

Trigger Assembly (SOLENOID):

Weight.....	4 lbs
Width.....	5.2 inches

DVC 17-277

Height.....3.4 inches
Operational Voltage Range..... 22 -28 volts DC
Operational Amperage Range..... 2 – 8 Amps
Operational Temperature Range..... -46 to +60 Celsius
Operational Force.....Maximum 52 daN (116 lbs) Normal 45 daN (100 lbs)

Equipment Required, Not Supplied:

(Information not available)

Special Installation Requirements:

(Information not available)

Power Requirements:

(Information not available)

Training Category/Level Utilized:

Abrams Tank Gunnery

Training Requirements Supported:

(Information not available)

Applicable Publications:

(Information not available)

Reference Publications:

(Information not available)

Source & Method of obtaining

Available through the supporting Training Support Center

Logistic Responsible Command, Service, or Agency:

PM Ground Combat Systems

A3 THROUGH SIGHT VIDEO (TSV) FOR M2A3/M3A3 BRADLEY FIGHTING VEHICLE

PICTURES NOT AVAILABLE

Functional Description:

The A3 TSV is a vehicle-appended system that provides video and audio recording of gunnery or tactical engagements exercise in real time. The A3 TSV consists of three subsystems: The vehicle interface kit (VIK) subsystem, the recorder kit (RK) subsystem the after action review (AAR) subsystem. The VIK subsystem provides assembly brackets with interface box, power cable, video and audio cable, operators manual and transit case. The RK subsystem provides TEAC hand held controller with cable, TEAC dual/triple deck recorder with dust cover and transit case. The AAR subsystem is a stand-alone component of the A3 TSV that allows single channel full screen display that may be set up anywhere a 110/220vac power source is available. It is used by crews, commanders, and training managers to review gunnery engagements video tapes generated by the RK subsystem.

Purpose of Trainer:

The A3 Through-Site Video (TSV) is designed to support training at all proficiency level as well as during simulated or live fire exercises. The TSV system provides an important building block in the Combined Arms Training Strategy.

Physical Information:

Information not available

Equipment Required, Not Supplied:

HI-FI 8 mm video tapes

Special Installation Requirements:

IAW TM 9-6920-917-10 - Chapter 2 provides step-by step procedures to install and operate the vehicle interface kit and recorder kit.

Power Requirements:

28v power obtained from MRE heater

Training Category/Level Utilized:

Armor/Level 3

Training Requirements Supported:

Information not available

DVC 17-255

Applicable Publications:

TM 9-2350-294-10 - Operate Maintain the M2A3/M3A3 Bradley Fighting Vehicle.
TM 9-6920-917-10 - Thru-Sight Video (TSV) System for M2A3/M3A3 Series Bradley Fighting Vehicle.

Reference Publications:

TEAC recorders COTS Manual (AAR Subsystem)

Source and Method of Obtaining:

Not generally available for issue (limited production)

Logistic Responsible Command, Service, or Agency:

PEO STRI

BATS, M2A3 RELOCATABLE COFT

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

BRADLEY ADVANCED TRAINING SYSTEM GUNNERY (BATS-G)

NSN 6920-01-508-2488 DVC 17-223/2 (BATS-G), PN: BP00070-02, w/ESIG
Computer

NSN 6920-01-508-2488 DVC 17-223/2A (BATS-G), PN: BP00070-02, Sheltered
w/ESIG Computer

NSN 6920-01-508-2489 DVC 17-223/3 (BATS-G), PN: BP00070-03, w/Ensemble
Computer

NSN 6920-01-508-2489 DVC 17-223/3A (BATS-G), PN: BP00070-03, Sheltered
w/Ensemble Computer



Functional Description:

Designed to train or sustain gunner proficiency of crew so that they shall be able to perform the critical skills required in gunnery and combat. A crew station simulates the appearance and functions of training essential turret operating controls, indicators, and weapon sights. An Instructor Operator Station (IOS) through which the I/O initiates exercises, monitors the crew's performance, and interacts with the crew during the training session. A Remote Monitoring Station (RMS) provides additional briefing capabilities. An Image Generator produces full color scenes through the crew's sights. The BATS-G is interoperable with the CCTT training device

Purpose of Trainer:

Provides realistic training for the development of basic and advanced gunnery skills for the M1A1 Abrams tank commander and gunner.

Physical Information:

Turret shelter: 238.5" x 96" x 96"

IOS/RMS shelter: 238.5" x 96" x 96"

Equipment Required, Not Supplied:

None

DVC 17-223

Special Installation Requirements:

The trainer must be installed in an enclosed, air conditioned building. Available floor space of approximately 1,200 square feet is required. A transit path 10 feet wide and 14 feet high is required from the Power Requirements floor space to load/unload the system for installation and uninstall.

Sheltered:

Low extreme: Minus 46°C (-51°F) with no solar load. High extreme: Plus 52°C (125°F) plus a solar load of 1120 watts per square meter (W/m²) (355 BTU/ft²hr) of the shelter exterior.

Power Requirements:

208vac +/-10 percent, 3-phase, 60 Hz +/-1 percent.

Training Category/Level Utilized:

Armor/Level 1

Training Requirements Supported:

MOSC 19K

Applicable Publications:

TD 9-6930-712-12, Instructor's Utilization Handbook

TD 9-6930-712, BATS-G Maintenance Manual Commercial Publications

Reference Publications:

None

Source and Method of Obtaining:

Not generally available for issue (limited production).

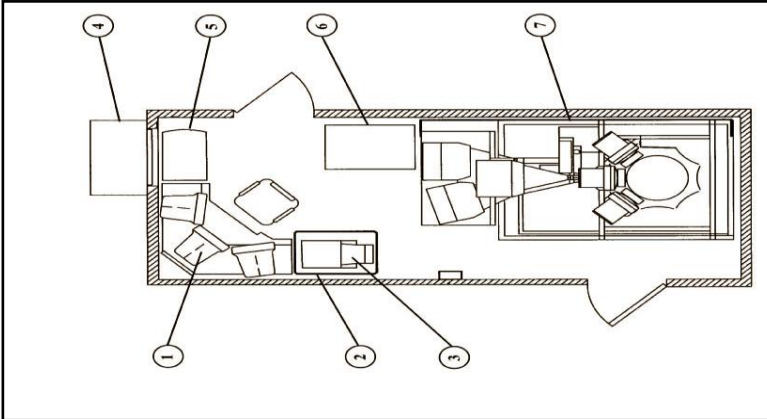
Logistic Responsible Command, Service, or Agency:

PEO STRI

DVC 17-178, DVC 17-178A

ADVANCED GUNNERY TRAINING SYSTEM (AGTS) FOR THE M1A2 (MOBILE) (MAGTS)

DVC 17-178A AGTS for M1A2 System Enhanced Package (SEP) (Mobile)



- 1) Instructor/Operator Station
- 2) General Purpose Computer
- 3) Laser Printer
- 4) Air Conditioner
- 5) Special Purpose Computer
- 6) Electronic Interface Unit
- 7) Crew Station

DVC 17-178, DVC 17-178A

Functional Description:

The M1A2 AGTS provides crew gunnery to commanders and gunners of the M1A2 Abrams Tank. This is accomplished by means of four functional subsystems; Computational, Instructional, Visual and Crew station. The Crew Station subsystem provides the crew with simulated vehicle components of the actual crew stations, which provide proper stimulus of and response to crew actions in a manner approximating the associated operational system. The visual subsystem simulates tactical scenes consisting of a variety of terrain and man-made cultural features and a number of potential target types so that the crew members can be trained in target detection, classification, and gunnery under combat conditions. The Instructional subsystem provides training exercises in which crew(s) interacts with each other and the trainer, in response to visual and aural cues while performing a variety of special purpose task training and tactical firing exercises. The Instructor/Operator Station (IOS) is an element of the instructional subsystem and provides for the selection and assignment of desired exercises from a list of multi-problem exercises correlated to crew capabilities in European or desert terrain databases. The evaluation of crew performance is provided in the form of IOS displays and computer printouts. A training management program provides data necessary to assess crew readiness, direct crew training, and judge crew gunnery proficiency. The SEP Trainer is Equipped with Force XXI Battle Command Brigade-and-Below (FBCB2) digital communication capability. FBCB2 is a battle command information system designed for units performing missions at the tactical level. The AGTS provides FBCB2 functionality at both the crew station and at the IOS to enable digital communications during training exercises. FBCB2 displays the relevant Situational Awareness (SA) picture for the tank commander by plotting the location of his own vehicle, adjacent friendly units, graphical overlays, and enemy icons. The AGTS has undergone a series of improvements to its capabilities. P3I initiatives include two (2) additional unity vision blocks for the tank commander increasing his field of view, a new European terrain database, and improvements to the PAAR. The AGTS continues to mimic the most current capabilities of the Abrams tank through recurring upgrades to the Abrams Common Software Library (ACSL) and FBCB2. The M1A2 SEP TDT replaced the intercom system with a SEP VIC III simulated device, also, upgraded the DID with a new software version which includes new caution/warning tones and voice messages.

Purpose of Trainer:

The AGTS provides training devices for training individual crewmembers (commander only or gunner only), crews (commander and gunner) in precision and degraded gunnery skills for the M1A2. The AGTS can be setup in any one of three configurations: permanent, relocatable, or mobile. This section addresses the mobile configuration.

Physical Information:

The shelter for the AGTS for M1A2 (Mobile-MAGTS) is approximately 20 feet in length, 8 feet wide, and 8 ½ feet high.

Equipment Required, Not Supplied:

None

DVC 17-178, DVC 17-178A

Special Installation Requirements:

None

Power Requirements:

The AGTS trainer, monitoring system and special support equipment operates on standard 230/115-volts, $\pm 10\%$, single-phase, 50/60 Hz power. The system will tolerate the stated input power, $\pm 1\%$. Power line conditioners have been installed to protect the equipment from power fluctuations, sags, surges, and transients. Trainer utility power receptacles have been provided as part of the equipment installation. The receptacles have been placed so that a 120-volt duplex receptacle is within 6 feet of any area where maintenance is to be performed.

Training Category/Level Utilized:

Armor/Level 3

Training Requirements Supported:

M1 Abrams Armor Crewman, MOS 19K

Applicable Publications:

SMM 17-6920-706-AGTS (Volumes 1-3)

SMM 17-6920-706-WSSA-M1A2 (Volumes 1-3)

SMM 17-6920-706-PAAR (Volumes 1-3)

Reference Publications:

FM 3-20-12 (FM 17-12-1) 14 May 2001

Source and Method of Obtaining:

Not generally available for issue (limited production).

Logistic Responsible Command, Service, or Agency:

PEO STRI

**PRECISION GUNNERY SYSTEM
(PGS)**

DVC 17-172/3 (PGS) PGS for M2/M3, M2A1/M3A1, and M2A2/M3A2

DVC 17-172/6 (PGS) Retro Reflectors

DVC 17-172/6M (PGS) Mini Retro Reflectors

DVC 17-172/7 (PGS) Controller Gun

DVC 17-172/9 (PGS) PGS for M2A3/M3A3 Bradley Fighting Vehicle



Functional Description:

The Precision Gunnery System (PGS) is a vehicle mounted device. The PGS can be mounted on M2/3A2/A3. The PGS uses a laser transceiver, retroreflectors, detectors, computer system, tracer burst obscuration, an aural cue effects generator, control panel target interface, and after action review computer. A controller gun has been designed for use in force-on-force training. The controller gun will allow a referee to intervene and control the training scenario from a range of up to 2000 meters.

Purpose of Trainer:

PGS, precision gunnery is integrated with tactical training, to give the crews experience in precision and degraded mode gunnery while under the pressure of opposing force engagements.

Physical Information:

Information not available

Equipment Required, Not Supplied:

Battery, 9v, Alkaline

Special Installation Requirements:

None

Power Requirements:

21-29vdc

Training Category/Level Utilized:

Armor/Level 1

Training Requirements Supported:

DVC 17-134
NSN 6920-01-148-7437

M21 BLANK FIRING ATTACHMENT FOR M240 MACHINE GUN



Functional Description:

The M240 MG is gas operated, i.e.; gases behind the exiting bullet are bled off through ports in the barrel and this back pressure is used to cycle the weapon for continuous firing. The orifice in the M21 BFA is designed to duplicate that action by restricting blank firing gases and creating back pressure that will provide a cyclic rate similar to the rates experienced using service ammunition. The M21 Blank Firing Adapter for the M240 Machine Gun is designed to replace the Flash Hider on the weapon for training exercises. Of one-piece cast corrosion-resistant steel, the BFA design incorporates a specific sized orifice to restrict gases generated by blank firing just as a bullet passing through the barrel and a parabolic chamber to enhance the aural signature of the weapon under blank firing conditions. Fins on the outer diameter of the BFA help dissipate heat buildup. The front end of the BFA is designed to accept installation of various extensions to insure expulsion of gases when the M240 MG/M21 BFA combination is used in the M60A1/A3 Tank, or M1/M1A1 MBT.

Purpose of Trainer:

The M21 Blank firing Attachment permits the firing of linked blank 7.62mm ammunition in the M240 Machine Gun. This allows simulation of live round firing in tactical engagement exercises to support tactical training.

Physical Information:

Weight: Approximately 3 lb. (Each component)

Equipment Required, Not Supplied:

None

DVC 17-134
NSN 6920-01-148-7437

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Armor/Level 3

Training Requirements Supported:

MOSC 11B, 11M, 19D, 19E, 19K

Applicable Publications:

TM 9-1005-316-12&P

Reference Publications:

TM 9-1005-313 Series

Source and Method of Obtaining:

Available through local TSC.

Logistic Responsible Command, Service, or Agency:

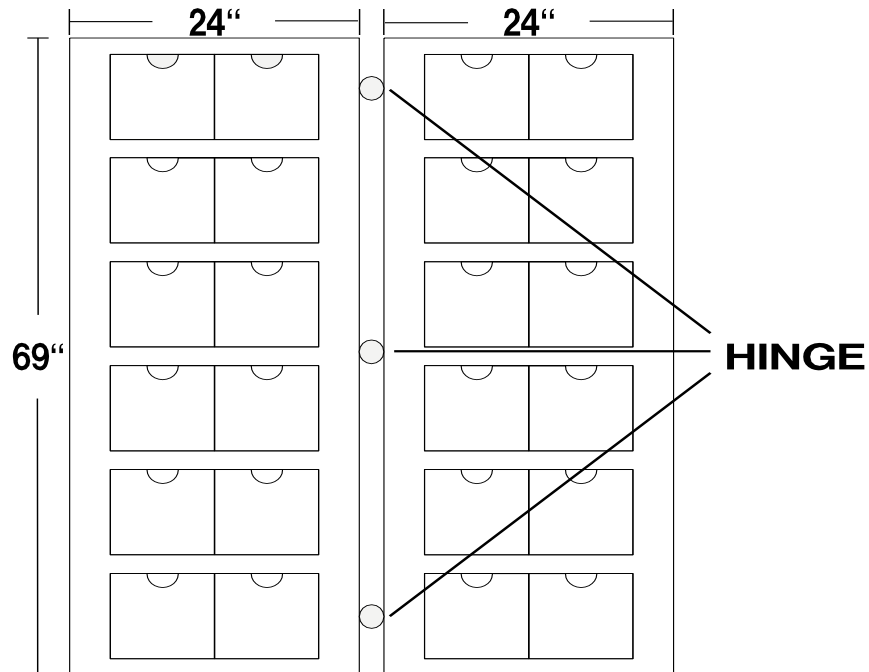
ACALA

GENERAL



MAP BOARD EVENT

FHTD 20-004



TRAINING CATEGORY/LEVEL UTILIZED:
General/All Levels

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used to hold Maps and other training
aids during training exercises.

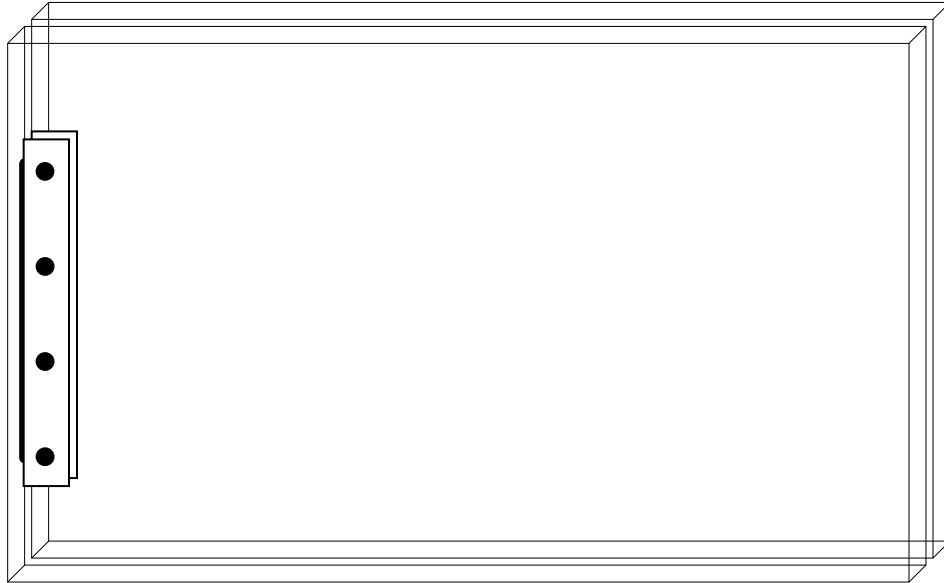
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(2) 1/2" x 24" x 69" plywood
(3) 4" Strap Hinges
(24) 11" x 9" Landscaped Lexan
Pockets
Painted flat black

PUBLICATIONS:
None

MAP BOARD CLEAR

FHTD 20-32A



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used to hold Maps and other training aids during training exercises. Maps can be placed between the two pieces of clear Lexan.

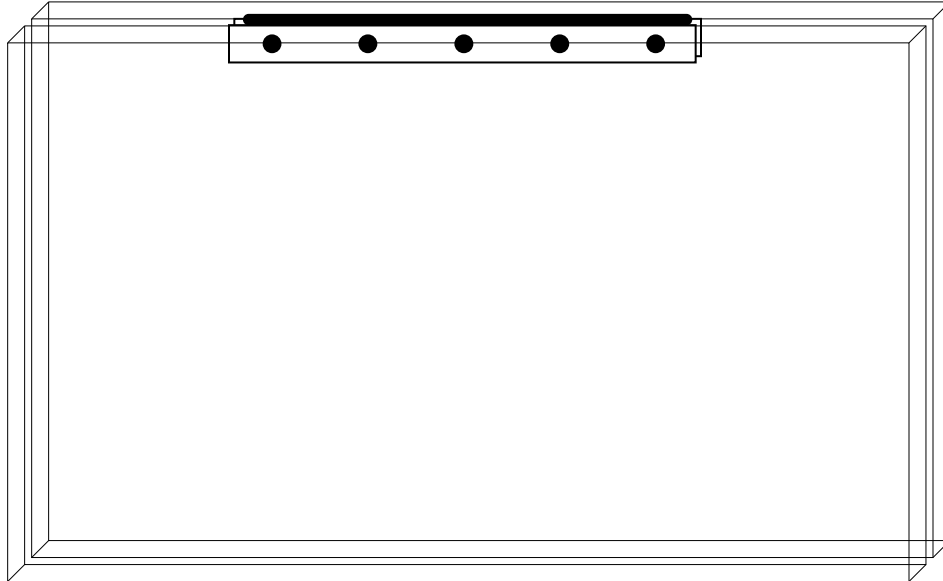
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(2) 16" x 22" Lexan
(1) Strap Hinges

PUBLICATIONS:
None

MAP BOARD CLEAR

FHTD 20-32B



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used to hold Maps and other training aids during training exercises. Maps can be placed between the two pieces of clear Lexan.

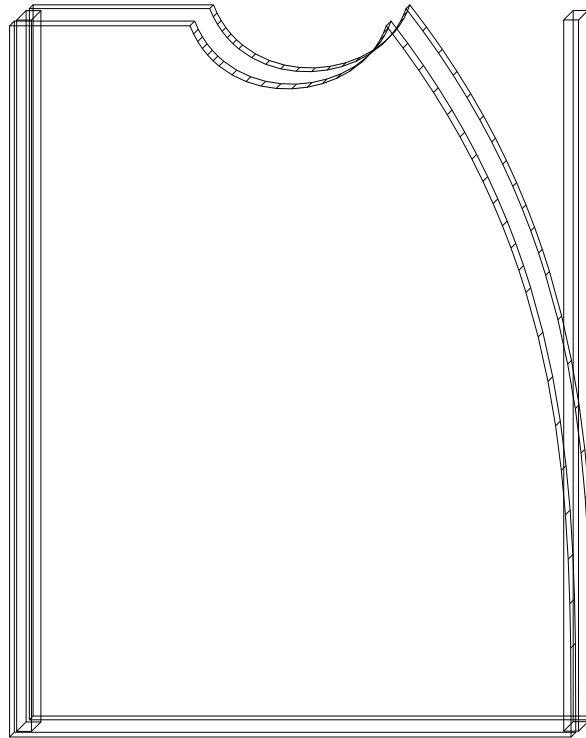
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(2) 16" x 22" Lexan
(1) Strap Hinges

PUBLICATIONS:
None

MAP BOARD CLEAR

FHTD 20-32C



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used to hold Maps and other training
aids during training exercises.
Enclosed on three sides and opened
on the top.

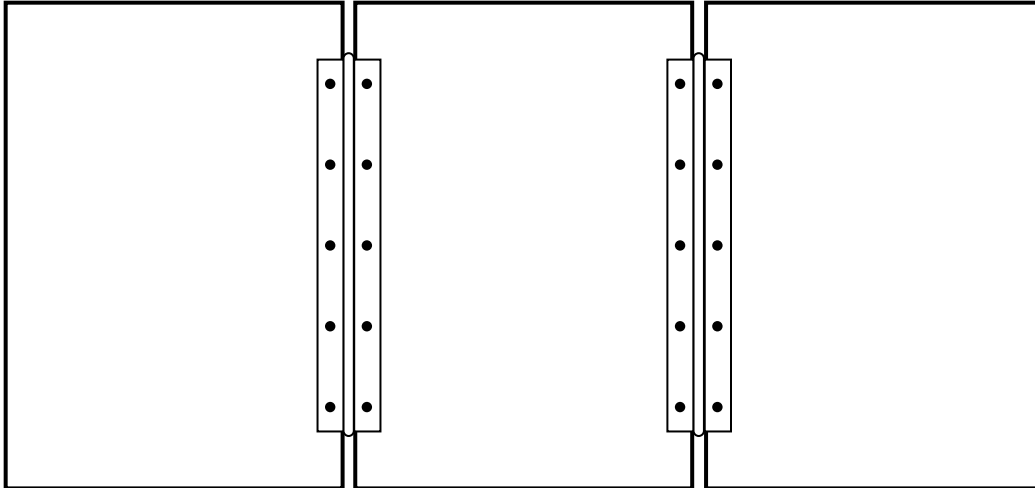
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(2) 1/8" x 16" x 22" Lexan
(3) 1/4" Spacer Lexan

PUBLICATIONS:
None

MAP BOARD CLEAR

FHTD 20-32D



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used to hold Maps and other training aids during training exercises. Enclosed on three sides and opened on the top. Lexan is hinged tri-fold, one sheet is 1/4" shorter to fold inside. A 1/4" spacer is under one hinge.

