

TRAINING SUPPORT PACKAGE (TSP)

TSP Number / Title	T225 (2) / OPERATE THE MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES 2000)
Effective Date	01 Oct 2003
Supersedes TSP(s) / Lesson(s)	None
TSP Users	400-PLDC PH II, Primary Leadership Development Course, Phase II 400-PLDC, Primary Leadership Development Course
Proponent	The proponent for this document is the Sergeants Major Academy.
Improvement Comments	Users are invited to send comments and suggested improvements on DA Form 2028, <i>Recommended Changes to Publications and Blank Forms</i> . Completed forms, or equivalent response, will be mailed or attached to electronic e-mail and transmitted to: COMDT USASMA ATTN ATSS D BLDG 11291 BIGGS FIELD FORT BLISS TX 79918-8002 Telephone (Comm) (915) 568-8875 Telephone (DSN) 978-8875 e-mail: atss-dcd@bliss.army.mil
Security Clearance / Access	Unclassified
Foreign Disclosure Restrictions	FD5. This product/publication has been reviewed by the product developers in coordination with the USASMA foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

PREFACE

Purpose

This Training Support Package provides the instructor with a standardized lesson plan for presenting instruction for:

Task Number

Task Title

071-990-0010

Conduct Preparatory Marksmanship Training.

This TSP
Contains

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INTRODUCTION TO THE MULTIPLE LASER ENGAGEMENT SYSTEM (MILES 2000)
T225 (2) / Version 2
01 Oct 2003

SECTION I. ADMINISTRATIVE DATA

All Courses Including This Lesson	<u>Course Number</u>	<u>Version</u>	<u>Course Title</u>
	400-PLDC	1	Primary Leadership Development Course
	400-PLDC PH II	1	Primary Leadership Development Course Phase II
Task(s) Taught(*) or Supported	<u>Task Number</u>	<u>Task Title</u>	
	<u>Individual</u>	071-990-0010 (*) Conduct Preparatory Marksmanship Training	
Reinforced Task(s)	<u>Task Number</u>	<u>Task Title</u>	
	None		
Academic Hours	The academic hours required to teach this lesson are as follows:		
		<u>Resident Hours/Methods</u>	
		1 hr 5 mins / Conference / Discussion	
		45 mins / Practical Exercise (Performance)	
	Test	0 hrs	
Test Review	0 hrs		
	Total Hours:	2 hrs	
Test Lesson Number		<u>Hours</u>	<u>Lesson No.</u>
	Testing (to include test review)	N/A	
Prerequisite Lesson(s)	<u>Lesson Number</u>	<u>Lesson Title</u>	
	None		
Clearance Access	Security Level: Unclassified Requirements: There are no clearance or access requirements for the lesson.		
Foreign Disclosure Restrictions	FD5. This product/publication has been reviewed by the product developers in coordination with the USASMA foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.		

References

<u>Number</u>	<u>Title</u>	<u>Date</u>	<u>Additional Information</u>
TM 6920-10/2	Miles 2000 for ASAAF	27 May 2002	
TM 6920-10/4	Miles 2000 for CD/TDTD	27 May 2002	
TM 6920-10/7	Miles 2000 for M16A2	27 May 2002	

Student Study Assignments

Before Class--

- Read SH-1, SH-2 and SH-3.

During Class--

- Participate in the classroom discussion and practical exercise during STX.

After Class--

- Turn in all recoverable material.

Instructor Requirements

1:8; SSG, PLDC graduate; ITC, SGITC qualified, and attend MILES 2000 training.