POWER REQUIREMENTS:
None

PUBLICATIONS:
None

PHYSICAL INFORMATION:
(3) 1/8" x 16" x 22" Lexan
(1) 1/4" x 1/2" x 22" Spacer Lexan
(2) Strap Hinges

**COMMANDER'S BOARD
(COMPANY METL)**

FHTD 20-33

S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	
CURRENT	M	T	W	TH	F		T-3	M	T	W	TH	F		T-6	M	T	W	TH	F		
WK _____							WK _____							WK _____							
FOCUS _____							FOCUS _____							FOCUS _____							
T-1	M	T	W	TH	F		T-4	M	T	W	TH	F		COMPANY METL							
WK _____							WK _____														
FOCUS _____							FOCUS _____														
T-2	M	T	W	TH	F		T-5	M	T	W	TH	F									
WK _____							WK _____														
FOCUS _____							FOCUS _____														

TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for planning during training
exercises.

POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1) 1/2" x 4'x 8" plywood w/ 3/4"
frame painted white
(3) 1/8" x 17" 32" Lexan; interchangeable
(7) 1/8" x 8" x 30" Lexan; interchangeable
(1) 1/8" x 17" x 30" Lexan
(3) 1 month calendar
(7) 5 day calendar

PUBLICATIONS:
None

COMMANDER'S BOARD

(COMPANY SCHEME)

FHTD 20-33A

S	M	T	W	TH	F	S	S	M	T	W	TH	F	S	S	M	T	W	TH	F	S		

CURRENT WK _____ FOCUS _____	M T W TH F	T-3 WK _____ FOCUS _____	M T W TH F	T-6 WK _____ FOCUS _____	M T W TH F
T-1 WK _____ FOCUS _____	M T W TH F	T-4 WK _____ FOCUS _____	M T W TH F	COMPANY SCHEME	
T-2 WK _____ FOCUS _____	M T W TH F	T-5 WK _____ FOCUS _____	M T W TH F		

TRAINING CATEGORY/LEVEL UTILIZED:
 General/Level 1

EQUIPMENT REQUIRED, NOT SUPPLIED:
 None

SOURCE AND METHOD OF OBTAINING:
 Available at local TSC

SPECIAL INSTALLATION REQUIREMENTS:
 None

PURPOSE OF TRAINER:
 Used for planning during training exercises.

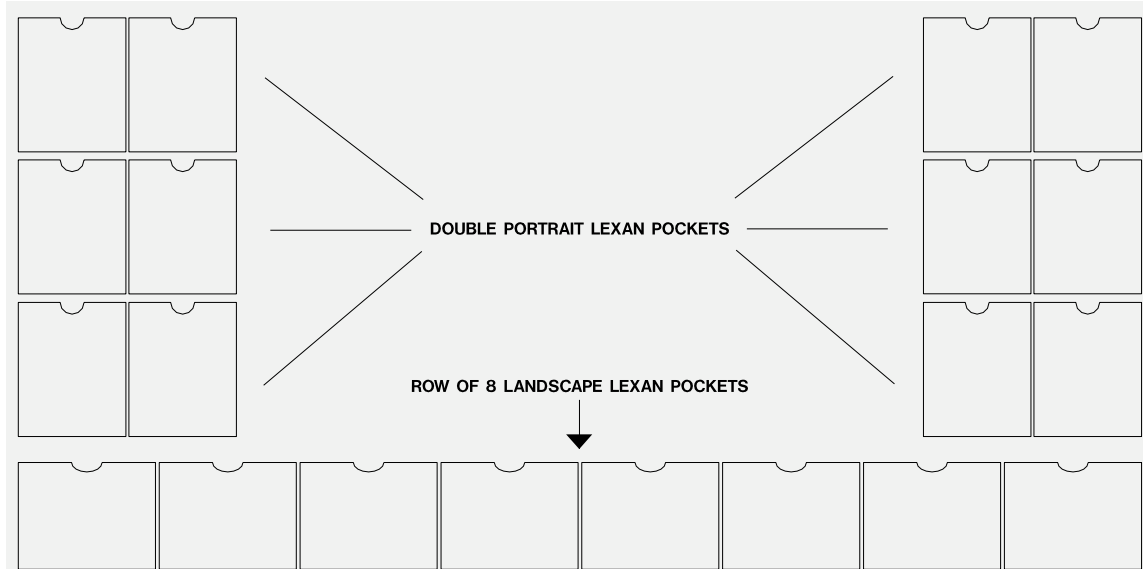
POWER REQUIREMENTS:
 None

- PHYSICAL INFORMATION:**
- (1) 1/2" x 4' x 8" plywood w/ 3/4" frame painted white
 - (3) 1/8" x 17" 32" Lexan; interchangeable
 - (7) 1/8" x 8" x 30" Lexan; interchangeable
 - (1) 1/8" x 17" x 30" Lexan
 - (3) 1 month calendar
 - (7) 5 day calendar

PUBLICATIONS:
 None

TRAINING SCHEDULE BOARD

FHTD 20-34A



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for scheduling during training
and exercises.

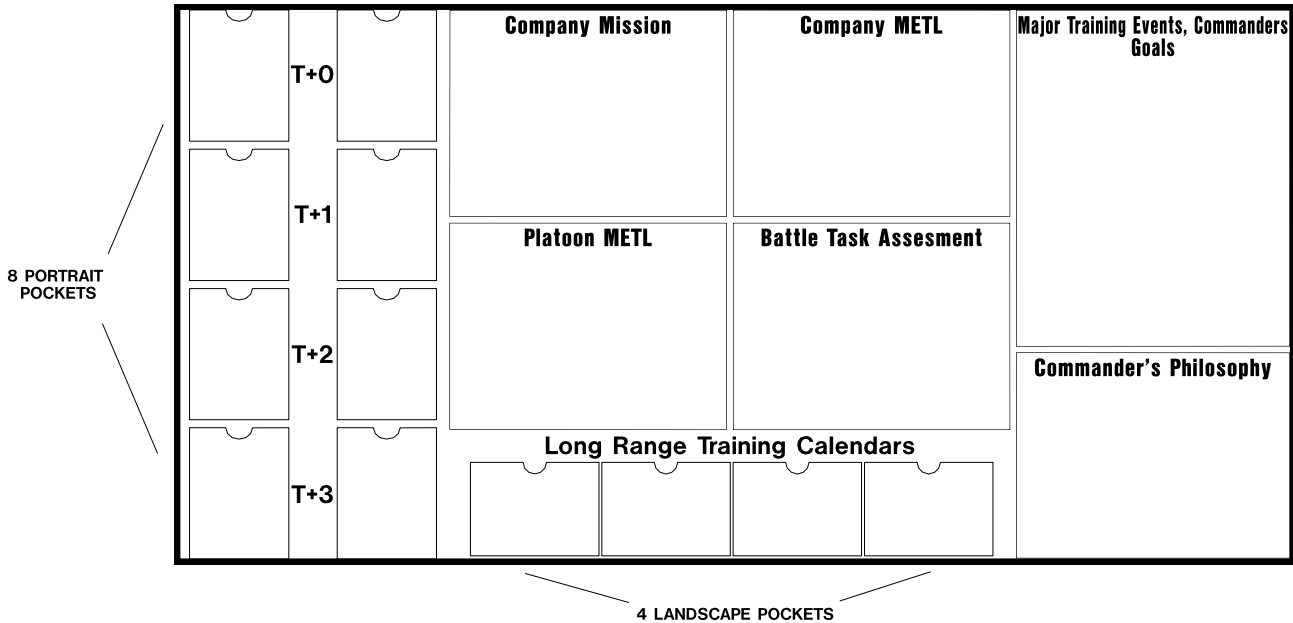
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1) ½" x 4' x 8' plywood painted white
(12) 9" x 11" Portrait Lexan Pockets
(8) 11" x 9" Landscape Lexan Pockets

PUBLICATIONS:
None

TRAINING BOARD (LONG RANGE TRAINING CALENDARS)

FHTD 20-34B



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for long range training
calendar.

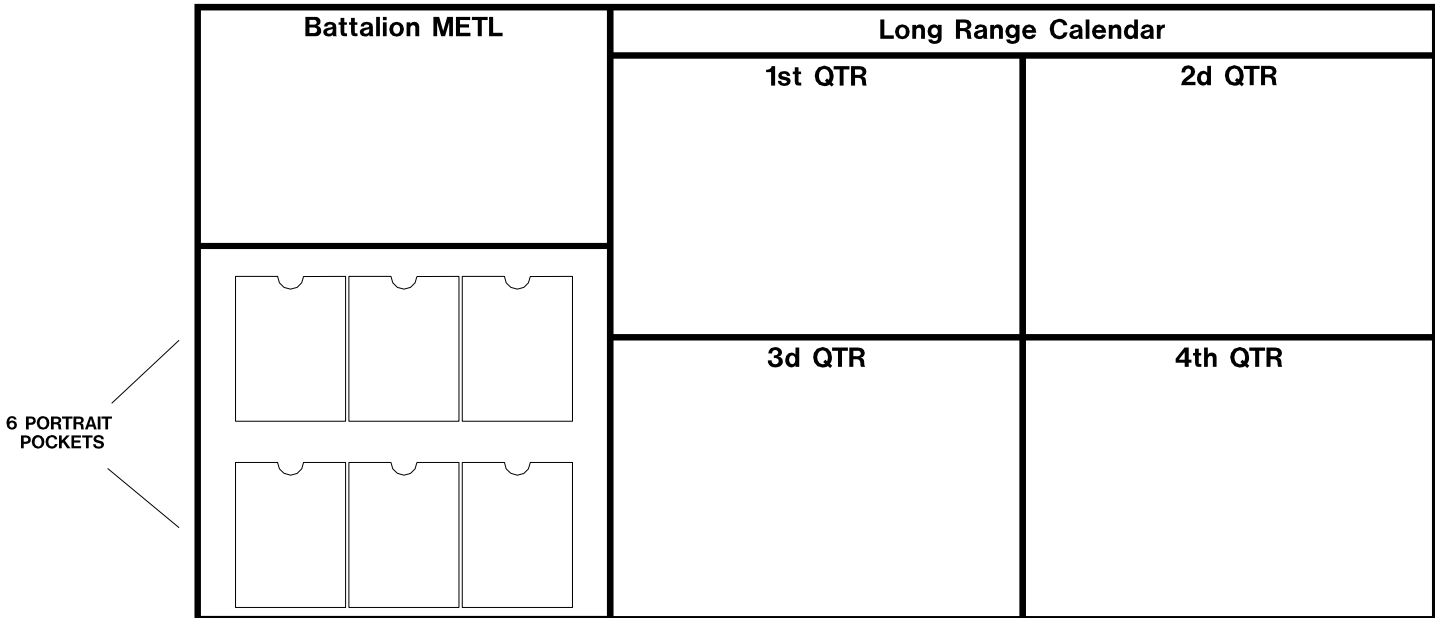
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1) ½" x 4' x 8' plywood painted white
(8) 9" x 11" Lexan drop in frames
(4) 11" x 9" Lexan drop in frames
(4) 18" x 24" Lexan frames removable.

PUBLICATIONS:
None

**TRAINING BOARD
(LONG RANGE CALENDAR)**

FHTD 20-34C



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for long range calendar.

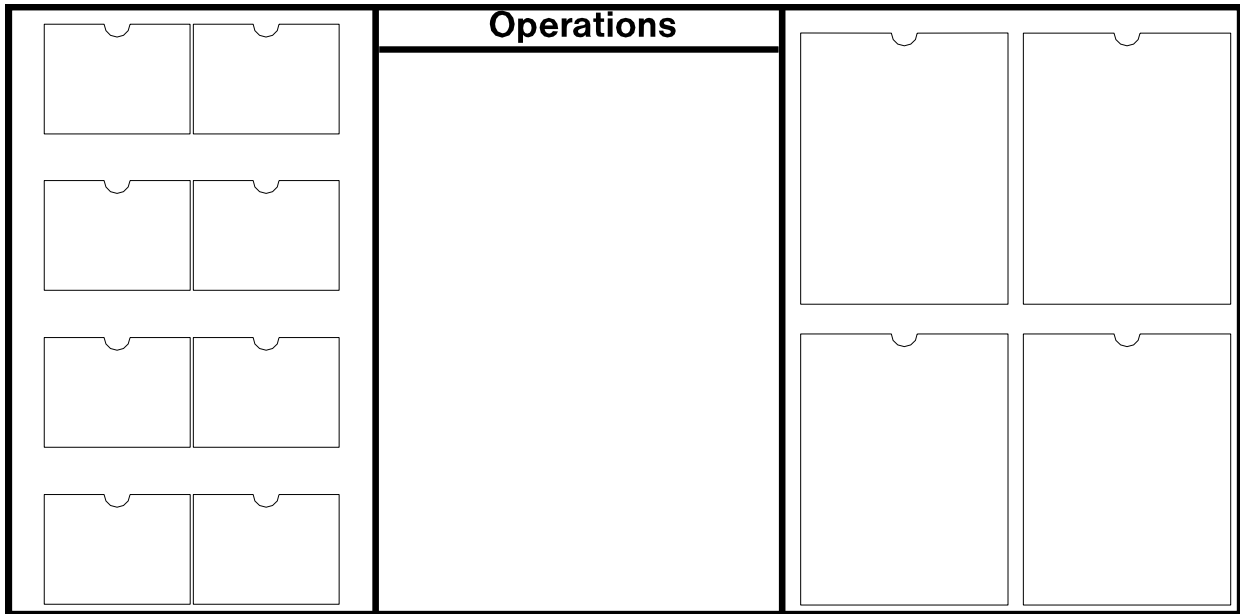
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1) ½" x 4' x 8' plywood painted white
(6) 11"x 9" Portrait Lexan drop in frames
(4) 21" x 32" Lexan removable
(1) 32" x 18" Lexan removable

PUBLICATIONS:
None

TRAINING BOARD (OPERATIONS BOARD)

FHTD 20-34D



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for scheduling during training
and exercises.

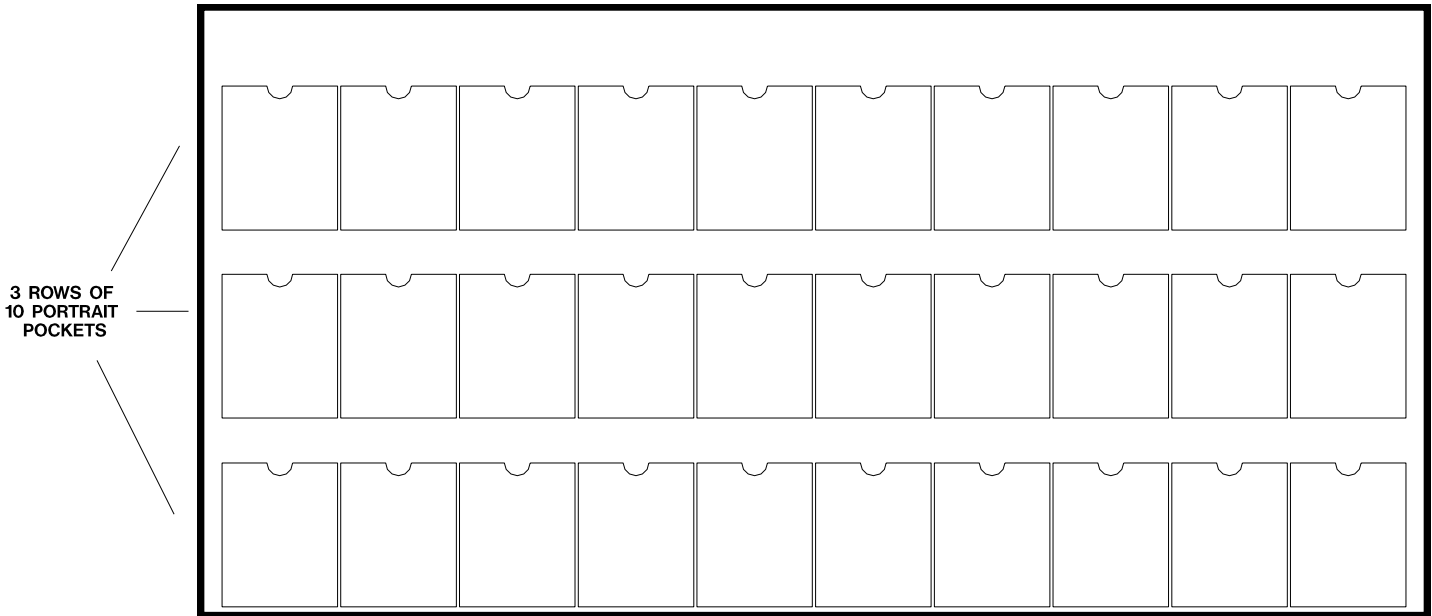
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1) ½" x 4' x 8' plywood painted white
(8) 11" x 9" Landscape Lexan drop in
frames
(1) 34" x 43" removable Lexan
(4) 16" x 21" Lexan drop in frames

PUBLICATIONS:
None

TRAINING SCHEDULE BOARD

FHTD 20-36



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for scheduling during training
and exercises.

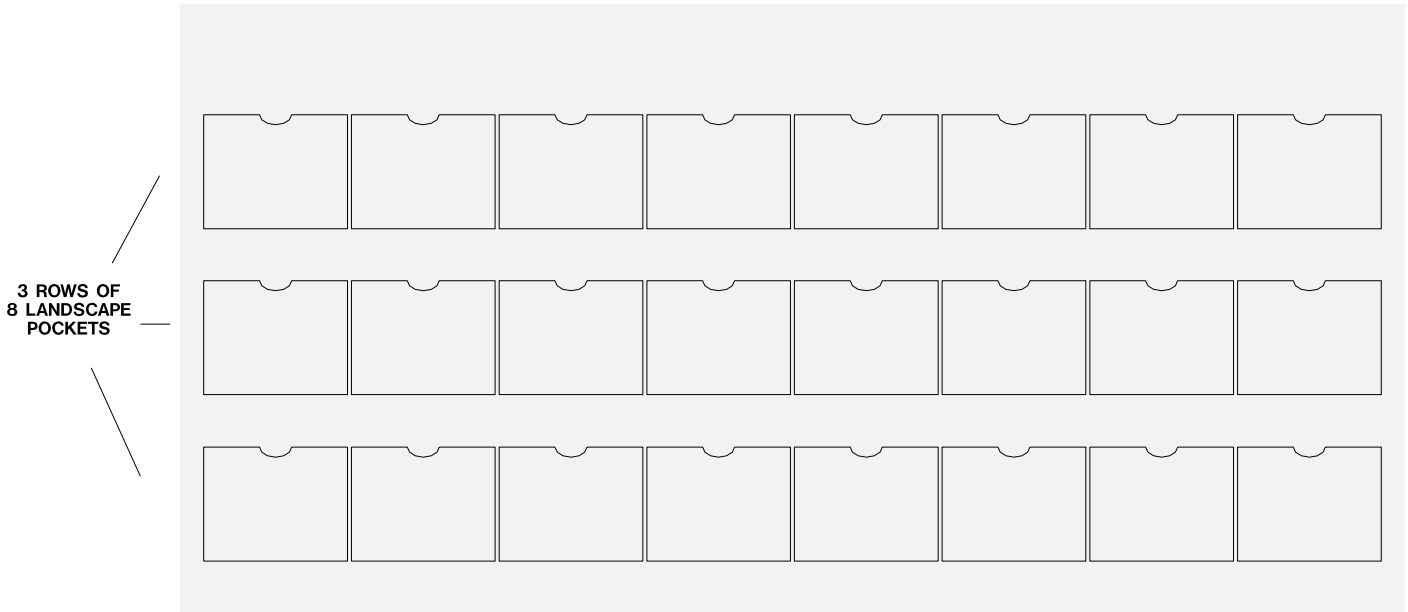
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1) ½" x 4' x 8' plywood painted white
(27) 9" x 12" Lexan pockets, Portrait

PUBLICATIONS:
None

TRAINING SCHEDULE BOARD

FHTD 20-36A



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for scheduling during training
and exercises.

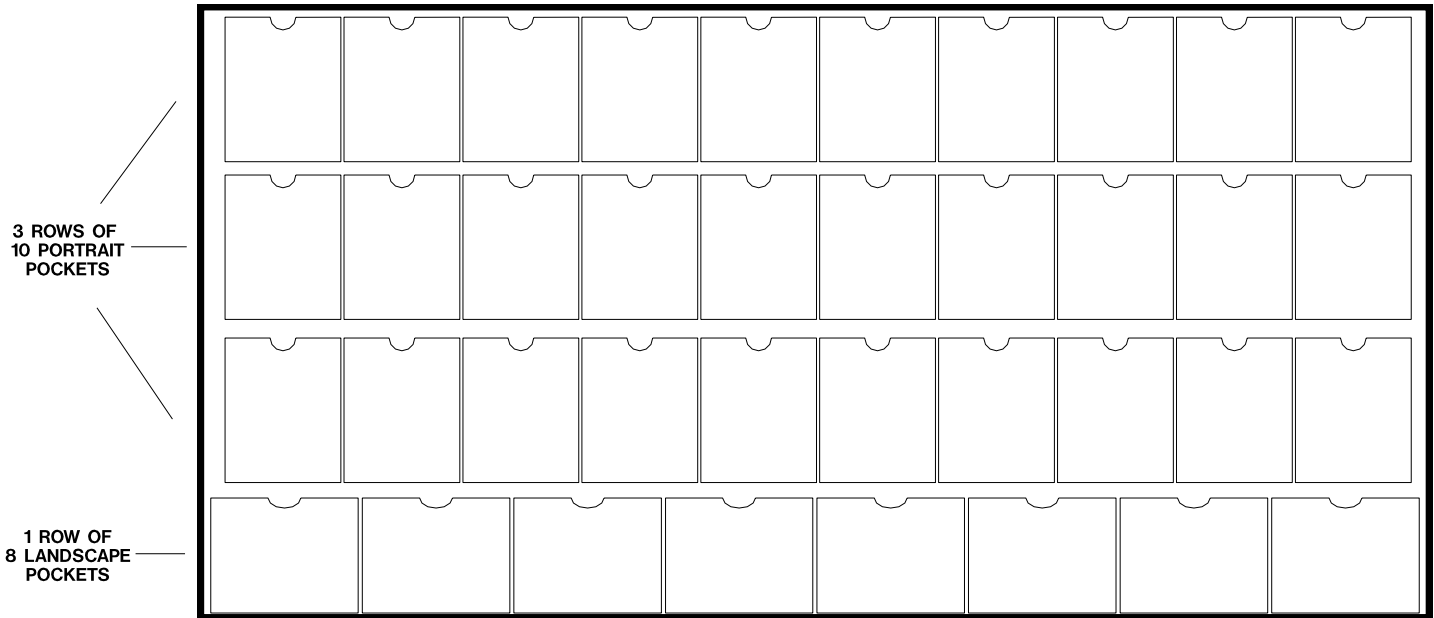
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1) ½" x 4' x 8' plywood painted white
(27) 9" x 12" Lexan pockets, Portrait

PUBLICATIONS:
None

TRAINING SCHEDULE BOARD

FHTD 20-36B



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for scheduling during training
and exercises.

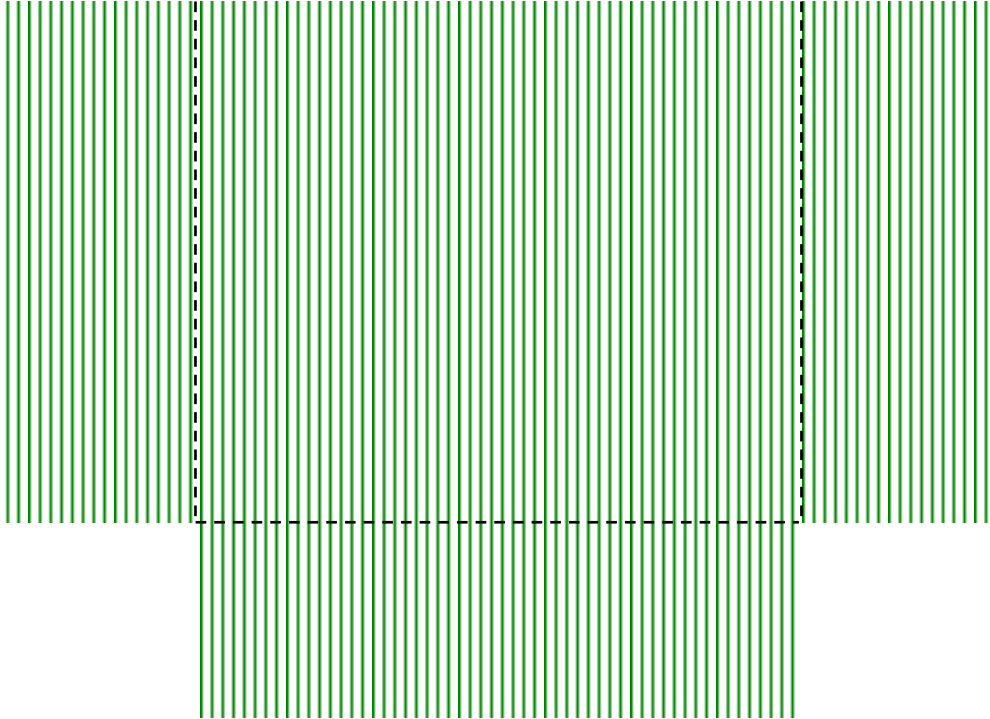
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1) 1/2" x 4' x 8' plywood painted white
(30) 9" x 11" Lexan pockets, Portrait
(8) 11" x 9" Lexan pockets, Landscape

PUBLICATIONS:
None

MAP BOARD GREEN PLASTIC

FHTD 20-41



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for Map Boards. Plastic overlay
hangers on top. Foldable and
portable.

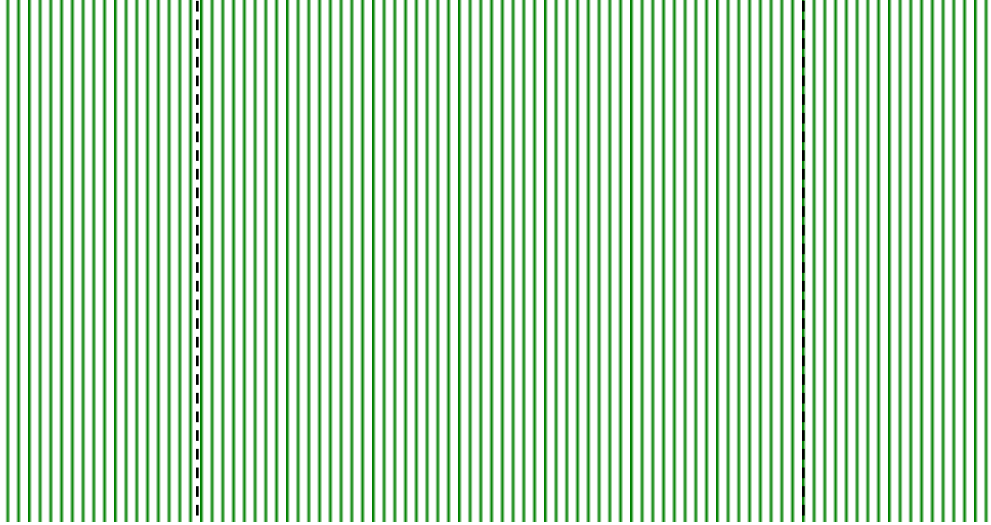
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
6' x 10' green corrugated plastic folds
to 4' x 6' w/overlay hangers.

PUBLICATIONS:
None

MAP BOARD GREEN PLASTIC

FHTD 20-41A



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for Map Boards. Plastic overlay
hangers on top. Foldable and
portable.

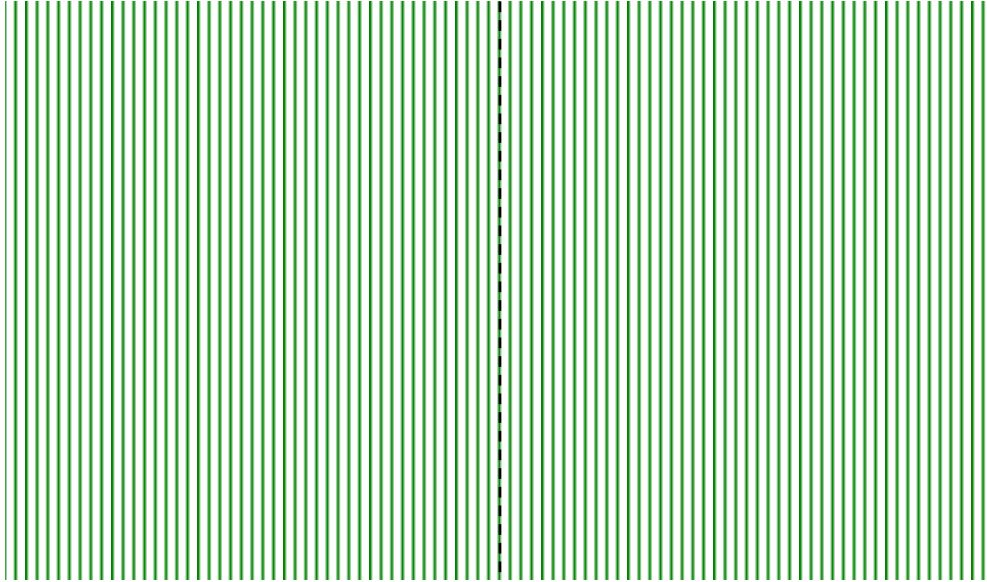
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
4' x 10' green corrugated plastic folds
to 4' x 6' w/overlay hangers.

PUBLICATIONS:
None

MAP BOARD GREEN PLASTIC

FHTD 20-41B



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for Map Boards. Plastic overlay
hangers on top. Foldable and
portable.

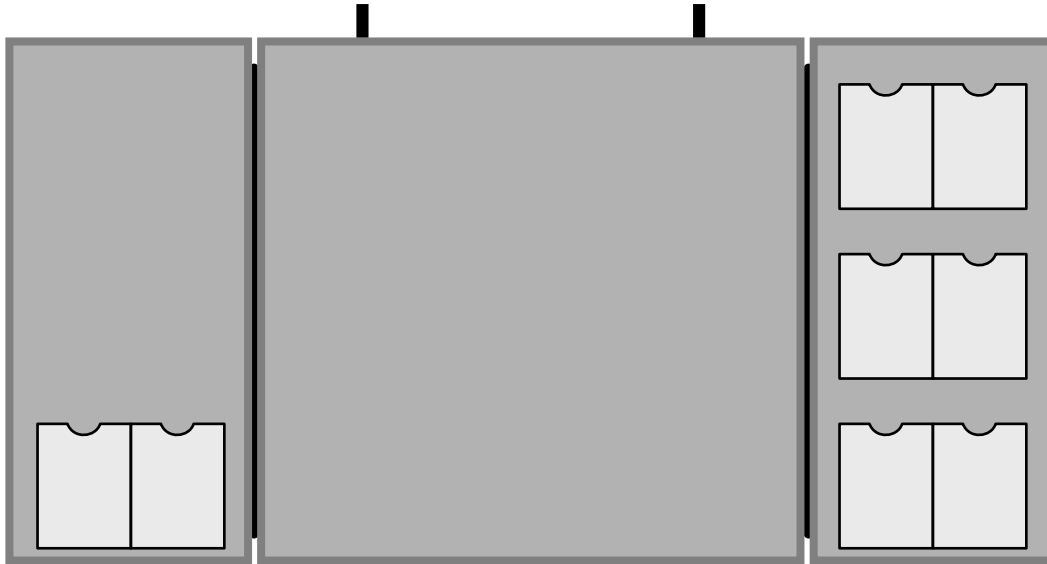
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
4' x 8' green corrugated plastic folds to
4' x 4' w/overlay hangers.

PUBLICATIONS:
None

MAP BOARD FOLDING

FHTD 20-2-137A
FHTD 20-2-137B
FHTD 20-2-137C
FHTD 20-2-137D



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for Map Boards. Foldable and
portable.

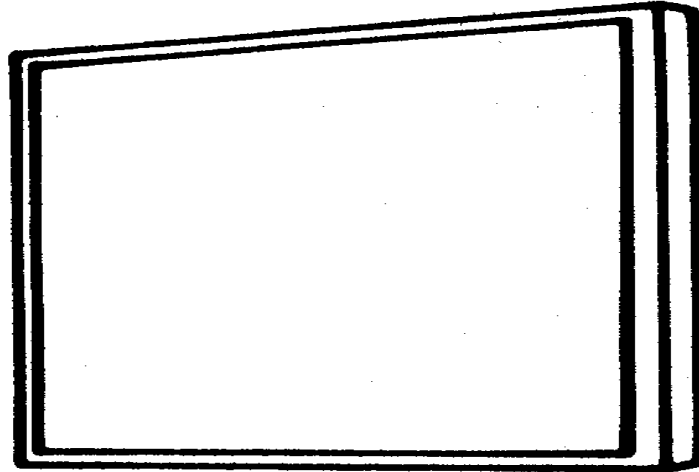
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
(1)4' x 8' & (2) 2' x 4' 1/4" Plywood w/ 1" x 1/2"
Frame hinged to fold to 4' x 4' painted gray
137A-Frames & hinges
137B-Frames, hinges, hooks, & hangers
137C-Frames, hinges, hooks, hangers, & Lexan
137D-Frames, hinges, hooks, hangers, Lexan,
&(4) double portrait pockets as shown

PUBLICATIONS:
None

MAP BOARDS WITHOUT STANDS

FHTE 20-2-4A, 4B, 4C



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for map board without stand.
Unit is portable and can be hung on
walls.

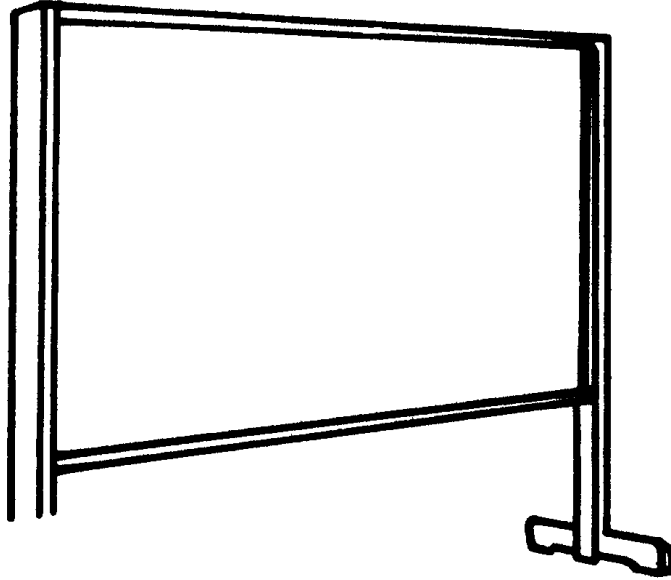
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
4' x 4' Wood Frame w/Cork inside
4' x 6' Wood Frame w/Cork inside
4' x 8' Wood Frame w/Cork inside
Painted Desert Tan

PUBLICATIONS:
None

MAP BOARDS WITH STANDS

FHTE 20-2-6A, 6B, 6C



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for map board with stand.
Unit is portable.

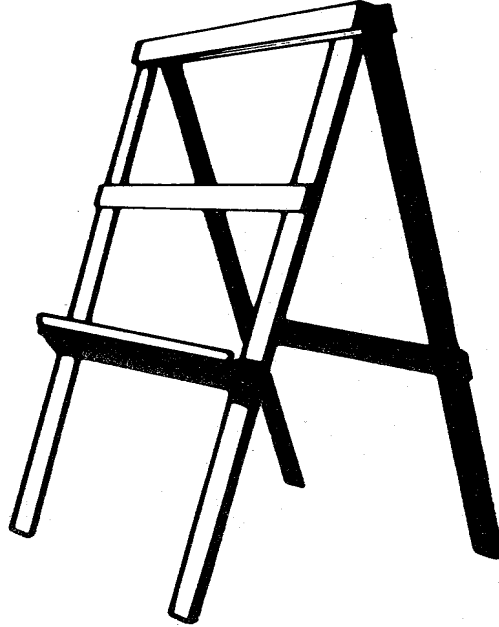
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
4' x 4' Wood Frame w/Cork inside
4' x 6' Wood Frame w/Cork inside
4' x 8' Wood Frame w/Cork inside
Painted Desert Tan

PUBLICATIONS:
None

EASEL, CHALKBOARD & GTA

FHTE 20-2-11



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for holding training aids map
boards and chalk boards.

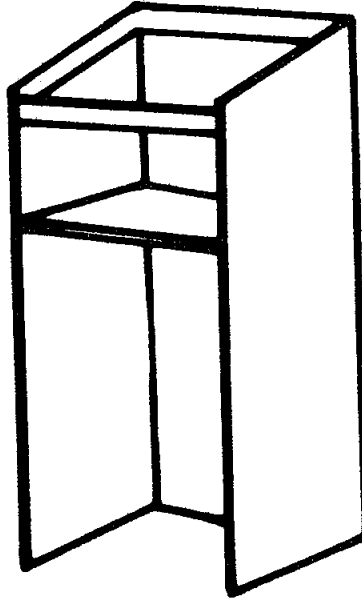
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
1" x 3" material cut to size with the
support legs hinged at the top and
stabilizing ropes at the bottom. The
tray is 1 ½" sq x 48" and notched to
make the tray. Easel is painted gray.

PUBLICATIONS:
None

INSTRUCTOR STAND BOX TYPE

FHTE 20-2-15



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for instructors platform
during training.

POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
2' x 2' x 4' Open backed, 1 shelf,
sloped top, plywood construction.
Painted light gray

PUBLICATIONS:
None

INSTRUCTOR STAND PEDESTAL TYPE

FHTE 20-2-16



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for instructors platform
during training.

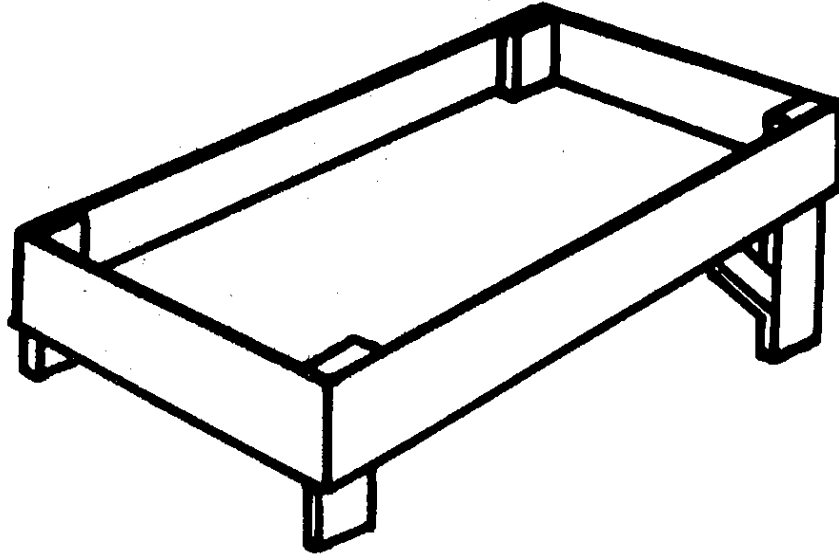
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
4" x 4" Upright w/angled top,
sturdy 2" x 4" wood base.
Painted light gray

PUBLICATIONS:
None

SAND BOX

FHTE 20-2-24



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for training.

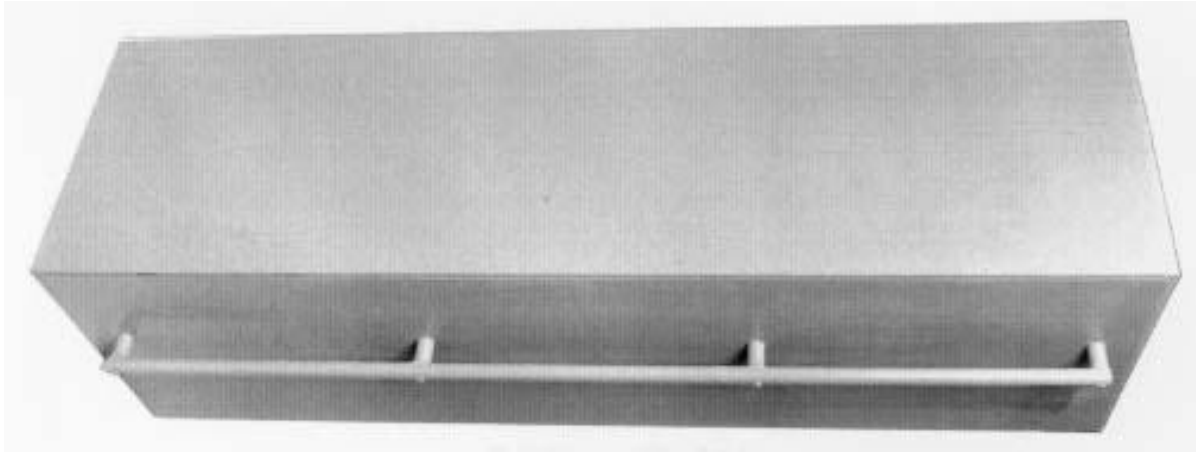
POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
4' X 6' Wood box angled on
4" x 4" Legs.
Painted gray

PUBLICATIONS:
None

COFFIN

FHTE 20-2-57



TRAINING CATEGORY/LEVEL UTILIZED:
General/Level 1

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for training.

POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
4' X 6' Wood box angled on
4" x 4" Legs.

PUBLICATIONS:
None

DVC 07-22D
NSN 6920-01-099-0170

SMALL ARMS FLASH-NOISE GUNFIRE SIMULATOR



Functional Description:

The trainer consists of a gun simulator, a carrying case, and an ac-to-dc converter. Outwardly, the device resembles a real machine gun. It may be fired from the device or remotely in single shots or bursts, using a metered mixture of oxygen and propane, which is ignited inside the barrel by a spark plug. Oxygen and propane cylinders are enclosed in the carrying case.

An instructor may fire the device remotely while observing results or a number of these devices may be operated simultaneously by locating remote trigger switches for all related devices at a central location.

Note: Earlier models (DVC 07-22, 07-22A, and 07-22B) used a standard ignition system. Both C and D models use solid state ignition assemblies for greater reliability.

Purpose of Trainer:

To provide simulated small-arms gunfire (rifle or machine gun noise and flash) for infantry training. The specific training requirements supported are shown following the descriptive data.

Physical Information:

Gun simulator: 51" x 19" x 46"; 36 lb

Carrying case: 13" x 12" x 23"; 137 lb

Converter: 8" x 7"; 6 lb

Equipment Required, Not Supplied:

One 24-volt storage battery (for optional dc operation only)

One 3-conductor electrical cable (ac power)

DVC 07-22D
NSN 6920-01-099-0170

Special Installation Requirements:

None

Power Requirements:

110/220vac, single-phase, or 24vdc

Training Category/Level Utilized:

Infantry/Level 3

Training Requirements Supported:

ARTEP Task

8-28-F

SM 071-11A Tasks

2004 2005 2304

Applicable Publications:

For earlier models use: NAVSO P-2964, Maintenance Handbook with Parts List for Simulator, Small Arms, Flash Noise, Device 3F63

For DVC 07-22C use: NAVTRADEV P-4427, Maintenance Manual with Parts List

For DVC 07-22D use: NAVTRADEV P-4650

Reference Publications:

None

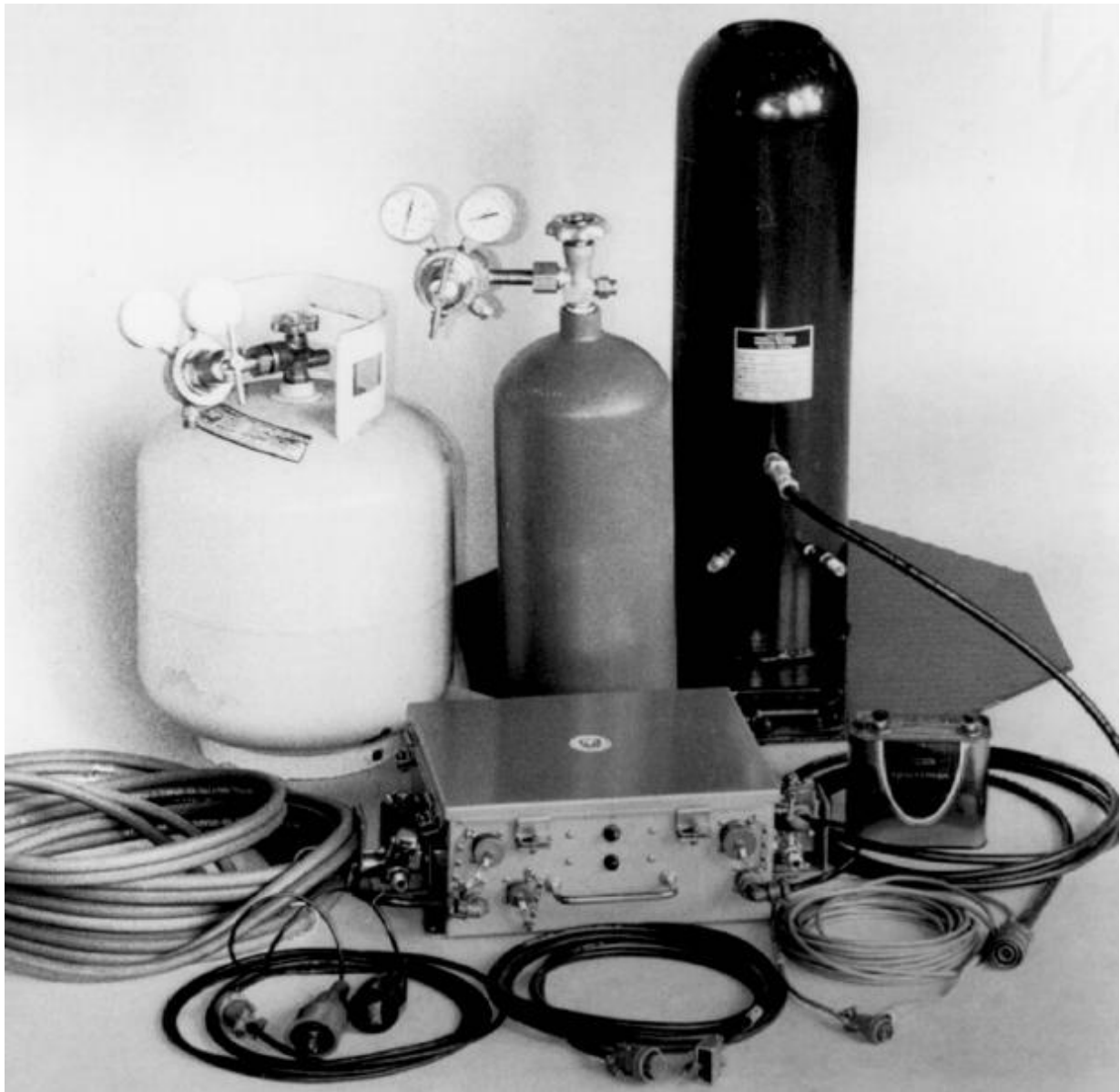
Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

ARTILLERY, MINE, AND DEMOLITION NOISE SIMULATOR



Training Category/Level Utilized:
Combat/Level 3

Logistic Responsible Command, Service, or Agency:
PEO STRI

Source and Method of Obtaining:
Available through local TSC.