Additional Support Personnel Requirements

<u>Name</u>	<u>Stu Ratio</u>	<u>Qty</u>	<u>Man Hours</u>
None			

Equipment Required for Instruction

<u>ID Name</u>	<u>Stu Ratio</u>	<u>Instr Ratio</u>	<u>Spt</u>	<u>Qty</u>	<u>Exp</u>
1265-DETECT MAN-WORN LASER DETECTORS	1:1	1:1	No	8	No
1265-MILESGUN MILES CONTROLLER GUN	1:8	1:1	No	1	No
147660 Small Arms Transmitter (SAT)	1:1	1:1	No	9	No
147995 Automatic Small Arms Alignment Fixture (ASAAF)	1:1	1:1	No	1	No
441-06 LCD Projection System	1:8	1:1	No	1	No
559359 SCREEN PROJECTION	1:8	1:1	No	1	No
6135-00-643-1307 BATTERY, 6 VOLT BA-200	1:1	1:1	No	1	No
6135-00-900-2139 BATTERY, 9 VOLT BA-3090(U)	1:1	1:1	No	1	No
6515-00-137-6345 EAR PLUGS, SET	1:1	1:1	No	1	No
673000T101700 PROJECTOR, OVERHEAD, 3M	1:8	1:1	No	1	No
7110-00-132-6651 CHALKBOARD	1:8	1:8	No	1	No
7110-00-T81-1805 DRY ERASE BOARD	1:8	1:1	No	1	No

7510-01-424-4867 EASEL, (STAND ALONE) WITH PAPER	1:8	1:1	No	1	No
LCE with two canteens of water	1:1	1:1	No	1	No
SNV1240262544393 36 - INCH COLOR MONITOR W/REMOTE CONTROL AND LUXOR STAND	1:8	1:1	No	1	No

* Before Id indicates a TADSS

**Materials
Required**

Instructor Materials:

- TSP
- PE-1
- VGTs
- Controller Device/Training Data Transfer Device (CD/TDTD)

Student Materials:

- Student Handout 1, Advance Sheet.
- Student Handout 2, extract from TM 6920-10/7.
- Student Handout 3, extract from TM 6920-10/2.
- One MILES 2000 infantry system per student.
- One Automatic Small Arms Alignment Fixture (ASAAF) per 8 students.
- One individual M1A1/A2 weapon with blank adapter per student.

**Classroom,
Training Area,
and Range
Requirements**

BIVOUAC AREA
CLASSROOM (40X40 PER 16 STUDENTS)

**Ammunition
Requirements**

<u>Id</u>	<u>Name</u>	<u>Exp</u>	<u>Stu Ratio</u>	<u>Instr Ratio</u>	<u>Spt Qty</u>
A080 -	CTG 5.56MM BLANK M200 F/RIFLE	Yes	2:1	0	0
	M16A1/M16A2				

**Instructional
Guidance**

NOTE: Before presenting this lesson, instructors must thoroughly prepare by studying this lesson and identified reference material.

NOTE: Conduct this lesson at the beginning of the STX. Students must have weapons and earplugs for the sight alignment portion of the instruction.

Before class--

- Read and study all TSP material and be ready to conduct the class.
- This TSP has questions throughout to check on learning or generate discussion among the group members. You may add any questions you deem necessary to bring a point across to the group.
- You must know the information in this TSP well enough to teach from it.
- This TSP presents references to allow you to inform your students where they would look in the reference to follow your instruction.
- Instructor: Read all TSP material.

During class--

- Conduct the class IAW this TSP.

After class--

- Report any lesson discrepancies to the Senior Instructor. Conduct an after action review for the lesson.
-

**Proponent
Lesson Plan
Approvals**

<u>Name</u>	<u>Rank</u>	<u>Position</u>	<u>Date</u>
/s/Benjamin M. Salcido /t/Salcido, Benjamin M.	GS-09	Training Specialist	16 Jul 2003
/s/Brian H. Lawson /t/Barnes, Ronnie G.	MSG	Chief, PLDC	17 Jul 2003
/s/Brian H. Lawson /t/Lawson, Brian H.	SGM	Chief, NCOES	17 Jul 2003
/s/Albert J. Mays /t/Mays, Albert J.	SGM	Chief, CDDD	18 Jul 2003