Purpose of Trainer:
To provide realistic simulation of common battle noises.
Supports general basic training.

Functional Description:

The devices are noise simulators which can be used in all types of combat courses. They can be used to simulate the noise of artillery and mortar fire, demolition, and mines instead of high explosives in demolition pits. The device operates on the oxygen-propane principle with gases metered through solenoid valves with a timing device initiating a spark in the gas filled chamber to cause the explosion. A remote trigger switch is used to fire the device from a remote location and it can fire a single shot or a sequence of six shots at 10 second intervals. During normal firing, the device is safe at a distance of 10 feet.

Physical Information:

Firing Chamber Assembly: 24" x 24" x 32 1/2" high

Timing Box: 18" x 13" x 5 1/2" high

Total Weight: 125 lb.

Equipment Required, Not Supplied:

12vdc battery

Special Installation Requirements:

Two pits approximately 48" deep, 48" wide, and 48" long are required. One pit is used for the explosion chamber. The other pit is for the oxygen and propane cylinders and the timing assembly. The pits should be separated by at least one foot of earth and reinforced by 4" x 4" corner posts with 2" x 6"

sideboards to prevent the walls from collapsing due to the shock experienced when the device is detonated.

Power Requirements:

100vac, single-phase, 60 Hz. Can also be operated from 12vdc battery.

Applicable Publications:

NAVTRADEV P-4909, Operation and Maintenance Guide.

Reference Publications:

(Information not available)

Training Requirements Supported:

11-Series, 13-Series, and any user applications.

INDIVIDUAL



PORTABLE REMOTE-CONTROL DEMOLITION FIRING CONSOLE (GUNFIRE)

**DVC 21-03
3C72**



**TRAINING CATEGORY/LEVEL UTILIZED:
Individual/Level 3**

**EQUIPMENT REQUIRED,
NOT SUPPLIED:
None**

**SOURCE AND METHOD OF OBTAINING:
Available through local TSC**

**SPECIAL INSTALLATION
REQUIREMENTS:
None**

**PURPOSE OF TRAINER:
The device is designed to be used
in infiltration courses and to
support field training by
providing a fire control device for
electrical blasting caps.**

**POWER REQUIREMENTS:
Internal: 90 V DC
External: 110 V AC**

**PHYSICAL INFORMATION:
12" x 9" x 18"; 8 lbs.**

**PUBLICATIONS:
NAVEXOS P-1973,
Instructor's Guide
for Demolition Firing
Console, Device
3C72.**

WEAPONS



M15 AT MINE



Functional Description:

DVC-T 23-042, M15, is a full-scale plastic replica of the antitank mine.

Purpose of Trainer:

This inert device is used for classroom and outdoor instruction on the nomenclature and characteristics of the mine; the arming, handling, and functioning of the mine. It can also be used for minefield emplacement training.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

M19 AT MINE



Functional Description:

DVC-T 23-041, M19, is a full-scale plastic replica of an AT mine.

Purpose of Trainer:

This inert device is used for classroom and outdoor instruction on the nomenclature and characteristics of the mine; the arming, handling, and functioning of the mine. It can also be used for minefield emplacement training.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

DVC-T 23-041

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

M14 ANTIPERSONNEL MINE (DUMMY)



Functional Description:

DVC-T 23-038, M14, is a full-scale plastic replica of an antipersonnel mine that allows for arming procedures.

Purpose of Trainer:

This inert device is used for classroom and outdoor instruction on the nomenclature and characteristics of the mine; the arming, handling, and functioning of the mine. It can also be used for minefield emplacement training.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

DVC-T 23-038

Reference Publications:

Information not available

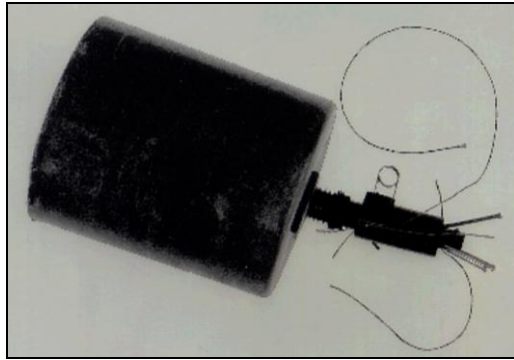
Source and Method of Obtaining:

Available through local TSC until current supplies are exhausted.

Logistic Responsible Command, Service, or Agency:

ATSC

M16A1 ANTIPERSONNEL PRACTICE MINE



Functional Description:

DVC-T 23-034 is a full-scale plastic replica of the M16A1 Antitank Mine with plastic fuze and wrench.

Purpose of Trainer:

The device is used for classroom and outdoor instruction on the mine characteristics and nomenclature; the arming, handling, and functioning of the mine; and can also be used for minefield emplacement training.

Physical Information:

A box of M16A1 Mines consists of:

- 4 Practice AP M16A1 Mines
- 4 Practice fuzes M605
- 1 Spool Assembly
- 1 M25 Fuzing Mine Wrench

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

ARTEP Task No:	SM Task No:
6-36 7-4	051-192-1002 051-192-1022
6-37 7-5	051-192-1012 051-192-1023
6-42 7-10	051-192-1021 051-192-1024
6-50 7-15	

DVC-T 23-034

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC until current supplies are exhausted.

Logistic Responsible Command, Service, or Agency:

ATSC

M21 ANTITANK PRACTICE MINE



Functional Description:

DVC-T 23-033 is a full-scale plastic replica of the M21 Antitank Mine with plastic fuze and wrench.

Purpose of Trainer:

The device is used for classroom and outdoor instruction on the mine characteristics and nomenclature; the arming, handling, and functioning of the mine; and can also be used for minefield emplacement training.

Physical Information:

- A box of M21 Mines consists of:
 - 4 Practice AT M21 Mines
 - 4 Practice M607 fuzes
 - 4 Practice AT MI 20 boosters
 - 2 Arming M26 wrenches
 - 4 Extension rods.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

DVC-T 23-033

Training Requirements Supported:

ARTEP Task No:	SM Task No:
6-36 7-4	051-192-1008 051-192-1022
6-37 7-5	051-192-1018 051-192-1023
6-42 7-10	051-192-1021 051-192-1024
6-50 7-15	

Applicable Publications:

Information not available

Reference Publications:

Information not available

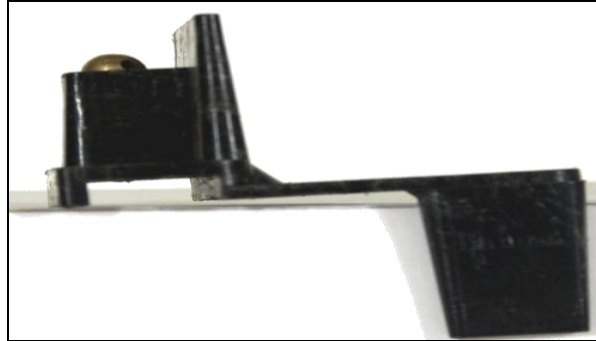
Source and Method of Obtaining:

Available through local TSC until current supplies are exhausted.

Logistic Responsible Command, Service, or Agency:

ATSC

M16A2 RIFLE BRASS DEFLECTOR



Functional Description:

DVC-T 23-030B, M16A2, Rifle Brass Deflector, is a palm size plastic device designed to deflect expended M16 brass downward from the marksman. The device snaps securely into the hole in the top of the carrying handle by means of a bullet catch. It is a low cost, durable, lightweight device which can be rapidly inserted and removed from the weapon.

Purpose of Trainer:

The M16 Rifle Brass Deflector protects the left-handed marksman from being struck by heated expended brass.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

DVC-T 23-030B

Source and Method of Obtaining:

Available through local TSC

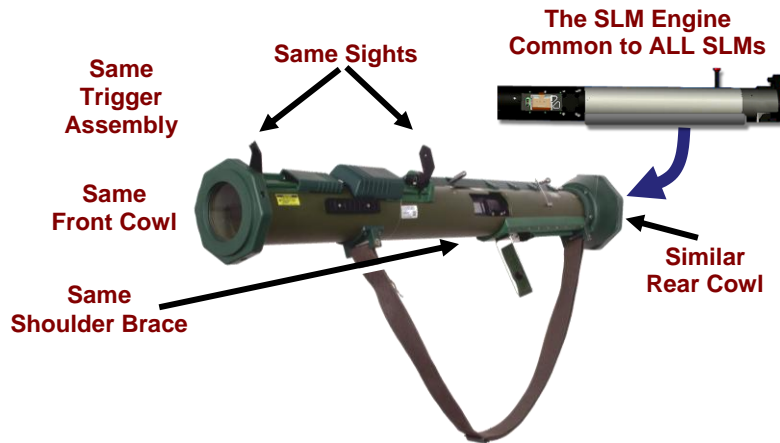
Logistic Responsible Command, Service, or Agency:

ATSC

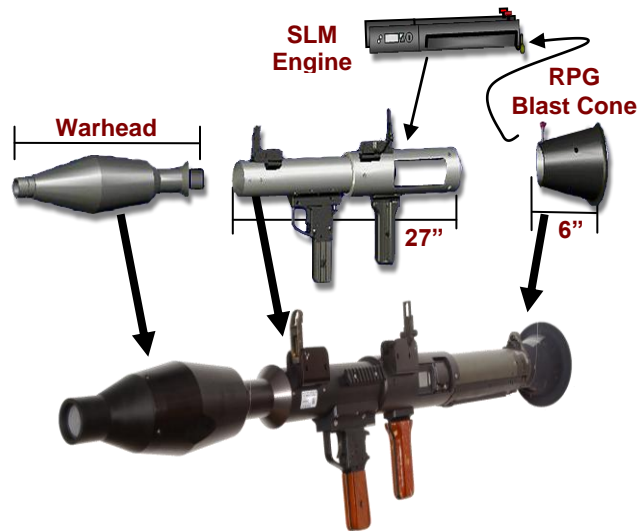
MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES) SHOULDER LAUNCHED MUNITIONS (SLM)

NSN 6920-01-568-4494
NSN 6920-01-568-3181
NSN 6920-01-568-3183

DVC 23-102/A (MILES), (SLM), AT4 VISMOD
DVC 23-102/B (MILES), (SLM), RPG7 VISMOD
DVC 23-102/C (MILES), (SLM), Engine Assembly



AT4



RPG7

Training Category/Level Utilized:
Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:
PEO STRI, PM Field OPS

Source and Method of Obtaining:
Available through local TSC.

Purpose of Trainer:

The device is a component of the Multiple Integrated Laser Engagement System (MILES). MILES is a family of training systems which simulate the effects of direct-fire weapons at their operational ranges and operate in a fully integrated tactical training environment. MILES provides the capability for two-sided, real-time tactical engagement for realistic casualty assessments. Firing the weapon simulators is much like firing the actual weapons. However, instead of firing live ammunition, these simulators transmit harmless laser beams. To allow the simulation to be as real as possible the missiles use weapons effect simulators to simulate the noise, blast, and smoke of the actual weapons.

Functional Description:

AT4 Description

The SLM systems are stand alone and operationally similar devices used by soldiers during force-on-force exercises. The SLM trainer used to simulate the AT4 is the most realistic of the systems and is shown above. When activated by placing it on one's shoulder and firing the trigger, it transmits a laser message which simulates the firing of a missile. It also can activate a pyrotechnic cue to simulate the back blast. It is powered from either an alkaline or Lithium magnesium 9 volt transistor style battery. The Pyrotechnic used for this simulation is the previously qualified M22.

RPG7 Description

The SLM representing the RPG7 is shown below. While its similarity to an actual weapon is less than the AT4 version, it looks very much like an actual weapon including a removable warhead. Like the AT4, it transmits a laser optical message and can trigger the same pyrotechnic device.

SLM Engine ASSY Description

The SLM Engine ASSY transmits a laser message which simulates the firing of a missile. It also can activate a pyrotechnic cue to simulate the back blast. It is powered from either an alkaline or Lithium magnesium 9 volt transistor style battery. The Pyrotechnic used for this simulation is the previously qualified M22.

Physical Information:

Transit Case is 43" L, 25" W, 12" H, 98 lbs
Each transit case contains 3 AT4 launchers

Equipment Required, Not Supplied:

ATWESS Cartridges

Special Installation Requirements:

None

Power Requirements:

9 vdc

Applicable Publications:

TM 9-6920-3692-10
TM 9 6920-3692-24&P

Reference Publications:

Infantry Manuals

Training Requirements Supported:

MOSC 11B, 19D

DVC 17-275A
NSN 1265-01-534-9862

**UNITECH/MULTIPLE INTEGRATED LASER ENGAGEMENT
SYSTEM (MILES) MICRO CONTROLLER DEVICE (MCD)
INDICATOR SIMULATOR SYSTEM, LASER**



Functional Description:

The MILES MCD will be used to support:

- a. Lab and field testing of MILES target systems.
- b. Player/Equipment preparation for force-on-force or force-on-target exercises.
- c. Player training of MILES systems.

Purpose of Trainer:

The purpose of the trainer is to replace the Basic MILES controller devices at Home Stations and Maneuver Combat Training Center Centers Army wide. The MILES Micro Controller Device performs the following:

- a. Transmit the universal kill, reset, resurrect, and near miss sequence code for a maximum range of 5 meters IAW the MILES Communication Code standard except the Player Identification (PID) and ammunition type shall not be transmitted.
- b. Provides a visual indication of the laser transmit.

Physical Information:

Transit case: 22" L x 25.4" W x 13.8" H - two-person lift transit case (48 per case).
The MCD's are shipped with 24 UCD per case.

Equipment Required, Not Supplied:

N/A

Special Installation Requirements:

None

DVC 17-275A
NSN 1265-01-534-9862

Power Requirements:

MCD contains one replaceable CR-2032 battery.

Training Category/Level Utilized:

Armor/Level 3

Training Requirements Supported:

ARTEPs: 7-15, 15-55, 71-2

MOSCs: 11B, 11Z, 19D, 19E, 19Z

Applicable Publications:

TM 9-6920-3682-10

SMM 9-6920-3682-24&P

Reference Publications:

None

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

DVC 17-275
NSN 1265-01-534-9871

**UNITECH/MULTIPLE INTEGRATED LASER ENGAGEMENT
SYSTEM (MILES), UNIVERSAL CONTROLLER DEVICE (UCD)
INDICATOR SIMULATOR SYSTEM, LASER**



Functional Description:

The MILES UCD is a lightweight device carried in a standard M-12 service holster and is fully compatible with the MILES Communication Code Standard. It contains a mounting rail that is compatible with MIL-STD-1913 for attaching a supplemental sighting device. The UCD is used to remotely set and control TES weapons effects, TES devices, and the soldier in training.

Purpose of Trainer:

The purpose of the trainer is to replace the Basic MILES controller devices at Home Stations and Maneuver Combat Training Center Centers Army wide. The MILES Universal Controller (UCD) Device performs the following:

- a. Transmit all MILES Codes for a maximum range of greater than 100 meters with special function outputs to 500 meters [Kill, Near Miss, Reset, Resurrect, time sync] to approximately 500 meters.
- b. Expanded decode functions for system checks and fault isolation.
- c. Lab and field testing of MILES target systems.
- d. Player/Equipment preparation for force-on-force or force-on-target exercises.

Physical Information:

Transit case: 22" L x 25.4" W x 13.8" H - two-person lift transit case (24 per case).

Equipment Required, Not Supplied:

N/A

Special Installation Requirements:

None

DVC 17-275
NSN 1265-01-534-9871

Power Requirements:

The UCD contains two replaceable AA batteries.

Training Category/Level Utilized:

Armor/Level 3

Training Requirements Supported:

ARTEPs: 7-15, 15-55, 71-2

MOSCs: 11B, 11Z, 19D, 19E, 19Z

Applicable Publications:

TM 9-6920-3682-10

SMM 9-6920-3682-24&P

Reference Publications:

None

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES) MK-19 SIMULATION PLAYER UNIT (SPU)

NSN 6920-01-543-0355



MK-19 Simulation Player Unit (SPU)

DVC 23-98/1 Smart Controller Gun (SCG)



Smart Controller Gun (SCG)

Training Category/Level Utilized:

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The MK-19 SPU system supports realistic combat training exercises without using live ammunition. It provides a common approach for the Stryker Remote Weapon Station, M113 pintle mount, AAV, HMMWV and ground mount. The MK-19 SPU system consists of a Laser Module, Operator Module, Audio Cue Device (ACD), and Trigger Assembly. The MK-19 Simulation Player Unit incorporates a modular design resulting in an interoperable solution simulating the firing and actual effects of a MK-19 in a MILES environment.

The SCG provides MILES equipment control and set-up. It allows the Observer Controller to kill, reset, and resurrect individuals or vehicles that have been "killed" during an exercise. The SCG also provides the controller with selectable features: four ammo types along with their unique ballistic characteristics, accurate time of flight (TOF) simulation based on range and ammo type selected, compensation for super elevation due to ammo ballistics, and an integrated detection system for casualty assessment.

Functional Description:

MK-19 SPU: The Laser Module emits visible flash cues and an invisible (infrared) laser beam toward a target. A blue LED Laser Firing Indicator located on the rear of the Laser Module provides the gunner with a visible indication the laser has fired. A target is outfitted with a detector assembly that senses the laser beam from the Laser Module to cause a target KILL or NEAR MISS.

The SCG sends laser codes to the detector module on MILES equipment. It also lets the Observer Controller reset MILES equipment, configure players, and verify operational status of MILES equipment. The SCG is easy to use and ergonomically friendly. The shape resembles a 9mm handgun. User controls consist of a finger activated trigger for quick laser firing and simple switch panel with three keys; Up, Down and Enter for quick MILES code selection.

Physical Information:

The MK-19 SPU has the following features: independent casualty assessment, programmable lethality using the smart controller gun, rechargeable battery for power source, built-in optical alignment, easy boresight verification, 20 hrs of alignment retention and a lighted display for real time information to the user.

The SCG has the following features: MILES laser encoding/decoding functions, 904 nm laser operating frequency, Pre-aligned sights, Blue LED at the back of SCG indicates transmission of code or firing of the device, Backlit LCD shows laser transmission status and MILES code data received from laser transmitter, Laser detector for incoming MILES codes detection, Rugged aluminum housing for all-weather use, Single 3.6 V AA battery power source for easy replacement (approx 1 year operating life

with normal use), Sleep mode after 10 second non-use for power saving, and IRDA port for software reprogramming and player download.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

(Information not available)

Applicable Publications:

(Information not available)

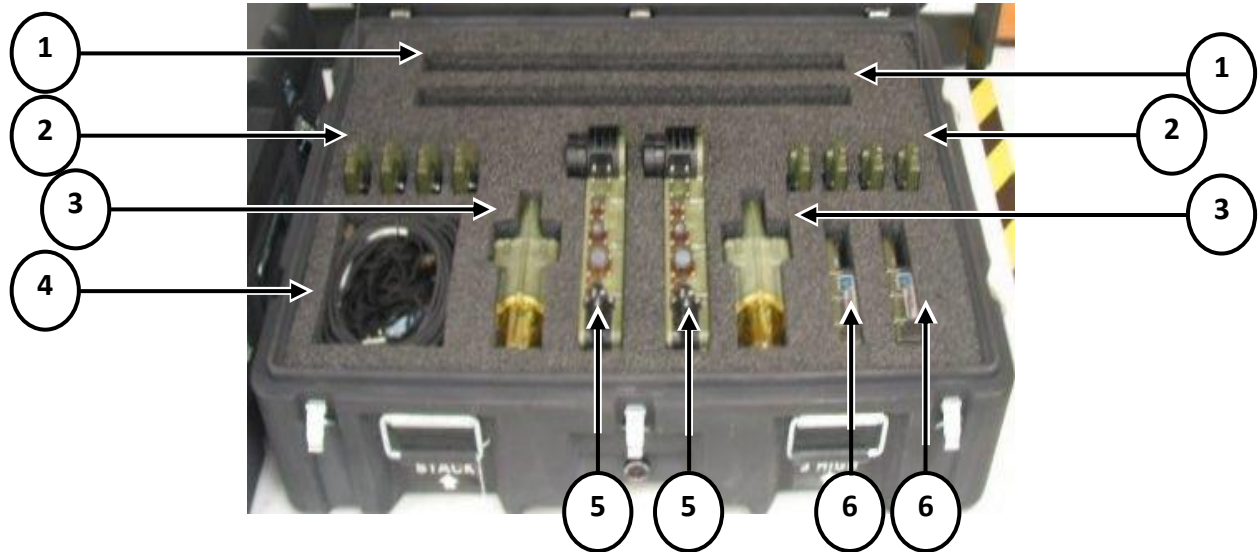
Reference Publications:

(Information not available)

Training Requirements Supported:

(Information not available)

WIRELESS INDEPENDENT TARGET SYSTEM (WITS) 915 MHz, MINE RESISTANT AMBUSH PROTECTED (MRAP) VERSION 26



1. Mast Assembly (TBD – underdevelopment will be supplied at later date) 2 each
2. Wireless Detector Modules (WDM) 8 each
3. Strobe Module 2 each
4. Universal Power Cables 2 each and Dome Light Power Cable 2 each
5. Power Module 2 each
6. Remote Display Module (RDM) 2 each
- *7. WITS Transit & Storage Container Case (*Item drawing number for case not shown) 1 each

Training Category/Level Utilized:

Combined Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The purpose of the MILES WITS device is to train battalion task forces in Force-on-Force (FoF) exercises at home station, and the Combat Training Centers (CTCs). The 915MHz MRAP WITS links to the Combat Vehicle System (CVS) Small Arms Transmitter (SAT) .50cal type. MILES WITS enable soldiers to make then correct mistakes and therefore help reduce casualties in actual combat. It is comprised of a set of wireless detector modules (WDM) that gather and route laser-based data and information to the WITS Remote Display Module (WITS RDM). The system also comprises a kill indicator assembly by way of Strobe Module which flashes to give an indication the player has been engaged. The Strobe Module energy source is driven by a separately detached battery operated Power Module. The subsystems that make up the WITS are connected using industry standard networking technologies hardware. The software is an amalgamation of Commercial-off-the-shelf products (COTS) and WITS product-unique applications.

Functional Description:

The 915MHz MRAP WITS system mounts on any of the various tactical vehicles. It operates in a (MILES) environment in FoF live training areas. The 915MHz MRAP WITS links the SAT to the WITS. The WITS system provides the following functions over and above that of the Basic MILES system it is replacing: Player Identification (PID), fratricide identification,

multiple levels of kill and vulnerability due to direction of attack. It accommodates new weapons, ammunition, and weapons performance.