SECTION II. INTRODUCTION

Method of Instruction: <u>Conference / Discussion</u>
Technique of Delivery: <u>Small Group Instruction (SGI)</u>
Instructor to Student Ratio is: <u>1:8</u>
Time of Instruction: <u>5 mins</u>
Media: <u>None</u>

Motivator

In the past, the most effective training for combat was the experience gained in combat itself. It was deadly, costly, and a soldier's first mistake often was his last. Sometimes, to add realism to training, the Army uses live ammunition. The use of live ammunition is dangerous, and it does not add the realism desired because the trainee knows the other guy isn't trying to hit him. Multiple Integrated Laser Engagement System (MILES 2000) adds realism to combat training. With MILES 2000, the other guy is trying to hit you; he may even do it. But, you'll get another try at him, and another, until you are proficient and as ready for actual combat as modern technology can make you. During this lesson, we will place the MILES 2000 into operation.

Terminal Learning Objective

NOTE: Inform the students of the following Terminal Learning Objective requirements. At the completion of this lesson, you [the student] will:

Action:	Operate the multiple integrated laser engagement system (MILES 2000).
Conditions:	In a classroom and in a tactical environment given a MILES 2000 infantry system TM 6920-10/7 (SH-2) and TM 6920-10/2 (SH-3).
Standards:	Operated the multiple integrated laser engagement system (MILES 2000) by: <ul style="list-style-type: none"> • Conducting preoperational inspection of the MILES 2000. • Aligning the M16A1/A2 using the Automatic Small Arms Alignment Fixture (ASAAF). IAW TM 6920-10/7 (SH-2) and TM 6920-10/2 (SH-3).

Safety Requirements

- Conduct a risk assessment IAW the NCOA's SOP.
- All students must wear hearing protection.
- Enforce the minimum engagement range of six meters.

**Risk
Assessment
Level**

Low. Conduct a risk assessment at the local level based on conditions and use of equipment. Maintain a copy of the assessment on file.

**Environmental
Considerations**

NOTE: It is the responsibility of all soldiers and DA civilians to protect the environment from damage.

None

Evaluation

None

**Instructional
Lead-In**

At the completion of this instruction, you will be able to perform a pre-operational inspection of the MILES 2000 equipment and place the MILES 2000 equipment into operation.

SECTION III. PRESENTATION

NOTE: Inform the students of the Enabling Learning Objective requirements.

A. ENABLING LEARNING OBJECTIVE

ACTION:	Conduct preoperational inspection of the MILES 2000 system.
CONDITIONS:	In a classroom and in a tactical environment given a MILES 2000 system and TM 6920-10/2, TM 6920-10/4, and TM 6920-10/7.
STANDARDS:	Conducted preoperational inspection of the MILES 2000 system IAW TM 6920-10/2, TM 6920-10/4, and TM 6920-10/7.

1. Learning Step / Activity 1. Conduct preoperational inspection of the MILES 2000 system.
Technique of Delivery: Small Group Instruction (SGI)
Method of Instruction: Conference / Discussion
Instructor to Student Ratio: 1:8
Time of Instruction: 10 mins
Media: VGT-1

The MILES 2000 system uses laser beams to simulate actual weapons fire. An eye-safe invisible laser beam is sent out by each weapon's transmitter when you fire it. The laser beam code simulates all of the weapon's capabilities including range, accuracy, and destructive capability.

Laser detector systems sense and detect incoming fire. The detector systems register incoming laser beams and determine whether they scored a near miss, hit, or kill. Incoming fire can result in more than one type of a hit or kill for vehicles. Types of hits or kills include mobility, communications, firepower, or a catastrophic kill of an entire vehicle.

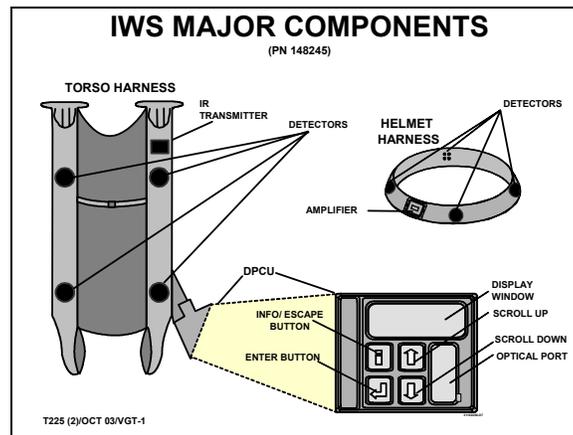
Ref: TM 6920-10/7 (SH-2)

We will begin the lesson by identifying the MILES 2000 major equipment. The Individual Weapon System (IWS) allows the soldier to take an active part in realistic combat training exercises. The MILES 2000 system can simulate the firing conditions of all weapons. We will concentrate on the M16A1/A2.

We will now look at the Individual Weapon Systems pieces of equipment included in the MILES 2000.

NOTE: Show the VGT and have a student hold up each piece of equipment as you describe it. This will ensure that the students recognize the equipment.

SHOW VGT-1, IWS MAJOR COMPONENTS



Ref: TM 6920-10/7 (SH-2), p 1-6, para 1.9.1a

NOTE: Explanation for the button control functions of the DPCU are in TM 6920-10/7 (SH-2) p 2-3. Discuss them with the students

The major components of the MILES 2000 are the manworn portion which consists of a Torso Harness with the Individual Weapon System (IWS) console Data Processing Control Unit (DPCU), a Helmet Harness, and fastener tape or safety pins (used to secure the Helmet Harness). The Harness Set has the following:

- (1) Detectors – receive coded messages from laser transmitters.
- (2) Amplifier – amplifies coded messages received from incoming laser transmitters and forwards them to the IWS Console (DPCU) for decoding.
- (3) Infrared (IR) Transmitter – transmits information which links the Torso Harness and the weapon's Small Arms Transmitter (SAT).
- (4) Audio Alarm – indicates the laser signal received.
- (5) Helmet Inductive Loop – transfers information from the Helmet Harness detectors to the Torso Harness IWS Console (DPCU) for processing. The Helmet Harness Amplifier is powered by an internal 3.6-volt lithium battery with a 3-year battery life.
- (6) IWS Console (DPCU) – Data Processing Control Unit for the IWS – provides user interface and decodes the laser and IR transmitted data for the IWS.

QUESTION: What is the other IWS component?

ANSWER: The Small Arms Transmitter (SAT).

Ref: TM 6920-10/7 (SH-2), p 1-7, para 1.9.1b

Adaptation for the specific weapon is through a factory set laser and attaching the weapon specific mounting adapter. The factory adjusts the laser power to

represent the specific weapon type and simulate its firing capabilities. The SAT receives its power from an internal 3.6-volt lithium battery with a 3-year battery life. A properly installed and aligned, using the automated small arms alignment fixture (ASAAF), SAT ensures the weapon's accuracy.

REMOVE VGT-1

Ref: TM 6920-10/7 (SH-2), p 1-9

We will now discuss the basic principles of operation. You may use the IWS as a stand-alone MILES 2000 piece of equipment for dismounted troops or in conjunction with MILES 2000-equipped vehicles, surrogate weapons, or crew-served weapons. You can fire Individual weapons by using normal procedures. The weapons use blank ammunition and must have blank firing adapters (BFA) attached. The SAT senses the sound and flash of blank fire, which triggers the weapons transmitter. The laser transmitter will operate as long as you fire blank ammunition.

The Torso Harness and Helmet Harness of the IWS have detectors mounted on them, which generate electrical signals that are fed to the IWS console (DPCU) attached to the Torso Harness. The IWS Console (DPCU) identifies the type of weapon and the player (PID) that fired the incoming laser beam. It determines whether the laser shot was accurate enough to cause a *kill* or whether a *near miss* occurred. It also determines the probability of kill (Pk) for that weapon. The probability of killing a target is different for each type of attacking weapon.