Physical Information:

WITS Training Device:
Transit Case: 38.5 x 25 x 13, (L x W x H)
65 lbs. Measured in inches not cm. 2ea WITS per Case.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

Cell Batteries

Applicable Publications:

SMM 9-6920-3693-24&P (Maintenance)
TM 9-6920-3693-10 (Operator)

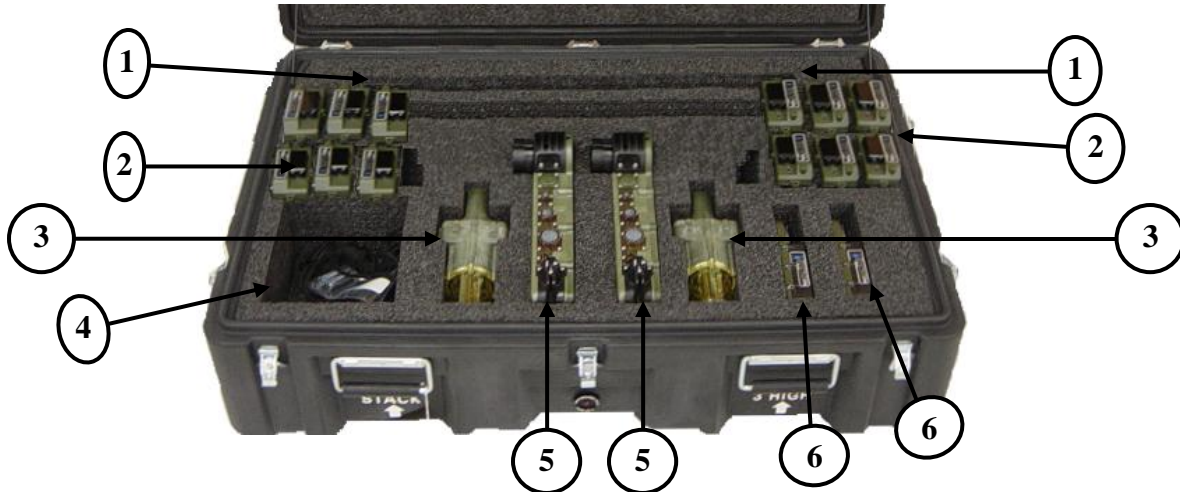
Reference Publications:

None

Training Requirements Supported:

ARTEPs 7-15, 17-55, 71-2
MOSCs 11B, 11Z, 19D, 19E, 19Z

WIRELESS INDEPENDENT TARGET SYSTEM (WITS) M113 KIT (915 MHz)



Training Category/Level Utilized:

Engineer/Level 1

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The WITS M113 KIT system is capable of operating in a (MILES) environment in force-on-force live training areas. The WITS M113 KIT system is capable of providing the following functions over and above that of the Basic MILES system it is replacing: Player Identification (PID), fratricide identification, multiple levels of kill and vulnerability due to direction of attack. The WITS M113 KIT provides additional detectors to support the M113 Armored Personnel Carrier (APC). New weapons, ammunition, and weapon performance will be accommodated.

Functional Description:

The MILES WITS program trains Active Duty and Reserve battalion task forces in Force-on-Force (FoF) exercises at home station, and the Combat Training Centers (CTCs). The MILES WITS program detects the direct fire effects and simulates signature effects of actual weapon systems primarily during FoF exercises from squad through brigade level (i.e. engage committed forces, Military Operations in Urban Terrain (MOUT), special operations, mobility, and counter mobility). By providing these capabilities in a training environment MILES WITS enable soldiers to make, then correct mistakes and therefore help reduce casualties in actual combat. It is comprised of a set of wireless detector modules (WDM) that gather and route laser-based data and information to the WITS Remote Display Module (WITS RDM). The system also comprises a kill indicator assembly by way of Strobe Module which flashes to give an indication the player has been engaged. The Strobe Module energy source is driven by a separately detached battery operated Power Module. The subsystems that make up the WITS are connected using industry standard networking technologies and processing hardware. The software is an amalgamation of Commercial-off-the-shelf products (COTS) and WITS product-unique applications.

Physical Information:

Note: each case contains 2ea WITS M113 Kits

1. Mast Assembly (TBD – underdevelopment will be supplied at later date) 2 each
2. Wireless Detector Modules (WDM) 12 each
3. Strobe Module 2 each
4. Universal Power Cables 2 each
4. Dome Light Power Cable 2 each

5. Power Module 2 each

6. Remote Display Module (RDM) 2 each

*7. WITS Transit & Storage Container Case (*Item drawing number for case not shown) 1 each

Equipment Required, Not Supplied:

(Information not available)

Special Installation Requirements:

None

Power Requirements:

(Information not available)

Applicable Publications:

TM Number TBD

Reference Publications:

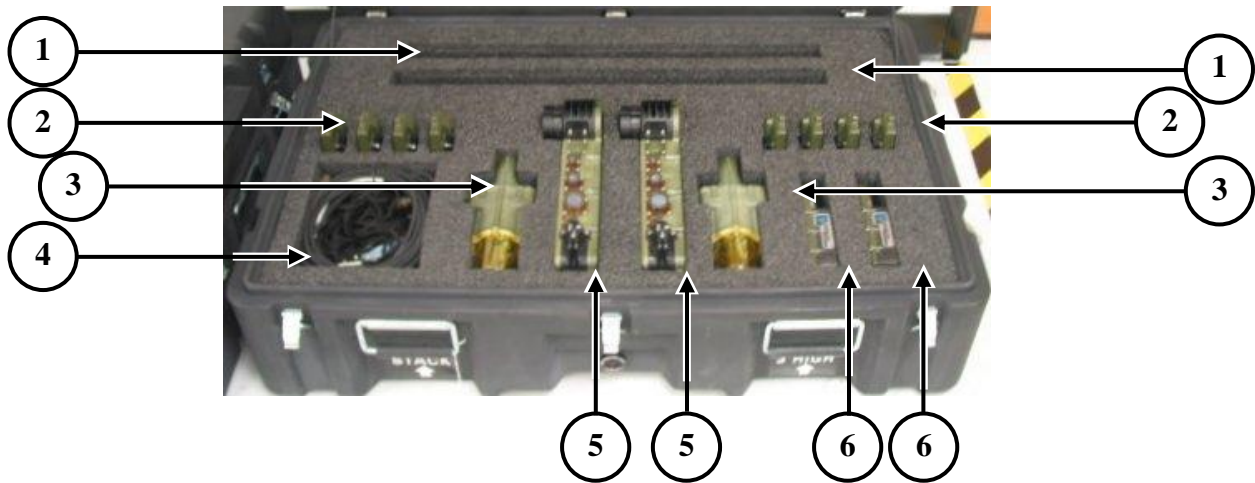
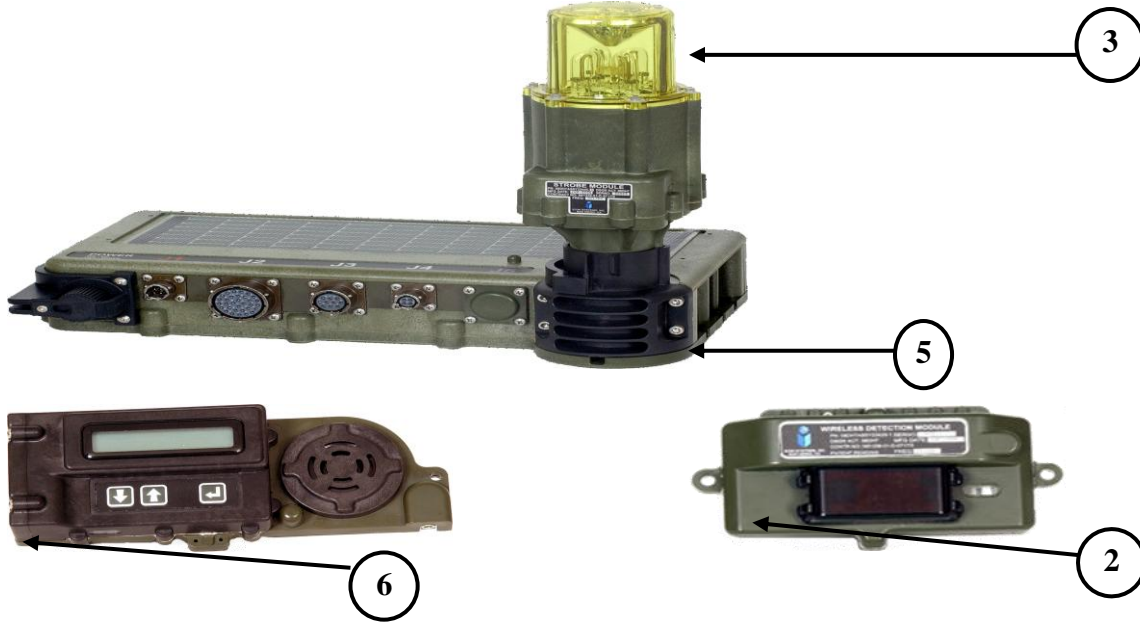
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Training Requirements Supported:

MOSC 11B, 11Z, 19D, 19K, 19Z

WIRELESS INDEPENDENT TARGET SYSTEM (WITS) BASIC KIT (915 MHz)

Picture of WITS outside of the storage case.



- 1. Mast Assembly (TBD – underdevelopment will be supplied at later date) 2 each
- 2. Wireless Detector Modules (WDM) 8 each
- 3. Strobe Module 2 each
- 4. Universal Power Cables 2 each
- 4. Dome Light Power Cable 2 each
- 5. Power Module 2 each
- 6. Remote Display Module (RDM) 2 each
- *7. WITS Transit & Storage Container Case (*Item drawing number for case not shown) 1 each

Training Category/Level Utilized:
Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:
PEO STRI

Source and Method of Obtaining:

Available through local Training Support Center (TSC)

Purpose of Trainer:

The Purpose of this trainer is to replace Basic MILES systems at home-station due to age of technology and cost to maintain.

The WITS is a component of the Multiple Integrated Laser Engagement System (MILES)

The MILES system is primarily used for force-on-force training from squad up to and including Brigade level. The system incorporates an After Action Review capability not in the Basic MILES, which greatly enhances training for the soldiers participating in the exercises. The WITS equipment is downward compatible with the Basic MILES equipment presently fielded.

Functional Description:

The WITS can be mounted on tactical vehicles, trailers and even bridges. It is designed to support all noncombat tactical vehicles and other items that are not involved in the direct combat scenario.

Physical Information:

WITS Training Devices

Transit case dimensions:

38.5 x 25 x 13

(L x W x H), 65 lbs.

Measured in inches not cm.

(2ea WITS Kits per case)

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

Vehicle Power

Applicable Publications:

SMM 9-6920-3693-24&P

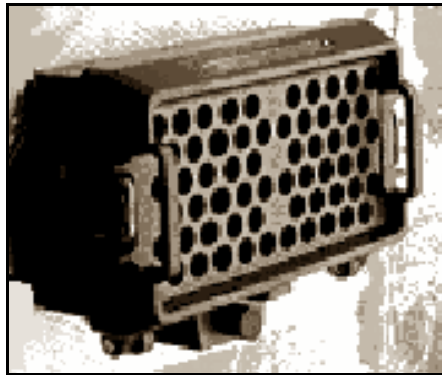
Reference Publications:

None

Training Requirements Supported:

MOSCs 11B, 11Z, 19D, 19K, 19Z

**MAIN GUN SIGNATURE SIMULATOR (MGSS)
(MILES 2000) SYSTEM**



Functional Description:

The MGSS is mounted on the M1A1/M1A2 tank and simulates the main gun firing. The MGSS holds 60 pyrotechnics when fully loaded and is “keyless” for safety. When the main gun trigger is activated a signal goes to the MGSS and fires 1 pyrotechnic for each firing. The pyrotechnic creates the flash and bang of the main gun, triggering the Universal Laser Transmitter (ULT).

Purpose of Trainer:

The Purpose of this trainer is to replace Basic MILES systems at home-station due to age of technology and cost to maintain. The MGSS is a component of the Multiple Integrated Laser Engagement System 2000 (M2K). The M2K is a family of training systems which simulate the effects of direct-fire weapons at their operational ranges. The M2K system is primarily used for force-on-force training from squad up to and including Brigade level. The M2K system incorporates a After Action Review capability not in the Basic MILES, which greatly enhances training for the soldiers participating in the exercises. M2K equipment is downward compatible with the Basic MILES equipment presently fielded.

Physical Information:

MGSS Launcher
Interface Cable
Transit case dimensions: 46.3" L x 40.7" W x 17.5" H
(1 MGSS Kits per case)

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

Vehicle power

DVC 23-92

Training Category/Level Utilized:

Combat Arms/Level 3

Training Requirements Supported:

ARTEPs 7-15, 17-55, 71-2

MOSCs 11B, 11Z, 19D, 19E, 19Z

Applicable Publications:

9-6920-892-10

Reference Publications:

None

Source and Method of Obtaining:

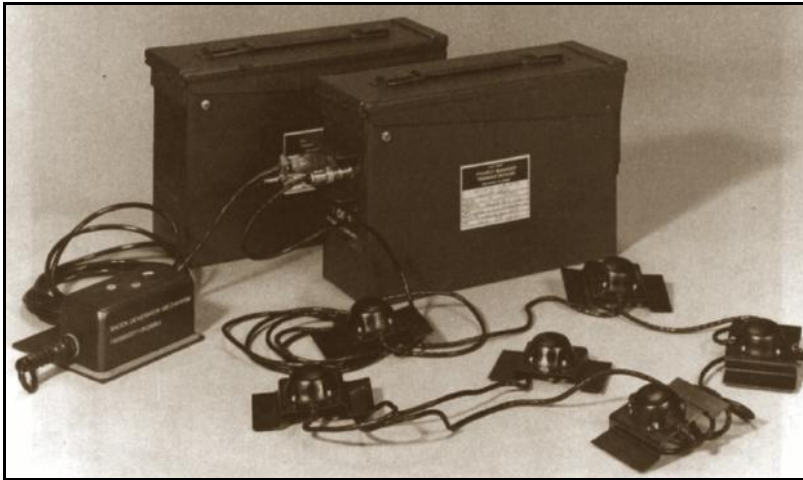
Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

DVC 23-91, 23-91A
NSN 1265-01-221-9438

INDICATOR, SIMULATOR SYSTEM, LASER TARGET INTERFACE DEVICE (LTID)



Functional Description:

LTID is comprised of a Detection Assembly, an Electronic Assembly, and a Shock Generator Mechanism (SGM). The Detection Assembly simulates target vulnerability using six detectors fastened with Velcro to the target. The Electronic Assembly contains the detector amplifier, decoder, SGM activation electronics, and two standard 6-volt lantern batteries. The SGM activates the target lift mechanism when a "hit" is decoded. In operation, a MILES transmitter-equipped weapon engages an LTID-equipped target, the Detection Assembly receives the transmitter laser signal, converts it to electrical pulses, and routes them to the Electronic Assembly where they are amplified and decoded. If a "hit" is decoded, the SGM triggers the target lift mechanism to lower the target. DVC 17-146A has been assigned to LTIDs modified for use during APACHE MILES training.

Purpose of Trainer:

The Laser Target Interface Device (LTID) interfaces existing live-fire tank/man target mechanisms with standard MILES transmitters enabling the transmitters to knock down targets. LTID provides realistic and valuable marksmanship training without the high cost of ammunition and target repair/replacement encountered in live-fire training programs.

Physical Information:

Number of Pieces: Four
Electronics Assembly: 11" x 4" x 7"
Storage Case, containing: 11" x 4" x 7"
Detection Assembly: 8" x 4" x 2" (packaged)
SGM: 6" x 6" x 3" (packaged)
Total Weight: 9 lb

Equipment Required, Not Supplied:

Batteries, 6-volt, BA-200/U
Velcro, 11749428

DVC 23-91, 23-91A
NSN 1265-01-221-9438

Equipment Required, Not Supplied:

Primer, 11749034
Roller, Hand, 6523520
Controller Gun, 11748811
Target Holding Mechanisms
MILES Transmitters

Special Installation Requirements:

None

Power Requirements:

Two standard 6-volt lantern batteries

Training Category/Level Utilized:

Armor/Level 3

Training Requirements Supported:

Information not available

Applicable Publications:

TM 9-1265-376-10, - Operator's Manual for Indicator Simulator System, Laser Target Interface Device (LTID)

Reference Publications:

None

Source and Method of Obtaining:

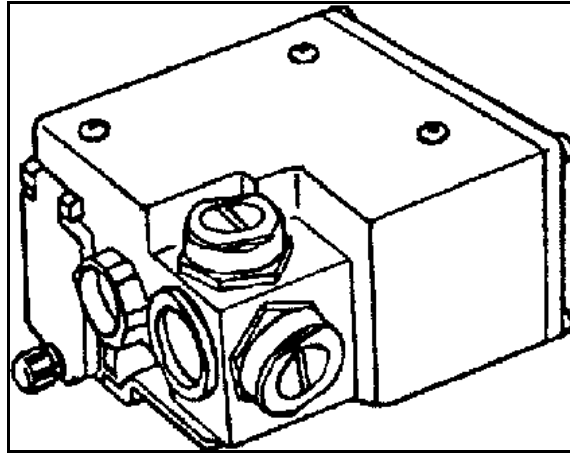
Available through local TSC

Logistic Responsible Command, Service, or Agency:

ACALA

DVC 07-56/14
NSN 1265-01-236-6724

**SIMULATOR SYSTEM, FIRING, LASER:
M90 FOR SQUAD AUTOMATIC WEAPON (SAW)**



Functional Description:

The MILES family, consisting of 18 fielded distinct weapon firing simulator systems, employs eye-safe lasers and microelectronics to realistically simulate the firing capabilities of rifles, machine guns, and other direct-fire weapons. Small battery-operated laser transmitters, which attach easily to conventional field weapons, allow ground troops to fire coded (to distinguish range and killing power of specific weapons) invisible laser pulses instead of live ammunition. Receiving detectors, located on opposing troops and vehicles, pick up the laser pulses and instantly provide audio/ visual indications of a kill, hit, or near miss. Kill indicators on men or vehicles will disable the victim's weapon. The hit and kill probabilities are similar to those achieved when using live ammunition.

The M90 Simulator System for M249 SAW consists of a small arms laser transmitter mounted on the barrel of the weapon, a man-worn detector assembly installed on a load-carrying harness, and a strap which fits over a standard issue steel helmet. When a laser beam from a transmitter strikes a detector, an alarm located near the soldier's left ear informs him when he has suffered a "near miss" or that he has been "killed". If the soldier is killed the alarm will be continuous. To shut off the alarm, the soldier must remove a key from his transmitter and put it into a receptacle on his load carrying harness. With the key removed from the transmitter, the laser transmitter will not operate. Removing the weapon capability to fire simulates a combat casualty.

Purpose of Trainer:

The device is a component of the Multiple Integrated Laser Engagement System (MILES). MILES is a family of training systems which simulate the effects of direct-fire weapons at their operational ranges and operate in a fully integrated tactical training environment. MILES provides the capability for two-sided, real-time tactical engagement at unit sizes up to battalion and for realistic casualty assessments.

Firing the weapon simulators is much like firing the actual weapons. However, instead of firing live ammunition, these simulators transmit harmless laser beams. To allow the simulation to be as real as possible, the rifle and machine guns use blank ammunition,

DVC 07-56/14
NSN 1265-01-236-6724

Purpose of Trainer:

and the missiles and main guns use weapons effect simulators to simulate the noise, blast, and smoke of the actual weapons. The specific training requirements supported are shown following the descriptive data.

Physical Information:

Transit case: 29" x 22" x 28"

Equipment Required, Not Supplied:

Battery, BA 3090 (9v, transistor)
Firing attachment, blank ammunition, M15A2
Cartridge, 5.56mm blank, M200

Special Installation Requirements:

None

Power Requirements:

9vdc

Training Category/Level Utilized:

Combat Arms/Level 3

Training Requirements Supported:

ARTEPs Supported
7-15 17-55 71-2
MOSC 11B, 11Z, 19D, 19E, and 19Z
SM Tasks
All tactical tasks for skill levels 1 through 5.

Applicable Publications:

TM 9-1265-211-10

Reference Publications:

TM 9-1005-201-10
TM 9-1005-319-10

Source and Method of Obtaining:

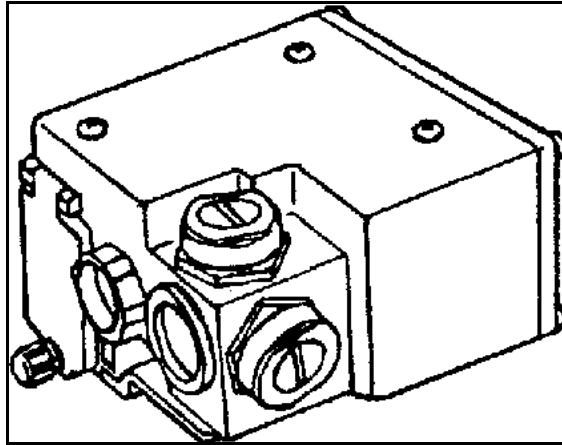
Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

DVC 07-56/13
NSN 1265-01-236-6725

**SIMULATOR SYSTEM, FIRING, LASER:
M89 FOR M16/M16A2 RIFLE**



Functional Description:

The MILES family, consisting of 18 fielded distinct weapon firing simulator systems, employs eye-safe lasers and microelectronics to realistically simulate the firing capabilities of rifles, machine guns, and other direct-fire weapons. Small battery-operated laser transmitters, which attach easily to conventional field weapons, allow ground troops to fire coded (to distinguish range and killing power of specific weapons) invisible laser pulses instead of live ammunition. Receiving detectors, located on opposing troops and vehicles, pick up the laser pulses and instantly provide audio/ visual indications of a kill, hit, or near miss. Kill indicators on men or vehicles will disable the victim's weapon. The hit and kill probabilities are similar to those achieved when using live ammunition.

The Simulator System for M16A1/M16A2 Rifle consists of a small arms laser transmitter mounted on the barrel of the weapon, a man-worn detector assembly installed on a load-carrying harness, and a strap which fits over a standard issue steel helmet. When a laser beam from a transmitter strikes a detector, an alarm located near the soldier's left ear informs him when he has suffered a "near miss" or that, he has been "killed". If the soldier is killed the alarm will be continuous. To shut off the alarm, the soldier must remove a key from his transmitter and put it into a receptacle on his load carrying harness. With the key removed from the transmitter, the laser transmitter will not operate. Removing the weapon capability to fire simulates a combat casualty.

Purpose of Trainer:

The device is a component of the Multiple Integrated Laser Engagement System (MILES). MILES is a family of training systems which simulate the effects of direct-fire weapons at their operational ranges and operate in a fully integrated tactical training environment. MILES provides the capability for two-sided, real-time tactical engagement at unit sizes up to battalion and for realistic casualty assessments.

Firing the weapon simulators is much like firing the actual weapons. However, instead of firing live ammunition, these simulators transmit harmless laser beams. To allow the

DVC 07-56/13
NSN 1265-01-236-6725

Purpose of Trainer:

simulation to be as real as possible, the rifle and machine guns use blank ammunition, and the missiles and main guns use weapons effect simulators to simulate the noise, blast, and smoke of the actual weapons. The specific training requirements supported are shown following the descriptive data.

Physical Information:

Transit case: 29" x 22" x 28"

Equipment Required, Not Supplied:

Battery, BA 3090 (9v, transistor)
Firing attachment, blank ammunition, M15A2
Cartridge, 5.56mm blank, M200

Special Installation Requirements:

None

Power Requirements:

9vdc

Training Category/Level Utilized:

Combat Arms/Level 3

Training Requirements Supported:

ARTEPs Supported
7-15 17-55 71-2

MOSC 11B, 11Z, 19D, 19E, and 19Z

SM Tasks

All tactical tasks for skill levels 1 through 5.