Each individual wears a Helmet Harness equipped with four laser detectors, a Torso Harness equipped with eight laser detectors, an IWS Console (DPCU) attached to the Torso Harness and an audio alarm. When the detectors on the IWS sense a MILES 2000-equipped weapon fired, one of three things will happen:

- a. Alarm sounds briefly two times --a *near miss* occurred.
- b. Alarm sounds continuously --individual killed. The enabling of a SAT will cause the alarm to sound continuously until the controller locates and disables the SAT.
- c. Alarm sounds briefly four times--the controller reset the IWS.

NOTE: Inform the students that Table 1-5 has the kill indication chart.

CHECK ON LEARNING:

QUESTION: What are the components that make-up the manworn portion of the IWS?

ANSWER: A Torso Harness with the DPCU and the Helmet Harness.

Ref: TM 6920-10/7 (SH-2), p 1-6, para 1.9.1a

2. Learning Step / Activity 2. Install the IWS equipment.
Method of Instruction: Conference / Discussion
Technique of Delivery: Small Group Instruction (SGI)
Instructor to Student Ratio: 1:8
Time of Instruction: 20 mins
Media: VGT-2

NOTE: At this time, call on two students--one to demonstrate how to install the Harness on a standard helmet and one to demonstrate how to inspect and put on a Torso Harness. Refer the students to pages TM 6920-10/7 (SH-2), p 2-9, Fig 2-5, and p 2-23, Fig 2-14. As a minimum, the student should install the Helmet Harness using steps a, b, and c on p 2-9. The Torso Harness installation should include steps a, b, c, and d in SH-2, p 2-23.

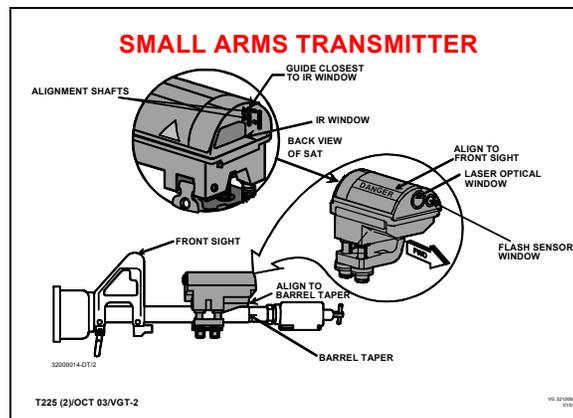
We will now install the SAT on an M16A2. This is a critical procedure so you must be careful and follow the procedure found in TM 6920-10/7 (SH-2), pp 2-10 and 2-11.

WARNING

Ensure the weapon has the correct blank fire adapter. Attach the adaptor to the weapon correctly. Failure to install the blank adapter when firing blank ammunition could result in serious injury or death.

NOTE: Inspect the front and rear windows of the SAT. Ensure that they are free from dirt and carbon buildup. If not, clean them.

SHOW VGT-2, SMALL ARMS TRANSMITTER



Ref: TM 6920-10/7(SH-2), p 2-11

- a. Loosen the SAT socket head capscrews and open the clamp.
- b. Hold the SAT with the Laser Optical Window pointing forward. Place the SAT on the barrel of the rifle (forward of the front sight) aligning the front of the SAT housing to the start of the barrel taper.
- c. With the barrel of the rifle pointed downrange, look toward the front sight. Position the SAT so that the **white** line above the **danger** label on the SAT (or the Guide closest to the IR Window) aligns with the front sight.

CAUTION: Use care when starting cap screws not to cross threads. **DO NOT** use any tools to tighten cap screws until directed.

- d. Close the clamp and tighten the SAT socket head capscrews equally until finger tight.
- e. Torque the SAT socket head capscrews to 85 inch-pounds using the torque wrench supplied in the ASAAF kit.
- f. Align the SAT using the ASAAF. Refer to TM 6920-10/2 (SH-3), ASAAF OPS Manual.

NOTE: After installing the alignment head on the SAT, ensure that you locate the scope crosshair within the heads up display (Optic unit). If not, repeat steps c. thru e. of paragraph 2.3.1.3.1 in SH-2, p 2-11.

CHECK ON LEARNING: The practical exercise will serve as a check on learning for this ELO.

- 3. Learning Step / Activity 3. Perform alignment procedure using the ASAAF.
 - Method of Instruction: Conference / Discussion
 - Technique of Delivery: Small Group Instruction (SGI)
 - Instructor to Student Ratio: 1:8
 - Time of Instruction: 15 mins
 - Media: None

We will now perform an alignment procedure to prepare you for the practical exercise.

NOTE: Refer the students to Student Handout 3 for this procedure. Select two students to perform the alignment as you talk them through the procedure. For this portion of the lesson, use the procedures found in the reference below.
FM 6920-10-2 (SH-3) pp 2-5 thru 2-8

NOTE: Upon completion of the alignment procedure, ensure the students know how to run a functional check on the MILES 2000 system IAW TM 6920-10/7 (SH-2), p 2-31.

CHECK ON LEARNING: The practical exercise will serve as a check on learning for this ELO.

B. ENABLING LEARNING OBJECTIVE

ACTION:	Align sights to engage a target with the MILES 2000 system.
CONDITIONS:	In a classroom and in a tactical environment given a MILES 2000 system and TM 6920-10/2, TM 6920-10/4, and TM 6920-10/7.
STANDARDS:	Aligned sights to engage a target with the MILES 2000 system by: <ul style="list-style-type: none">• Installing the IWS equipment.• Installing and aligning the SAT.• Performing a MILES 2000 functions check. IAW TM 6920-10/2, TM 6920-10/4, and TM 6920-10/7.

1. Learning Step / Activity 1. Align sights to engage a target with the MILES 2000 system.
Method of Instruction: Practical Exercise (Performance)
Technique of Delivery: Small Group Instruction (SGI)
Instructor to Student Ratio: 1:8
Time of Instruction: 45 mins
Media: PE-1

Aligning the laser transmitter utilizing the ASAAF serves the same purpose as zeroing your weapon on a range. It gives you the ability to hit what you aim at. With the MILES 2000 system you “zero” the SAT to the weapon. Because you **must not** move the weapon during alignment, a recommendation is that you place the weapon on a support such as a bipod or sand bag. The alignment procedure is a two-person operation, with one holding the weapon steady and the other operating the controls on the Display Assembly.

NOTE: Use the student handouts for this portion of this lesson. You must cover the components, setup, and operation of the ASAAF.

CHECK ON LEARNING: The practical exercise serves as a check on learning for this ELO.

SECTION IV. SUMMARY

Method of Instruction: <u>Conference / Discussion</u>
Technique of delivery: <u>Small Group Instruction (SGI)</u>
Instructor to Student Ratio is: <u>1:8</u>
Time of Instruction: <u>5 mins</u>
Media: <u>None</u>

Check on Learning

QUESTION: What are the six items that are part of the manworn Harness Set of the MILES 2000 system?

ANSWER: They are:

- Detectors
- Amplifier
- Infrared transmitter
- Audio alarm
- Helmet inductive loop
- IWS console

Ref: TM 6920-10/7 (SH-2), pp 1-6 and 1-7

QUESTION: What does the audio alarm on the MILES 2000 sounding briefly two times signify?

ANSWER: A Near Miss occurred.

Ref: TM 6920-10/7 (SH-2), p 1-9

QUESTION: What are the components of the Helmet Harness?

ANSWER? The Helmet Harness consists of a wide elasticized band with four detectors, an amplifier, and nine fastener strip extensions.

Ref: TM 6920-10/7 (SH-2), p 2-9

QUESTION: What is the torque setting used to ensure proper SAT installation on an M16A2?

ANSWER: 85 inch-pounds.

Ref: TM 6920-10/7 (SH-2), p 2-13

Review / Summarize Lesson

MILES 2000 is the closest simulation to actual combat to date. It tests your skills and builds a competitive spirit. The idea of the MILES 2000 system is to find out the tactical mistakes you're making so you can correct them before you become a human target for live ammunition in combat. During the last two hours we conducted preoperational inspections on the MILES 2000 system, put the system into operation, and learned how to adjust the sights on the MILES 2000 system.