Applicable Publications:

TBD

Reference Publications:

TBD

Source and Method of Obtaining:

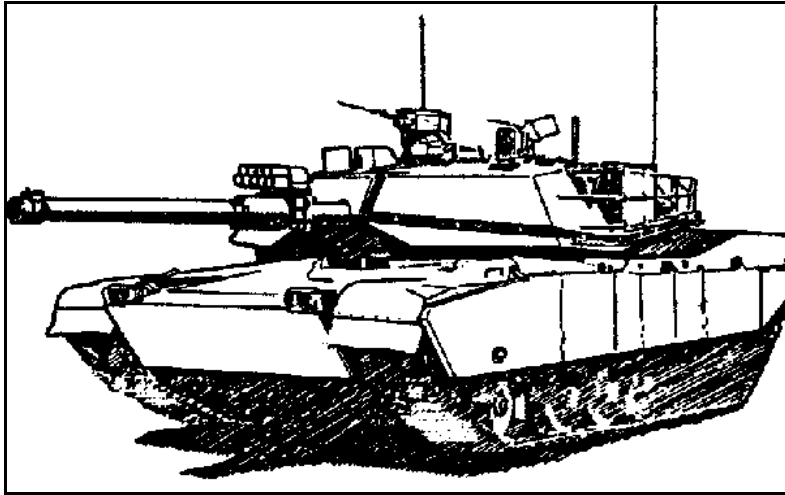
Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

DVC 07-56/12
NSN 1265-01-137-7697

**SIMULATOR SYSTEM, FIRING, LASER:
M82 FOR M1 ABRAMS TANK**



Functional Description:

The MILES family, consisting of 18 fielded distinct weapon firing simulator systems, employs eye-safe lasers and microelectronics to realistically simulate the firing capabilities of rifles, machine guns, and other direct-fire weapons. Small battery-operated laser transmitters, which attach easily to conventional field weapons, allow ground troops to fire coded (to distinguish range and killing power of specific weapons) invisible laser pulses instead of live ammunition. Receiving detectors, located on opposing troops and vehicles, pick up the laser pulses and instantly provide audio/ visual indications of a kill, hit, or near miss. Kill indicators on men or vehicles will disable the victim's weapon. The hit and kill probabilities are similar to those achieved when using live ammunition.

In the M82 Simulator System for the M1 tank consists of three laser transmitters and a fire detection system. All weapons on the M1 are equipped with laser transmitters that are fired using normal operating procedures. Special detector belts on the vehicle's exterior sense opposing fire. Crewmembers wear torso and helmet harnesses that detect fire against them. A control console and flashing light are included.

Purpose of Trainer:

The device is a component of the Multiple Integrated Laser Engagement System (MILES). MILES is a family of training systems which simulate the effects of direct-fire weapons at their operational ranges and operate in a fully integrated tactical training environment. MILES provides the capability for two-sided, real-time tactical engagement at unit sizes up to battalion and for realistic casualty assessments.

Firing the weapon simulators is much like firing the actual weapons. However, instead of firing live ammunition, these simulators transmit harmless laser beams. To allow the simulation to be as real as possible, the rifle and machine guns use blank ammunition, and the missiles and main guns use weapons effect simulators to simulate the noise, blast, and smoke of the actual weapons. The specific training requirements supported are shown following the descriptive data.

DVC 07-56/12
NSN 1265-01-137-7697

Physical Information:

Transit Cases: 47.5" L x 40.5" W x 15.88" H

Equipment Required, Not Supplied:

Battery, BA 3090 (9v, transistor)

Battery, BA 200U (6v)

Special Installation Requirements:

None

Power Requirements:

9vdc

Training Category/Level Utilized:

Combat Arms/Level 3

Training Requirements Supported:

ARTEPs Supported

7-15 17-55 71-2

MOSC 11B, 11Z, 19D, 19E, and 19Z

SM Tasks

All tactical tasks for skill levels 1 through 5.

Applicable Publications:

TM 9-1265-373-10

Reference Publications:

TM 9-1005-213-10

TM 9-1005-313-10

TM 9-1005-314-12&P

TM 9-2350-255-10

Source and Method of Obtaining:

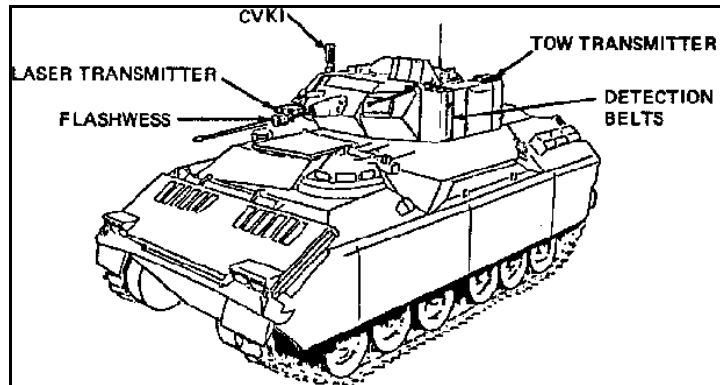
Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

DVC 07-56/10
NSN 1265-01-158-4560

**SIMULATOR SYSTEM, FIRING, LASER:
M83 FOR M2/M3 FIGHTING VEHICLE**



Functional Description:

The MILES family, consisting of 18 fielded distinct weapon firing simulator systems, employs eye-safe lasers and microelectronics to realistically simulate the firing capabilities of rifles, machine guns, and other direct-fire weapons. Small battery-operated laser transmitters, which attach easily to conventional field weapons, allow ground troops to fire coded (to distinguish range and killing power of specific weapons) invisible laser pulses instead of live ammunition. Receiving detectors, located on opposing troops and vehicles, pick up the laser pulses and instantly provide audio/ visual indications of a kill, hit, or near miss. Kill indicators on men or vehicles will disable the victim's weapon. The hit and kill probabilities are similar to those achieved when using live ammunition.

In the M83 Simulator System, all weapons on the M2 and M3 vehicles are equipped with laser transmitters that are fired using normal operating procedures. Special detector belts on the vehicle's exterior sense opposing fire. Crew members wear torso and helmet harnesses that detect fire against them. A control console and flashing light are included.

Purpose of Trainer:

The device is a component of the Multiple Integrated Laser Engagement System (MILES). MILES is a family of training systems which simulate the effects of direct-fire weapons at their operational ranges and operate in a fully integrated tactical training environment. MILES provides the capability for two-sided, real-time tactical engagement at unit sizes up to battalion and for realistic casualty assessments.

Firing the weapon simulators is much like firing the actual weapons. However, instead of firing live ammunition, these simulators transmit harmless laser beams. To allow the simulation to be as real as possible, the rifle and machine guns use blank ammunition, and the missiles and main guns use weapons effect simulators to simulate the noise, blast, and smoke of the actual weapons. The specific training requirements supported are shown following the descriptive data.

Physical Information:

Equipment: 52.25" L x 43.75" W x 15.88" H
TOW Tubes: 62.19" L x 25.25" W x 23.94" H

DVC 07-56/10
NSN 1265-01-158-4560

Equipment Required, Not Supplied:

Battery, BA 3090 (9v, transistor)
Battery, BA 200U (6v)

Special Installation Requirements:

None

Power Requirements:

9vdc

Training Category/Level Utilized:

Combat Arms/Level 3

Training Requirements Supported:

ARTEPs Supported

7-15 17-55 71-2

MOSC 11B, 11Z, 19D, 19E, and 19Z

SM Tasks

All tactical tasks for skill levels 1 through 5.

Applicable Publications:

TM 9-1265-375-10

Reference Publications:

TM 9-1005-313-10

TM 9-2350-252-10

TM 9-1005-316-12&P

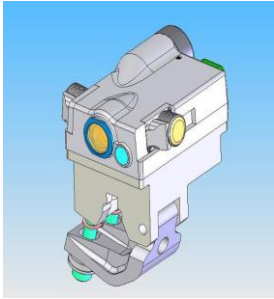
Source and Method of Obtaining:

Available through local TSC.

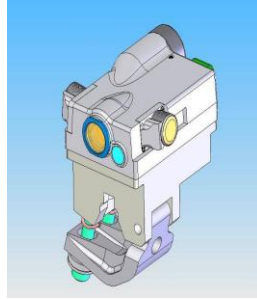
Logistic Responsible Command, Service, or Agency:

PEO STRI

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM, INDIVIDUAL WEAPONS SYSTEM (MILES IWS) SNIPER KIT



M107 SAT



M110 SAT



MILES IWS Halo



MILES IWS Harness

Training Category/Level Utilized:

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The MILES IWS Sniper Kit includes one M107 and one M110 Small Arms Transmitter, two MILES IWS Halos, two MILES IWS H Harnesses, and all associated support items of equipment (ASIOE). The purpose of this kit is to provide the Sniper Team with all the MILES IWS equipment needed by the sniper team to perform their MILES environment training mission.

Functional Description:

The sniper kit contains all MILES IWS equipment needed to perform the MILES environment training mission, and is used exactly as all other MILES IWS sets are used; the kit simply encases the MILES IWS equipment (M107 and M110 SAT, halos, and harnesses) so that the sniper team is properly equipped to perform the training mission in the MILES training environment. The M107 and M110 Small Arms Transmitters (SATs) are mounted on the operator's real world weapon, and the operator is outfitted with the MILES IWS harness and halo. The SAT on each weapon associates with the operator's harness and halo, and the operator is ready to align the SAT and proceed through the training scenario.

Physical Information:

M107 and M110 SAT Dimensions:

3.30"L X 2.00"W X 1.47"H

Weight: 22.7 oz.

Halo Dimensions:

31" Circumference x 3" Width

Weight: 7.2 oz.

Harness Dimensions:

39"L x 10.25"W

Weight: 38.4 oz.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

The M107 and M110 SAT uses a 3.6v Lithium battery

NSN: 6135-01-435-4921

The Halo uses a 3.6v lithium battery

NSN: 6135-01-435-4921

The Harness uses 2 each 3.0v Lithium batteries

NSN: 6135-01-351-1131

Applicable Publications:

The MILES IWS manuals:

23-6920-706-10

23-6920-706-24&P

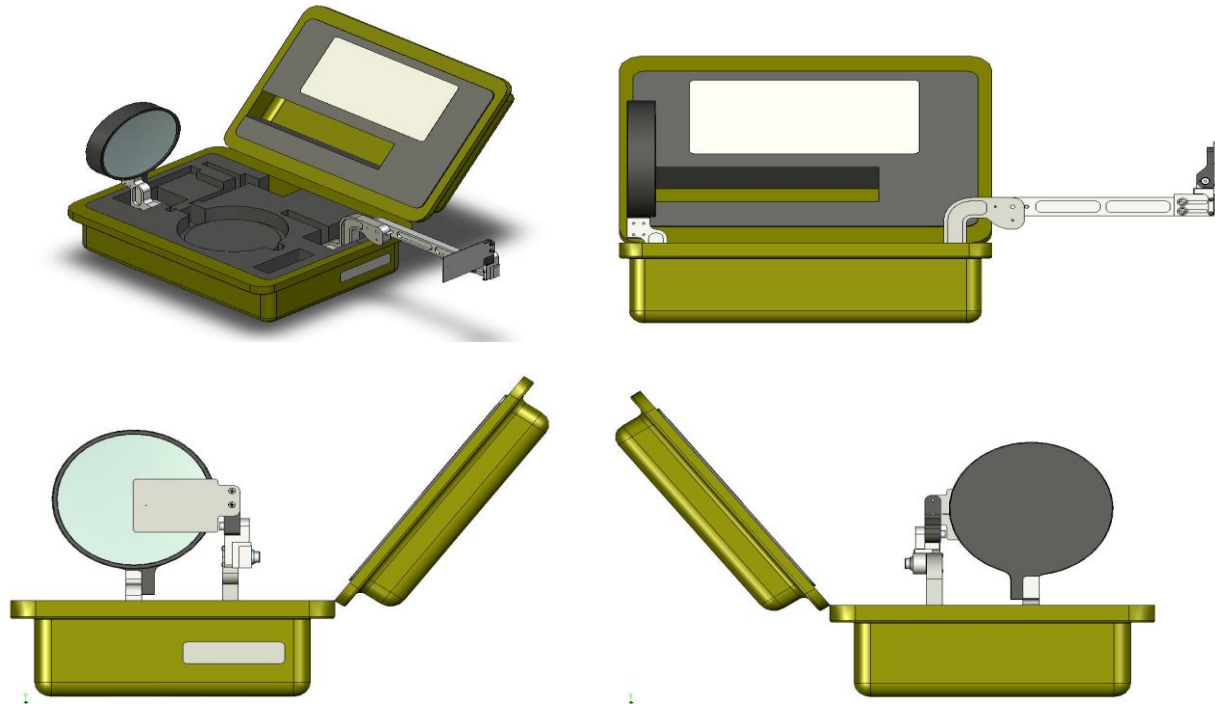
Reference Publications:

None

Training Requirements Supported:

This Set supports CTC rotational exercises, as well as other Force On Force training events.

MIRROR ALIGNMENT JIG KIT (MAJiK)



Training Category/Level Utilized:

Combat Arms Level/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The purpose of the trainer is to replace the current target sheet alignment method for all MILES-IWS SAT with MAJiK. The MAJiK is an ancillary aid device used to align the MILES IWS SAT laser to the soldier's weapon sight picture.

Functional Description:

The MAJiK is a mechanical device that employs a mirror to reflect the laser transmitter's visible alignment onto a target card that uses a crosshair as reference point. The setup and device allow the user to set his weapon's sight at an infinite range so that the laser transmitter unit is aligned with the weapon's sight at long distance for better weapon simulation accuracy.

Physical Information:

External: Transit case weighs 15 lbs and dimensions of 16.25'' (L) x 13'' (W) x 7'' (H). Internal: A mirror and extended arm with target card that fold down into the transit case.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Applicable Publications:

Operator Manual, Multiple Integrated Laser Engagement (MILES), Individuals Weapons System (IWS)
TM 23-6920-706-10

Maintenance Manual, Multiple Integrated Laser Engagement (MILES), Individuals Weapons System (IWS)
TM 23-6920-706-24&P

Operator Manual, Multiple Integrated Laser Engagement (MILES), Individuals Weapons System (IWS), Training Data
Transfer Device TM-23-6920-707-10,

Reference Publications:

(Information not available)

Training Requirements Supported:

Multiple Integrated Laser Engagement (MILES), Individuals Weapons System (IWS)

**MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM
INDIVIDUAL WEAPONS SYSTEM (MILES IWS)
M249 SQUAD AUTOMATIC WEAPON KIT, INSTRUMENTABLE**

**Training Category/Level Utilized:**

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC.

Purpose of Trainer:

The purpose of this trainer is to replace Basic MILES and MILES 2000 systems at home-station and the Combat Training Centers (CTCs) due to age of technology and cost to maintain. The major differences between MILES Individual Weapons Systems (MILES IWS) and predecessor devices is in battery selection; the use of 2.4GHz ZigBee to communicate between the vest and Small Arms Transmitter (SAT); the use of a red laser, alignment knobs, and reflective paper targets to align the SAT. Weight of the device is also reduced from earlier devices. The MILES IWS kits are instrumentable for use in instrumented ranges.

This device is a component of the Multiple Integrated Laser Engagement System Individual Weapons Systems (MILES IWS). MILES IWS is a family of training systems, which simulate the effects of direct-fire weapons at their operational ranges. MILES IWS is primarily used for force-on-force training from squad up to and include Brigade level.

Functional Description:

The MILES IWS consists of 6 fielded distinct weapon firing systems, employs eye-safe lasers and microelectronics to realistically simulate the firing capabilities of rifles, machine guns, and other direct-fire weapons. The laser firing SATs attach easily to conventional field weapons, allow ground troops to fired coded (to distinguish weapon type and player ID) laser signals. Soldiers fire blank ammunition, the "flash and bang" triggers the SAT. The receiving laser detectors determine, Hit, Near Miss,

or Kill status of received fire. If Killed, the receiving target disables the system preventing the "killed" player from firing his/her weapon.

Physical Information:

The Manworn Harness consists of an infrared detector array attached to a vest that contains a sound transmitting device and a Harness Control Unit (HCU). The HCU has a local Radio Frequency (RF) transceiver that allows it to communicate to the Small Arms Transmitter (SAT). The HCU receives encoded messages from the detectors.

The Halo consists of an electronic module and a set of infrared detectors mounted on a durable fabric. The Halo encircles the head providing 360 degrees coverage as a target. The Halo electronics receives encoded messages from the detectors and repeats the message to the Harness through embedded inductive loops.

The Small Arms Transmitter (SAT) is mounted on the barrel of personnel weapons and transmits MILES Laser messages to a target. When the Harness is killed, the SAT is automatically disabled.

Transit case dimensions:

37.3" (L) x 35.3" (W) x 17.5" (H)

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

SAT and Halo: ½ AA, 3.6v, lithium-thionyl chloride battery.

HCU: AA, 3.6v, lithium-thionyl chloride battery.

Applicable Publications:

TM 23-6920-706-10 - Operator Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS)

TM 23-6920-706-24 - Maintenance Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS)

TM 23-6920-707-10 - Operator Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS), Training Data Transfer Device (TDTD)

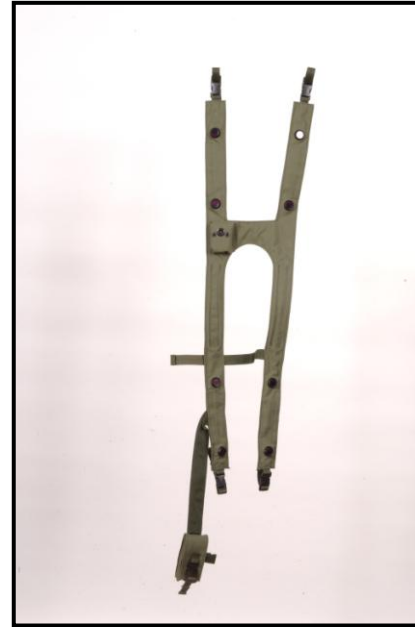
Reference Publications:

None

Training Requirements Supported:

(Information not available)

**MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM
INDIVIDUAL WEAPONS SYSTEM (MILES IWS)
M240 MACHINE GUN KIT, INSTRUMENTABLE**

**Training Category/Level Utilized:**

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC.

Purpose of Trainer:

The purpose of this trainer is to replace Basic MILES and MILES 2000 systems at home-station and the Combat Training Centers (CTCs) due to age of technology and cost to maintain. The major differences between MILES Individual Weapons Systems (MILES IWS) and predecessor devices is in battery selection; the use of 2.4GHz ZigBee to communicate between the vest and Small Arms Transmitter (SAT); the use of a red laser, alignment knobs, and reflective paper targets to align the SAT. Weight of the device is also reduced from earlier devices. The MILES IWS kits are instrumentable for use in instrumented ranges.

This device is a component of the Multiple Integrated Laser Engagement System Individual Weapons Systems (MILES IWS). MILES IWS is a family of training systems, which simulate the effects of direct-fire weapons at their operational ranges. MILES IWS is primarily used for force-on-force training from squad up to and include Brigade level.

Functional Description:

The MILES IWS consists of 6 fielded distinct weapon firing systems, employs eye-safe lasers and microelectronics to realistically simulate the firing capabilities of rifles, machine guns, and other direct-fire weapons. The laser firing SATs attach easily to conventional field weapons, allow ground troops to fired coded (to distinguish weapon type and player ID) laser signals. Soldiers fire blank ammunition, the "flash and bang" triggers the SAT. The receiving laser detectors determine, Hit, Near Miss,

or Kill status of received fire. If Killed, the receiving target disables the system preventing the “killed” player from firing his/her weapon.

Physical Information:

The Manworn Harness consists of an infrared detector array attached to a vest that contains a sound transmitting device and a Harness Control Unit (HCU). The HCU has a local Radio Frequency (RF) transceiver that allows it to communicate to the Small Arms Transmitter (SAT). The HCU receives encoded messages from the detectors.

The Halo consists of an electronic module and a set of infrared detectors mounted on a durable fabric. The Halo encircles the head providing 360 degrees coverage as a target. The Halo electronics receives encoded messages from the detectors and repeats the message to the Harness through embedded inductive loops.

The Small Arms Transmitter (SAT) is mounted on the barrel of personnel weapons and transmits MILES Laser messages to a target. When the Harness is killed, the SAT is automatically disabled.

Transit case dimensions:

37.3” (L) x 35.3” (W) x 17.5” (H)

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

SAT and Halo: ½ AA, 3.6v, lithium-thionyl chloride battery.

HCU: AA, 3.6v, lithium-thionyl chloride battery.

Applicable Publications:

TM 23-6920-706-10 - Operator Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS)

TM 23-6920-706-24 - Maintenance Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS)

TM 23-6920-707-10 - Operator Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS), Training Data Transfer Device (TDTD)

Reference Publications:

None

Training Requirements Supported:

(Information not available)

**MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM
INDIVIDUAL WEAPONS SYSTEM (MILES IWS)
M16/M4 RIFLE KIT, INSTRUMENTABLE**

**Training Category/Level Utilized:**

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC.

Purpose of Trainer:

The purpose of this trainer is to replace Basic MILES and MILES 2000 systems at home-station and the Combat Training Centers (CTCs) due to age of technology and cost to maintain. The major differences between MILES Individual Weapons Systems (MILES IWS) and predecessor devices is in battery selection; the use of 2.4GHz ZigBee to communicate between the vest and Small Arms Transmitter (SAT); the use of a red laser, alignment knobs, and reflective paper targets to align the SAT. Weight of the device is also reduced from earlier devices. The MILES IWS kits are instrumentable for use in instrumented ranges.

This device is a component of the Multiple Integrated Laser Engagement System Individual Weapons Systems (MILES IWS). MILES IWS is a family of training systems, which simulate the effects of direct-fire weapons at their operational ranges. MILES IWS is primarily used for force-on-force training from squad up to and include Brigade level.

Functional Description:

The MILES IWS consists of 6 fielded distinct weapon firing systems, employs eye-safe lasers and microelectronics to realistically simulate the firing capabilities of rifles, machine guns, and other direct-fire weapons. The laser firing SATs attach easily to conventional field weapons, allow ground troops to fire coded (to distinguish weapon type and player ID) laser signals. Soldiers fire blank ammunition, the "flash and bang" triggers the SAT. The receiving laser detectors determine, Hit, Near Miss,

or Kill status of received fire. If Killed, the receiving target disables the system preventing the "killed" player from firing his/her weapon.

Physical Information:

The Manworn Harness consists of an infrared detector array attached to a vest that contains a sound transmitting device and a Harness Control Unit (HCU). The HCU has a local Radio Frequency (RF) transceiver that allows it to communicate to the Small Arms Transmitter (SAT). The HCU receives encoded messages from the detectors.

The Halo consists of an electronic module and a set of infrared detectors mounted on a durable fabric. The Halo encircles the head providing 360 degrees coverage as a target. The Halo electronics receives encoded messages from the detectors and repeats the message to the Harness through embedded inductive loops.

The Small Arms Transmitter (SAT) is mounted on the barrel of personnel weapons and transmits MILES Laser messages to a target. When the Harness is killed, the SAT is automatically disabled.

Transit case dimensions:

37.3" (L) x 35.3" (W) x 17.5" (H)

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

SAT and Halo: ½ AA, 3.6v, lithium-thionyl chloride battery.

HCU: AA, 3.6v, lithium-thionyl chloride battery.

Applicable Publications:

TM 23-6920-706-10 - Operator Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS)

TM 23-6920-706-24 - Maintenance Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS)

TM 23-6920-707-10 - Operator Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS), Training Data Transfer Device (TDTD)

Reference Publications:

None

Training Requirements Supported:

(Information not available)

**MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM
INDIVIDUAL WEAPONS SYSTEM (MILES IWS)
M2 MACHINE GUN KIT, INSTRUMENTABLE**



Training Category/Level Utilized:

Combat Arms/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC.

Purpose of Trainer:

The purpose of this trainer is to replace Basic MILES and MILES 2000 systems at home-station and the Combat Training Centers (CTCs) due to age of technology and cost to maintain. The major differences between MILES Individual Weapons Systems (MILES IWS) and predecessor devices is in battery selection; the use of 2.4GHz ZigBee to communicate between the vest and Small Arms Transmitter (SAT); the use of a red laser, alignment knobs, and reflective paper targets to align the SAT. Weight of the device is also reduced from earlier devices. The MILES IWS kits are instrumentable for use in instrumented ranges.

This device is a component of the Multiple Integrated Laser Engagement System Individual Weapons Systems (MILES IWS). MILES IWS is a family of training systems, which simulate the effects of direct-fire weapons at their operational ranges. MILES IWS is primarily used for force-on-force training from squad up to and include Brigade level.

Functional Description:

The MILES IWS consists of 6 fielded distinct weapon firing systems, employs eye-safe lasers and microelectronics to realistically simulate the firing capabilities of rifles, machine guns, and other direct-fire weapons. The laser firing SATs attach easily to conventional field weapons, allow ground troops to fire coded (to distinguish weapon type and player ID) laser signals. Soldiers fire blank ammunition, the "flash and bang" triggers the SAT. The receiving laser detectors determine, Hit, Near Miss,

or Kill status of received fire. If Killed, the receiving target disables the system preventing the “killed” player from firing his/her weapon.

Physical Information:

The Manworn Harness consists of an infrared detector array attached to a vest that contains a sound transmitting device and a Harness Control Unit (HCU). The HCU has a local Radio Frequency (RF) transceiver that allows it to communicate to the Small Arms Transmitter (SAT). The HCU receives encoded messages from the detectors.

The Halo consists of an electronic module and a set of infrared detectors mounted on a durable fabric. The Halo encircles the head providing 360 degrees coverage as a target. The Halo electronics receives encoded messages from the detectors and repeats the message to the Harness through embedded inductive loops.

The Small Arms Transmitter (SAT) is mounted on the barrel of personnel weapons and transmits MILES Laser messages to a target. When the Harness is killed, the SAT is automatically disabled.

Transit case dimensions:

37.3” (L) x 35.3” (W) x 17.5” (H)

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

SAT and Halo: ½ AA, 3.6v, lithium-thionyl chloride battery.

HCU: AA, 3.6v, lithium-thionyl chloride battery.

Applicable Publications:

TM 23-6920-706-10 - Operator Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS)

TM 23-6920-706-24 - Maintenance Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS)

TM 23-6920-707-10 - Operator Manual, Multiple Integrated Laser Engagement System (MILES), Individual Weapons System (IWS), Training Data Transfer Device (TDTD)

Reference Publications:

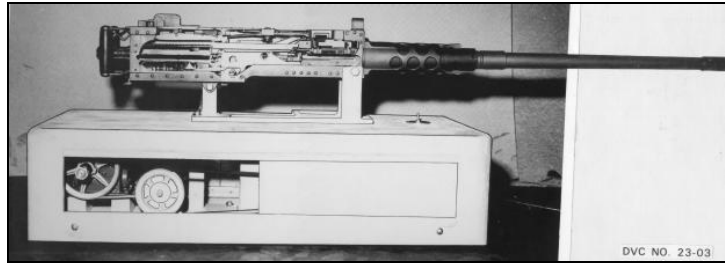
None

Training Requirements Supported:

(Information not available)

DVC 23-03
NSN 6920-01-067-1684

MOTORIZED SECTIONALIZED GUN .50 CALIBER, M2 MACHINE GUN



Functional Description:

The device is a motorized, sectionalized .50 caliber machinegun with sections cut out to expose important features for easy examination by students. The firing pin spring, oil buffer spring, and bolt driving spring have been shortened to reduce the force required to drive the device. Electric motors drive the gun through slow motion firing cycles (approximately seven times per minute) while dummy ammunition is fed into the breech mechanism, demonstrating clearly the interrelationship of the working parts. Dummy cartridges that have been ejected from the chamber fall into a compartment below the gun. Movement can be halted at any time with the motor switch, located on top of the cabinet, enabling the instructor or student to point out the relative positions of various parts at any point in the firing cycle. The gun is mounted on a cabinet assembly containing a 1/3 HP 110vac motor. Thirty dummy cartridges and links are furnished with each gun.

Purpose of Trainer:

For classroom use to demonstrate the cycle of operation of the .50 Caliber M2 Machinegun.

Physical Information:

54" x 24" x 24"; 175 lb

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

110vac

Training Category/Level Utilized:

Basic Weapons/Level 1

Training Requirements Supported:

MOSC 11-Series

Applicable Publications:

Maintenance Handbook for DVC 23-03

Reference Publications:

TM 9-1005-213

Source and Method of Obtaining:

Not generally available for issue (limited production).

Logistic Responsible Command, Service, or Agency:

PEO STRI

INTELLIGENCE



OPPOSING FORCE

DVC T 30-036B
DVC T 30-036C

IRAQI POLICE UNIFORM SHIRT w/EPAULETS, LRG

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

**DVC T 30-035A
DVC T 30-035B**

ISLAMIC DRESS, TUNIC, MIXED COLOR, LONG MED & LRG

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency:

OPFOR ISLAMIC DRESS



Functional Description:

DVC-T 30-031A thru DVC-T 30-034B, OPFOR Islamic Dress, consist of:
DVC-T 30-031A (medium) and **DVC-T 30-31B** (large), Disha Dasha, an off white cotton long sleeve shirt
DVC-T 30-34A (medium) and **DVC-T 30-34B** (large) off white cotton drawstring pants
DVC-T 30-33, Shimagh, a black and white cotton scarf.
DVC-T 30-32, Egal, a headband of nylon rope materiel.

Purpose of Trainer:

These devices are used to add realism during Force on Force exercises and should be used in all ARTEPS that use an Opposing Force.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

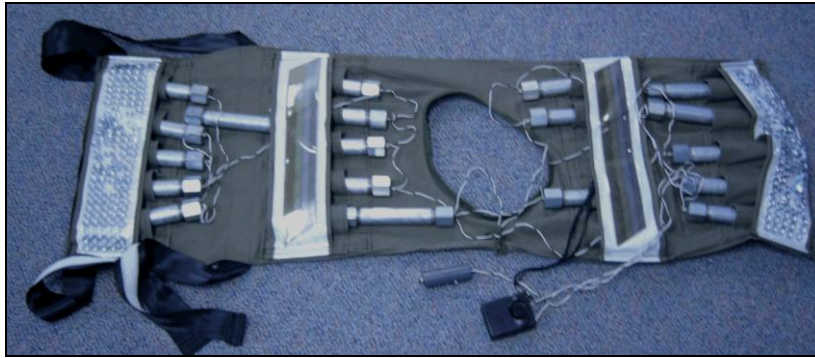
Power Requirements:

None

Training Category/Level Utilized:

Information not available

SUICIDE BOMB VEST



Functional Description:

DVC-T 30-030 is a full-scale replica of a vest with inert pipe bombs, nails and nuts for shrapnel, and an alarm. The soldier will be alerted when the trigger device is pressed.

Purpose of Trainer:

The device can be used in or outside the classroom to teach soldiers how Suicide Bombers might place them into a targeted area.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

BRIEFCASE BOMB



Functional Description:

DVC-T 30-029 is a briefcase that has inert pipe bombs with nails and nuts for shrapnel. The case has a dummy cell phone for a trigger and an alarm that will alert the soldiers when the case is opened.

Purpose of Trainer:

The device can be used in or outside the classroom to teach soldiers how IEDs may be placed into target areas.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

UZI PLASTIC WEAPON



Functional Description:

DVC-T 30-024, UZI Machine Gun, is a full-scale, three-dimensional static plastic replica of a foreign nation's small arms.

Purpose of Trainer:

This device can be used for classroom or field recognition instruction, or can be carried during tactical exercises to add realism to the portrayal of opposing force troops.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

SVD SNIPER RIFLE



Functional Description:

DVC-T 30-018, SVD, is a full-scale, three-dimensional plastic and metal inert replica of the SVD Sniper Rifle.

Purpose of Trainer:

This device is used for classroom and field recognition training to emphasize the lethality, characteristics, and employment of foreign nation small arms.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

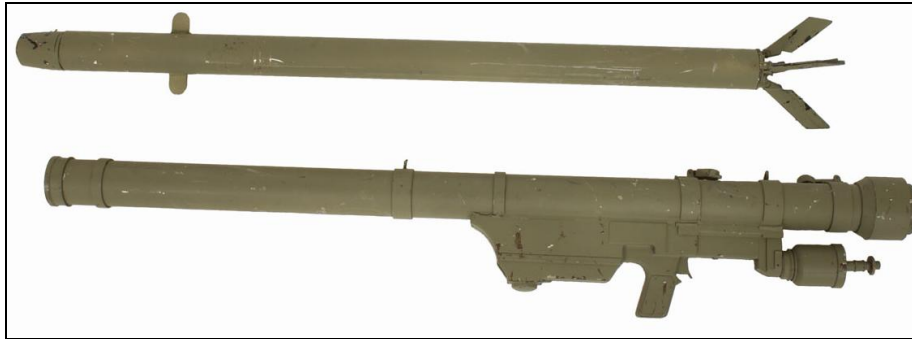
Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

ATSC

SA-7 (GRAIL)



Functional Description:

DVC-T 30-014, SA-7, is a full-scale, three-dimensional plastic and metal inert replica of the SA-7 Guided Antiaircraft Missile System (GRAIL), consisting of the launcher and removable missile

Purpose of Trainer:

The GRAIL is used during classroom and field instruction to emphasize the lethality of foreign nation anti-aircraft capabilities. It is also used by the opposing forces during tactical exercises to enhance realism and introduce an anti-aircraft dimension to field intelligence play.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

RKG-3 ANTITANK GRENADE



Functional Description:

DVC-T 30-012, RKG-3, is a full-scale, three-dimensional static plastic replica of foreign nation antitank grenade.

Purpose of Trainer:

This device is designed to enhance the realism of Opposing Force simulation during tactical training and can also be used for classroom or field instruction on foreign nation weapons.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

Source and Method of Obtaining:

Available through local TSC

RG-42 ANTIPERSONNEL GRENADE



Functional Description:

DVC-T 30-010, RG-42, is a full-scale, three-dimensional static plastic replica of foreign nation antipersonnel grenades.

Purpose of Trainer:

This device is designed to enhance the realism of Opposing Force simulation during tactical training and can also be used for classroom or field instruction on foreign nation weapons.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

POMZ-2 ANTIPERSONNEL MINE



Functional Description:

DVC-T 30-009, POMZ-2, is a full-scale, three-dimensional static plastic replica of foreign nation antipersonnel mine.

Purpose of Trainer:

This device is designed to enhance the realism of Opposing Force simulation during tactical training and can also be used for classroom or field instruction on foreign nation weapons.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

PM-50 PISTOL (SHOWN W/ HOLSTER)



Functional Description:

DVC-T 30-008, PM 50 Pistol, is a full-scale, three-dimensional static plastic replica of foreign nation small arms. It is shown with a holster.

Purpose of Trainer:

This device is designed to enhance the realism of Opposing Force simulation during tactical training and can also be used for classroom or field instruction on foreign nation weapons.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

RPK SQUAD MACHINE GUN



Functional Description:

DVC-T 30-007, RPK, Squad Machine Gun, is a full-scale, three-dimensional static plastic replica of foreign nation small arms.

Purpose of Trainer:

This device is designed to enhance the realism of Opposing Force simulation during tactical training and can also be used for classroom or field instruction on foreign nation weapons.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

Reference Publications:

Information not available

AK-47 ASSAULT RIFLE



Functional Description:

DVC-T 30-006, AK-47, Assault Rifle, is a full-scale, three-dimensional static plastic replica of foreign nation small arms.

Purpose of Trainer:

This device is designed to enhance the realism of Opposing Force simulation during tactical training and can also be used for classroom or field instruction on foreign nation weapons.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

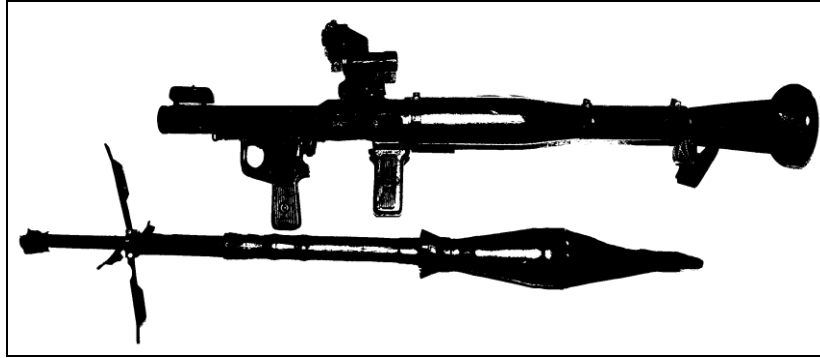
Applicable Publications:

Information not available

Reference Publications:

Information not available

RPG-7 ANTITANK GRENADE LAUNCHER WITH ROUND



Functional Description:

DVC-T 30-005, RPG-7, is a full-scale three-dimensional replica of the RPG-7 Antitank Grenade Launcher. It duplicates the size and physical appearance of the actual RPG-7, facilitating instruction on its components and characteristics. A removable model of the 85mm round with collapsible fins is mounted in the launcher assembly.

Purpose of Trainer:

This device is designed to enhance the realism of Opposing Force simulation during tactical training and can also be used for classroom or field instruction on foreign nation weapons.

Physical Information:

Information not available

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

None

Training Category/Level Utilized:

Information not available

Training Requirements Supported:

Information not available

Applicable Publications:

Information not available

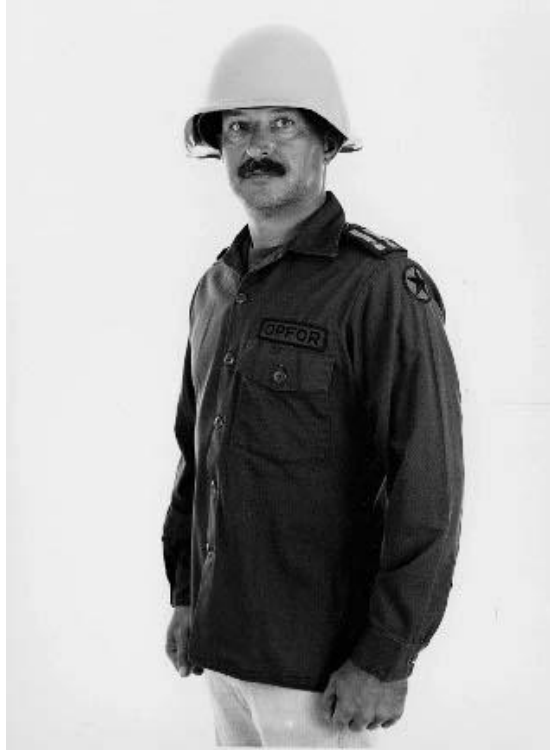
Reference Publications:

Information not available

OPPOSING FORCE UNIFORM

DVC-T 30-28A (Medium) OPFOR SHIRT

DVC-T 30-28B (Large) OPFOR SHIRT



TRAINING CATEGORY/LEVEL UTILIZED:

Infantry - All Levels

**EQUIPMENT REQUIRED,
NOT SUPPLIED:**

None

SOURCE AND METHOD OF OBTAINING:

Available at local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**

None

PURPOSE OF TRAINER:

**The uniform should be used in all
ARTEPS that use an Opposing
Force.**

POWER REQUIREMENTS:

None

PHYSICAL INFORMATION:

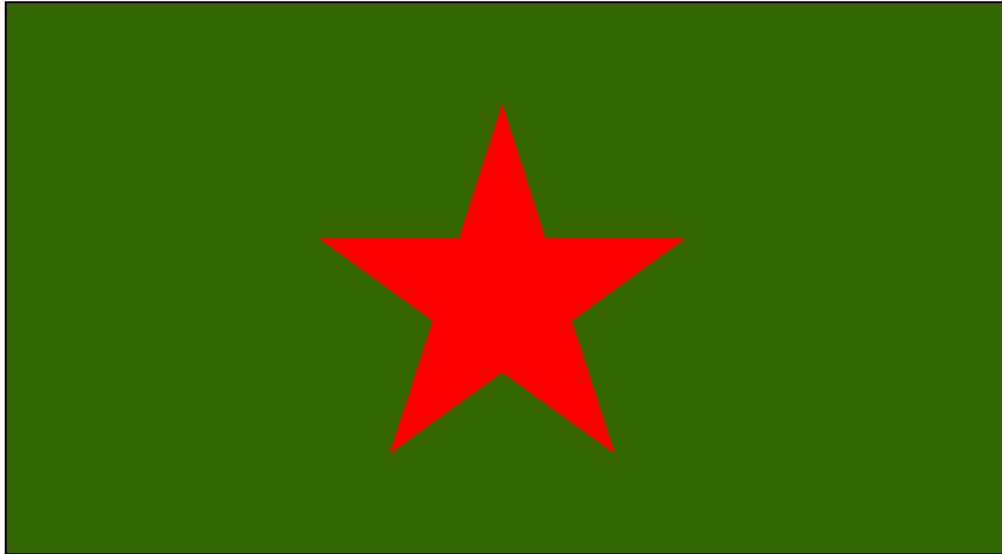
Consists of a shirt.

PUBLICATIONS:

None

OPFOR IDENTIFICATION PANEL

FHTE 30-1-91



TRAINING CATEGORY/LEVEL UTILIZED:
Combat Arms/Levels 1, 2, and 3

**EQUIPMENT REQUIRED,
SUPPLIED:**
None

SOURCE AND METHOD OF OBTAINING:
Available at Local TSC

**SPECIAL INSTALLATION
REQUIREMENTS:**
None

PURPOSE OF TRAINER:
Used for OPFOR Training.

POWER REQUIREMENTS:
None

PHYSICAL INFORMATION:
18" x 30" board, with a red vinyl star
in the middle.

PUBLICATIONS:
None

CREW VEHICLE RECEIVER/JAMMER (CVRJ) 315 MHz TRAINING DEVICE



RECEIVER / TRANSMITTER



REMOTE CONTROL UNIT (RCU)

Training Category/Level Utilized:

Military Intelligence/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

Provides realistic training in the use of current electronic countermeasures (ECM) equipment in respect to an adaptive threat and the potential impacts of radio frequency (RF) emitters on C2 systems equipment.

Functional Description:

The CVRJ trainer provides a training simulator that looks, feels, and operates like the current ECM equipment fielded to operational units for protection against Radio-Controlled Improvised Explosive Devices (RCIED) with the exception that the Radio Frequency (RF) environment and emissions will reside in a virtual environment so as best to recreate battlefield conditions. This device operates at 315 MHz.

Physical Information:

Receiver / Transmitter Dimensions: 17.5" x 13.5" x 13.0" Weight: 24.0 lb.

Remote Control Unit Dimensions: 5.8" x 3.9" x 2.0"

Weight: 2.0 lb.

Equipment Required, Not Supplied:

The Receiver / Transmitter Unit: Mounted with commercial fasteners.

Remote Control Unit: N/A

Special Installation Requirements:

Receiver / Transmitter: Mounted in right-rear area of the vehicle.

Remote Control Unit: N/A

Power Requirements:

Receiver / Transmitter and Remote Control Unit: 24V vehicle power

Applicable Publications:

Operators Manual: 11-6920-70610

System Maintenance Manual: 11-6920-706-24 & P

Reference Publications:

None

Training Requirements Supported:

Individual Training: Any MOS with a mission requirement to operate a vehicle in an environment where the Radio Controlled Improvised Explosive Device threat is likely. Operators may also include military civilians and contractors.

MOBILE MULTI-BAND JAMMER (MMBJ) 315 MHz TRAINING DEVICE

NSN 5865-01-566-2603

DVC 30-33/1

Mobile Multi Band Jammer (MMBJ), 433 MHz Training Device



RECEIVER / TRANSMITTER



REMOTE DISPLAY UNIT (RDU)



DC POWER SUPPLY

Training Category/Level Utilized:

Military Intelligence/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

Provides realistic training in the use of current electronic countermeasures (ECM) equipment in respect to an adaptive threat and the potential impacts of radio frequency (RF) emitters on C2 systems equipment.

Functional Description:

The MMBJ provides a training simulator that looks, feels, and operates like the current ECM equipment fielded to operational units for protection against Radio-Controlled Improvised Explosive Devices (RCIED) with the exception that the Radio Frequency (RF) environment and emissions will reside in a virtual environment so as best to recreate battlefield conditions. This device operates at 315 MHz.

Physical Information:

Receiver / Transmitter Dimensions: 19" x 20" x 4.5" Weight: 14.8 lb.

Remote Display Unit Dimensions: 7.25" x 4.5" x 2.25" Weight: 1.6 lb.

DC Power Supply Dimensions: 11.75" x 6.25" x 5" Weight: 2.2 lb.

Equipment Required, Not Supplied:

The Receiver / Transmitter, DC Power Supply, and Remote Display Unit are mounted with commercial fasteners.

Special Installation Requirements:

Receiver / Transmitter and DC Power Supply: Mounted in right-rear area of the vehicle.

Remote Display Unit: Mounted in right-front seat area of vehicle.

Power Requirements:

Receiver / Transmitter and Remote Display Unit: 24V vehicle power

DC Power Supply: Pass-thru device (draws no power)

Applicable Publications:

Operators Manual: 11-6920-705-10

System Maintenance Manual: 11-6920-705-24 & P

Reference Publications:

None

Training Requirements Supported:

Individual Training: Any MOS with a mission requirement to operate a vehicle in an environment where the Radio Controlled Improvised Explosive Device threat is likely. Operators may also include military civilians and contractors.

COUNTERMEASURE INDICATOR UNIT (CIU)

NSN 6910-01-565-1360

DVC 30-32/1

Countermeasure Indicator Unit (CIU), 433 MHz

**Training Category/Level Utilized:**

Military Intelligence/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The Countermeasure Indicator Unit (CIU) provides a 360 degree visual indication via a Light Emitting Diode (LED) indicator beacon to personnel within visual range of the CIU when operating in both day and night operations that an operational CREW 2 training device is within range of the CIU. The CIU is capable of receiving radio frequency from the CREW 2 training device across all four assigned frequencies.

Functional Description:

When the CIU is in normal mode operations (2) red LEDs within the indicator beacon will illuminate indicating an operating CREW 2 training device is NOT within operational range of the CIU. When the CIU is in tactical mode operations the red LEDs are not illuminated also indicating an operating CREW 2 training device is NOT within operational range of the CIU, and enabling a reduction of position awareness and saving CIU battery power. When an operating CREW 2 training device is within operational range of the CIU (2) green LEDs within the indicator beacon will illuminate indicating the CREW 2 training device is transmitting. The CIU is powered by a 12 volt rechargeable battery, and includes a 110/220 volt recharging pack capable of being housed within the CIU.

Physical Information:

Dimensions: 9-5/8" wide x 4-3/8" high x 7-1/2" deep

Weight: 6.436 lb.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

12 volt lead-acid rechargeable battery

Applicable Publications:

Operators Manual: TM 11-6920-704-10

System Maintenance Manual: SMM 11-6920-704-24&P

Reference Publications:

None

Training Requirements Supported:

Individual Training: Any MOS with a mission requirement to operate in an environment where the Improvised Explosive Device threat is likely.

INTERRUPT DEVICE, INCREMENT 2

NSN 6910-01-565-1522

DVC 30-31/A/1

Interrupt Device 2, 433 MHz

**Training Category/Level Utilized:**

Military Intelligence/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The Interrupt Device 2 (ID2) may be operationally hardwired between any electrical detonation system and any electrically detonated cuing device. The ID2 is capable of receiving disable commands from the CREW 2 training device when emplaced within the operating range of the CREW 2 training device. The disable command opens the circuit between the cuing device and the detonator thereby preventing detonation of the attached explosive device.

Functional Description:

The ID2 is capable of transmitting identification of eight (8) different types of cuing devices to the CREW 2 training device for AAR purposes. When the CREW 2 training device moves out of effective range, the ID2 resets by closing the previously opened circuit; thereby making detonation of the hardwired explosive device possible. The ID2 possesses the identical physical characteristics of the Interrupt Device 1, and utilizes the same radio frequency as the CREW 2 training device. The only distinguishing characteristic of the ID2 from the Interrupt Device 1 is an eight (8) position switch on the side of the ID2 unit.