SECTION V. STUDENT EVALUATION

**Testing
Requirements**

NOTE: Describe how the student must demonstrate accomplishment of the TLO. Refer student to the Student Evaluation Plan.

None

**Feedback
Requirements**

NOTE: Feedback is essential to effective learning. Schedule and provide feedback on the evaluation and any information to help answer students' questions about the test. Provide remedial training as needed.

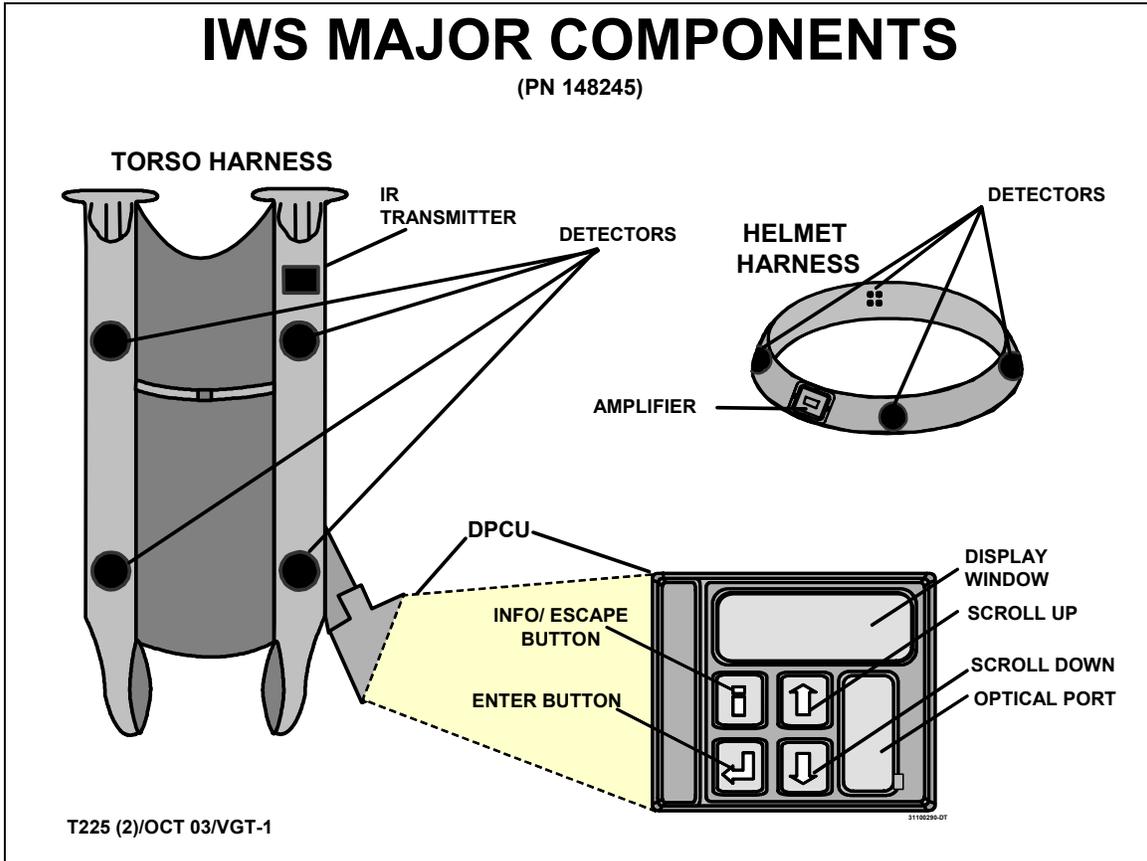
The AAR will serve as the feedback for this lesson.

VIEWGRAPHS FOR LESSON 1: T225 (2) version 2

Enabling Learning Objective A