Physical Information:

Dimensions: 7-9/16" wide x 2-1/16" high x 3-15/16" deep.

Weight: 1.529 lb.

Equipment Required, Not Supplied:

"AA" Batteries (8) total

Special Installation Requirements:

None

Power Requirements:

"AA" Batteries (8) total

Reference Publications:

None

Training Requirements Supported:

Individual Training: Any MOS with a mission requirement to operate in an environment where the Improvised Explosive Device threat is likely

**COUNTER RADIO (CONTROLLED IMPROVISED EXPLOSIVE DEVICE)
ELECTRONIC WARFARE, INCREMENT 2 TRAINING DEVICE
(CREW 2)**

NSN 6910-01-565-1383

DVC 30-30/1

Counter Radio (Controlled Improvised Explosive Device) Electronic Warfare, Increment 2 Training Device (CREW 2, 433MHz)

Primary Unit



Remote Control Unit

**Training Category/Level Utilized:**

Military Intelligence/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

Provides realistic training in the use of current electronic countermeasures (ECM) equipment in respect to an adaptive threat and the potential impacts of radio frequency (RF) emitters on C2 systems equipment.

Functional Description:

DVC 30-30 provides a training simulator that looks, feels, and operates like the current ECM equipment fielded to operational units for protection against Radio-Controlled Improvised Explosive Devices (RCIED) with the exception that the Radio Frequency (RF) environment and emissions will reside in a virtual environment so as best to recreate battlefield conditions.

Physical Information:

Unit Dimensions: 13" x 16" x 12.5",

Weight: 58.4 lb. with Mounting Tray.

Remote Control Unit Dimensions: 11" x 7.5" x 3.5", Weight: 2.8 lb.

Equipment Required, Not Supplied:

Primary Unit and Remote Control Unit: Mounted with commercial fasteners.

Special Installation Requirements:

Primary Unit: Mounted within an "A" kit enclosure on vehicle.

Remote Control Unit: Mounted in right-front seat area of vehicle.

Power Requirements:

Primary and Remote Control Unit: 24V vehicle power.

Applicable Publications:

Operators Manual: 11-6920-702-10
System Maintenance Manual: 11-6920-702-24&P

Reference Publications:

None

Training Requirements Supported:

Individual Training: Any MOS with a mission requirement to operate a vehicle in an environment where the Radio Controlled Improvised Explosive Device threat is likely. Operators may also include military civilians and contractors.

INTELLIGENCE AND ELECTRONIC WARFARE TACTICAL PROFICIENCY TRAINER (IEWTPT)

**Training Category/Level Utilized:**

Military Intelligence/Level 3

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

Available through local TSC

Purpose of Trainer:

The Intelligence and Electronic Warfare Tactical Proficiency Trainer (IEWTPT) is a non-system training device that is multipurpose and multi-intelligence discipline, that enables practical battle command training through the realistic simulation, stimulation, and presentation of Joint and Army intelligence capabilities.

Functional Description:

The IEWTPT is a new multipurpose and multi-intelligence discipline non-system training device that will enable training on war fighting Military Intelligence (MI) systems. IEWTPT provides the ability for MI commanders to conduct individual, crew, collective, and unit training.

The Intelligence Electronic Warfare Tactical Proficiency Trainer (IEWTPT) provides Warfighting commanders at all echelons the Intelligence, Warfighting Function (IWF) based on realistic Intelligence, Surveillance, and Reconnaissance (ISR) assets, people (maneuver commander, G-2, G-3, collection managers, analysts/operators), and processes. IEWTPT is a Non-System Training Device (NSTD) that stimulates and/or

replicates MI warfighting systems. IEWTPT provides proficiency training for operators and battle staffs and allows commanders to synchronize their ISR assets. Analyst/system operators are able to exploit exercise intelligence data during training just as they would in "real world" operations. IEWTPT is comprised of three components: Target Signature Arrays (TSA), Technical Control Cell (TCC) and the HUMINT Control Cell (HCC).

IEWTPT provides a realistic target environment for multi-intelligence disciplines including SIGINT, IMINT, HUMINT, CI, MASINT and OSINT. IEWTPT must stimulate multiple systems TSAs (TUAV, TES, CGS, GRCS, CHATS, ACS, Prophet, etc.). IEWTPT also provides static and dynamic training events. These training events include interactive environment for individual, collective and mission rehearsals/exercises and occur in an integrated, playback and stand-alone mode. IEWTPT

generates an After Action Review (AAR) of operator performance, crew performance and battle staff actions. It uses unclassified through classified data from the simulation/scenarios up to the Top Secret Sensitive Compartmented Information (TS/SCI) level.

The TCC must interface with the Combat Training Centers (CTC) and Homestation training instrumentation systems to provide a total battlefield picture.

The TSA stimulates the IEW war fighting equipment using the data propagated by the TCC. This netting of the TCC to TSA provides the architecture for MI unit level sustainment training. The TSA has the capability to record, and play back a scenario for standalone individual or crew training without the TCC. The nine IEW war fighting systems, identified below, will have a TSA built and installed by that specific IEW system Program Manager.

- Common Ground Station (CGS)
- Tactical Unmanned Aerial Vehicle (TUAV) (Ground Control Station (GCS))
- GUARDRAIL Common Sensor (GRCS) (Integrated Processing Facility (IPF))
- PROPHET (Ground, Air, Control)
- Counterintelligence (CI) Human Intelligence (HUMINT) Automation Tool Set (CHATS)
- Tactical Exploitation System (TES)/Distributive Tactical Exploitation System (DTES)
- Aerial Common Sensor (ACS)
- Distributed Common Ground System-Army (DCGS)

The HCC is the Army's latest sustainment trainer for HUMINT/CI Collectors. The HCC allows the HUMINT/CI Collector to gather intelligence information from the virtual human while a HUMINT/CI instructor monitors the student's performance. At the end of the tactical questioning training event, the HUMINT/CI collector reviews After Action Review statistics as well as HUMINT/CI instructor commands. The HCC currently is fielded with the IEWTPT at the Battle Command Training Centers. Finally, IEWTPT is transportable to support training if units are deployed.

Physical Information:

IEWTPT can be installed at fixed sites. Portable configurations are also available.

Equipment Required, Not Supplied:

These items should be provided by the simulation center responsible for running exercises supported by IEWTPT. These items include:

Constructive Simulations -

Tactical Simulation (TACSIM)

Combat Training Centers (CTC)

Joint Conflict and Tactical Simulation (JCATS)

Tactical Signature Arrays (TSAs) –

Common Ground Station (CGS)

Tactical Unmanned Aerial Vehicle (TUAV)

Tactical Exploitation System/ Division TES (TES/DTES)

Special Installation Requirements:

TCC size will vary from approximately 168 square feet for the single SECRET collateral enclave to approximately 336 square feet for the dual SECRET and TS/SCI enclave. Also needed are a safe and a secure telephone unit (STU) III or equivalent phone. Connection to the LAN/wide area network to the constructive simulation driver and out to the local TSA locations is required. Doors should be 36" wide by 84" tall or larger for ease of movement of the TCC equipment. Maintenance shop for TCC requires approximately 144 square feet and a storage area for spare parts requires approximately 144 square feet.

HCC installation size will vary from 132 square feet to 220 square feet depending on how the user decides to setup the room. There will be a projector, projection screen, computer and additional system components. The system is Unclassified, so there is no requirement for Classified Storage (safe) or secure telephone. HCC system is standalone and does NOT require network connection to LAN/WAN. Doors should be 36" wide by 84" tall or larger for ease of movement of the HCC Storage Cases. HCC sites can reuse the existing TCC maintenance area for storage of spares/cases. If site does not have a TCC, then approximately 10 square feet of storage space is required for spares and storage cases.

Power Requirements:

The TCC system requires 120 Volts Alternating Current (AC) provided to each Uninterruptible Power Supply (UPS) system located in the bottom transit case of each transit case stack.

- Power for a single TCC System requires four, 20 amp circuit drops, installed in the facility.
- Power for a dual TCC System requires seven, 20-amp circuit drops, installed in the facility
- HCC Power Requirements: Each HCC system requires

120 Volts AC on single 15 or 20 Amp Circuit to power.

No UPS is provided because all computer systems are Laptops and contain batteries.

Applicable Publications:

62-P56803H TCC Systems Security Authorization Agreement (SSAA)
98-P56873H TCC Software Version Description (SVD) document
99-P56791H TCC Fort Huachuca Site Survey Report
68-P56864H TCC Software User's Manual (SUM)
68-P56865H TCC Operator's Manual

Reference Publications:

None

Training Requirements Supported:

Enlisted MOSC:
33W
96B, 96D, 96H, 96U
97B, 97E
98C, 98G, 98G1A, 98Y, 98P

Enlisted Courses:

Phase II CMF 33 (1-33-C42 EW/Intercept Sys Maint Sup)

Phase II CMF 96 (2-96-C42 MI ANCOG)

Phase II CMF 98 (2-98-C42 EW/Cryptographic Sup)

NOTE: Junior and senior noncommissioned officers (same MOSs as above) will train by using the IEWTPT in a simulated operational environment in which they must perform/practice their staff and supervisory tasks.

Warrant Officers MOS:

350B, 350D, 350U

351B, 351E

352C, 352G, 352J

353A

Warrant Officer Courses:

MIWOBC (MOSs 350B, D, 350U, 351B, E, 352C, D, G, J, & 353A)

MIWOAC (MOSs 350B, D, 351B, E, 352C, D, G, J, & 353A)

Officers MOS:

35C, 35D, 35E, 35G

Officer Courses:

MIOBC

MICCC (MOSs 35C, 35D, 35E, & 35G)

NOTE: Field grade MI officers will train their MI units by using the IEWTPT in a simulated operational environment during which they must perform/practice their leadership, staff and supervisory tasks.

Assignment Specific Courses:

Counterintelligence Force Protection Source Operations (CFSO)

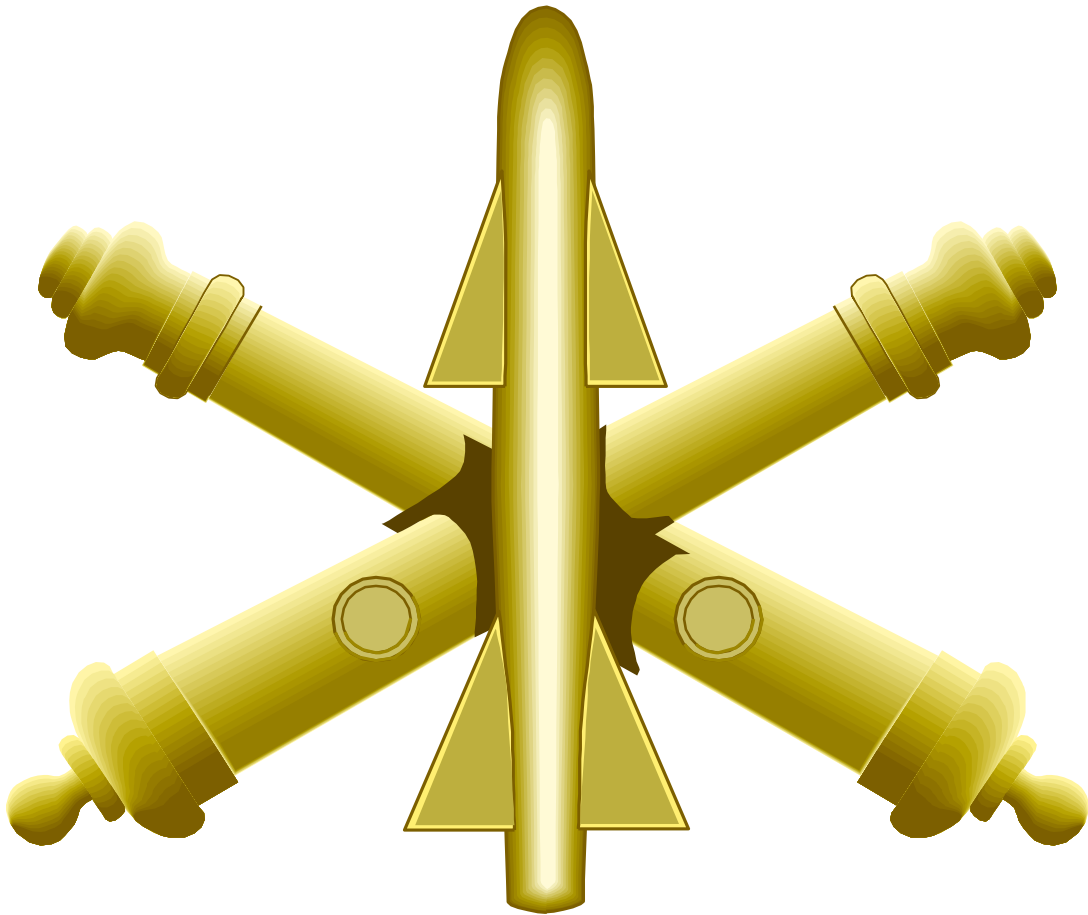
TES Analysis Course (TAC)

MI Pre-Command Course 2G-F41

G2/ACE Chiefs

CGSOC Advanced Individual Training Elective

AIR DEFENSE



ARTILLERY

AVENGER SLEW TO CUE TABLE TOP TRAINER (AT3)

NSN Not Assigned
NSN Not Assigned

DVC 44-93/A AVENGER Table Top Trainer (AT3), (Student Station)
DVC 44-93/B AVENGER Table Top Trainer (AT3), (Instructor Station)



Student Station



Instructor Station

Training Category/Level Utilized:

Air Defense/Level 3

Logistic Responsible Command, Service, or Agency:

PEO STRI

Source and Method of Obtaining:

Not generally available for issue (limited production)

Purpose of Trainer:

The Avenger Slew-To-Cue Table Top Trainer is an interactive desktop trainer that provides a deployable system capable of meeting the Air Defense gunnery training requirements. This trainer will provide a basic entry level training system to train crewmembers in engagement techniques (alert, cue, search, detect, acquire, identify, track, and engage).

Functional Description:

DVC 44-93 is an interactive graphics trainer of the principle features of the Avenger turret/gunner station. The system includes a monitor that presents the out-of-window (canopy) view and the gunner's Forward Looking Infrared (FLIR) display. The system also provides an interface to a tactical gunner hand station, control foot switches, and other Graphical User Interface switches used to simulate gunner controls to allow the gunner to perform air defense engagements. The system provides training for the additional Slew-To-Cue (STC) capabilities. Additionally the training systems can be networked to an instructor station capable of supporting up to eight crew stations at one time. This device will replace DVC 44-73, Avenger Table Top Trainer (AT3).

Physical Information:

Student station: 2 transit cases
Crew station case: 29" H x 22" W x 22" D, weight ~ 107 lbs
Computer case: 17" H x 27" W x 31" D, weight ~ 105 lbs
Instructor Operator Station: 1 transit case
IOS case: 18" H x 22" W x 22" D, weight ~ 51 lbs

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

115/220vac, 50/60 Hz

Applicable Publications:

Student Station/Instructor Station Manual: MIS-54524

TM-9-1425-433-10/Operator's Manual for the Avenger Weapon System.

Reference Publications:

None

Training Requirements Supported:

MOS 14S

MOS 14B

Added Improvements/Upgrades:

Recent software and hardware upgrades have been installed through 50% of current Avenger AT3 systems. This upgrade meets current requirements for ongoing Army missions

STINGER TROOP PROFICIENCY TRAINER (STPT) (IMPROVED)



Functional Description:

There are 2 main components of the STPT's hardware, an Instructor Station and a Student Station. The Instructor Station is a ruggedized personal computer, running on Windows 2000 that drives the student station. The Student Station hardware replicates Stinger weapon with a simulated terrain scene that reacts to the operation and orientation of the launch tube.

Instructor Station: During exercise sessions, various combinations of targets are presented that follow pre-set routes across the terrain. The gunner observes and tracks the targets through the Sight Assembly and performs a variety of tasks to engage those targets, as determined by the particular requirements of each exercise. The system evaluates the trainee throughout the whole firing procedure. The Instructor Station automatically scores certain aspects of gunner performance (tracking score, hit/miss, etc.), while the instructor scores other aspects manually (scanning the sector, target prioritization, etc.). As part of the after action report, the computer will note incorrect actions performed by the trainee, so examples are: fired at a friendly target; failed to properly super elevate; failed to hold fire trigger for 3 seconds; failed to remove the BCU after firing; failed to IFF target before engagement.

Student Station: The size, weight and feel of the STPT system is closely replicated with the real Stinger missile system. The system is designed to be disassembled for ease of storage without the need of hand tools (See Figure 6). The STPT housing is made primarily out of aluminum and was designed to withstand the hazards of frequent transport and field use.

The display used to represent the terrain scene is a high-resolution color LCD display in a ruggedized custom enclosure. The virtual horizon is an actual photograph of real locations utilizing stereoscopic imaging to create depth perception while maintaining real-time feedback to the gunner's inputs from his position in the battlefield. The operator can traverse 180 degrees, viewing the virtual battlefield.

Purpose of Trainer:

The Stinger Troop Proficiency Trainer (STPT) is an engagement skills trainer for the US man-portable, shoulder-fired infrared radiation (IR), home (heat seeking), and guided missile systems known as MANPADS. The legacy system can be found under NSN 6920-01-283-5015. Utilizing the latest commercially available hardware and software, the STPT provides a state of the art, reliable, effective, low cost training solution for

DVC 44-052A

Purpose of Trainer:

Stinger firing procedures under battle conditions. Providing interactive three-dimensional (3D) simulations of tactical engagement sequences, the device delivers the gunners with the basic technical skills required to successfully engage targets with the Stinger weapon system.

Physical Information:

Instructor Station: 16" W, 11" H, 9" D, 40 lbs

Student Station: 64" W, 14" H, 22.5" D, 38 lbs

Transit Case (Instructor): 25" W, 19" H, 17" D 50lbs

Transit Case (Student): 52" W, 28" H, 24" D, 93 lbs

Equipment Required, Not Supplied:

None

Special Installation Requirements:

None

Power Requirements:

115vac, 50/60 Hz

220vac, 50/60 Hz

Training Category/Level Utilized:

Air Defense/Level 3

Training Requirements Supported:

MOSC 16S

Applicable Publications:

Stinger Instructor/Operator Manual TD 44-6920-702-10

System Maintenance Manual TD 44-6920-703

Reference Publications:

FM 44-18-1

Source and Method of Obtaining:

Available through local TSC

Logistic Responsible Command, Service, or Agency:

PEO STRI

IMPROVED MOVING TARGET SIMULATOR (IMTS)



Functional Description:

The IMTS training system consists of a 360 degree, 40 foot diameter hemispherical dome, an Instructor/Operator Station, Computer Image Generator capable of projecting simulated scene, weather, clouds, aircraft (with Countermeasures), IFF, 8 background environments, gunner scoring system, and student performance measurement.

Purpose of Trainer:

The Improved Moving Target Simulator (IMTS) Upgrade program incorporates the latest technology to train the Stinger gunner and team in the techniques and skills required for successful operation of the Stinger Man portable Air Defense System (MANPADS) used to train three MANPADS gunners individually or simultaneously, to identify, acquire and track airborne targets and launch Stinger RMP and Block One improved missiles.

Physical Information:

40-foot diameter hemispherical screen Instructor console

Equipment Required, Not Supplied:

None

Special Installation Requirements:

Suitable building or structure

Power Requirements:

110vac, 50n Hz, 3kva

Training Category/Level Utilized:

Air Defense/Level 1

Training Requirements Supported:

Information not available

Applicable Publications:

DVC 44-027C

TM 9-6920-2427-10
TM 9-6920-2427-20

Reference Publications:

Information not available

Source and Method of Obtaining:

Not generally available for issue (limited production)

Logistic Responsible Command, Service, or Agency:

PEO STRI

TRANSPORTATION



HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV) EGRESS ASSISTANCE TRAINER (HEAT)

**Training Category/Level Utilized:**

Transportation/ On-Site Personnel Trainer/Level 1

Logistic Responsible Command, Service, or Agency:

PEO-STRI, Orlando FL

Source and Method of Obtaining:

(Information not available)

Purpose of Trainer:

The HEAT is used to provide safety instruction for vehicle occupants using a salvaged HMMWV body with doors, gunner's hatch, and ancillary items of correct dimensions and weight, such as seat belts; VIC-3 radio communications; gunner's platform; and combat locks. The purpose is to reduce injuries and fatalities associated with HMMWV rollover accidents. The trainer exposes the soldier to the disorienting effect of a vehicle rollover, and the associated physical effort required to execute a safe escape from an overturned vehicle. The HEAT builds and reinforces crew confidence by physically rehearsing and executing the steps required to survive a vehicle rollover.

Functional Description:

The trainer mechanically rotates the HMMWV training compartment in either direction through 90 to 180 degrees within nine (9) seconds of activation, and then returns the crew compartment to an upright position at the completion of the exercise. The HEAT is equipped with the capability for audio communication from the I/O to the students inside the trainer. The system has two video cameras in the crew compartment to give the I/O situational awareness of the interior; and also provides a recording tool for After Action Reviews (AAR). I/Os have the ability to stop and hold the trainer stationary at any time during operation,

observing from any location in and around the device while using a remote control incorporating a dead man safety switch feature. Students also have the ability to stop the device from within the trainer via an emergency stop (E-Stop) button. The trainer automatically stops rotating if vehicle door combat locks are not properly engaged. The trainer can be operated indoors as well as outdoors in various weather environments. The HEAT is transportable on common military trailers using existing material handling equipment.

Physical Information:

HEAT in Stowed Position

- Height: 97 inches
- Width: 106 inches
- Length: 177 inches
- Weight: 13,200 lbs.

HEAT Fully Operational

- Height: 121 inches
- Width: 182 inches
- Length: 177 inches
- Weight: 13,200 lbs.

Equipment Required, Not Supplied:

None

Special Installation Requirements:

No special requirements

Power Requirements:

The HEAT has battery power and can also be powered by existing, electrical power sources (110 and 220 voltage), using a power cable with universal power adapters.

Applicable Publications:

Operator Manual, Maintenance Manual

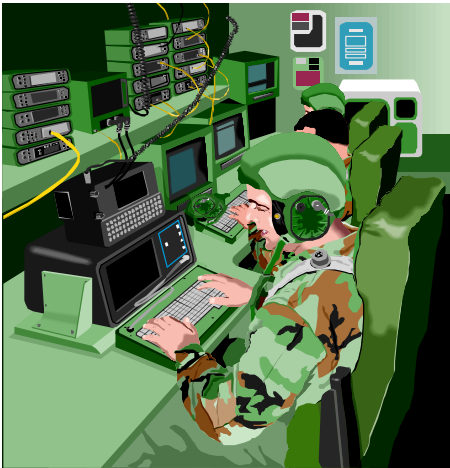
Reference Publications:

None

Training Requirements Supported:

Trains all MOSC series.

MISCELLANEOUS



DVC 99-116

ESCALATION OF FORCE KIT-DISMOUNTED OPS MODULE

NO PICTURE AVAILABLE

STANDARD DA PAM 350-9 INFORMATION UNAVAILABLE

Functional Description:

Purpose of Trainer:

Physical Information:

Equipment Required, Not Supplied:

Special Installation Requirements:

Power Requirements:

Training Category/Level Utilized:

Training Requirements Supported:

Applicable Publications:

Reference Publications:

Source and Method of Obtaining:

Logistic Responsible Command, Service, or Agency: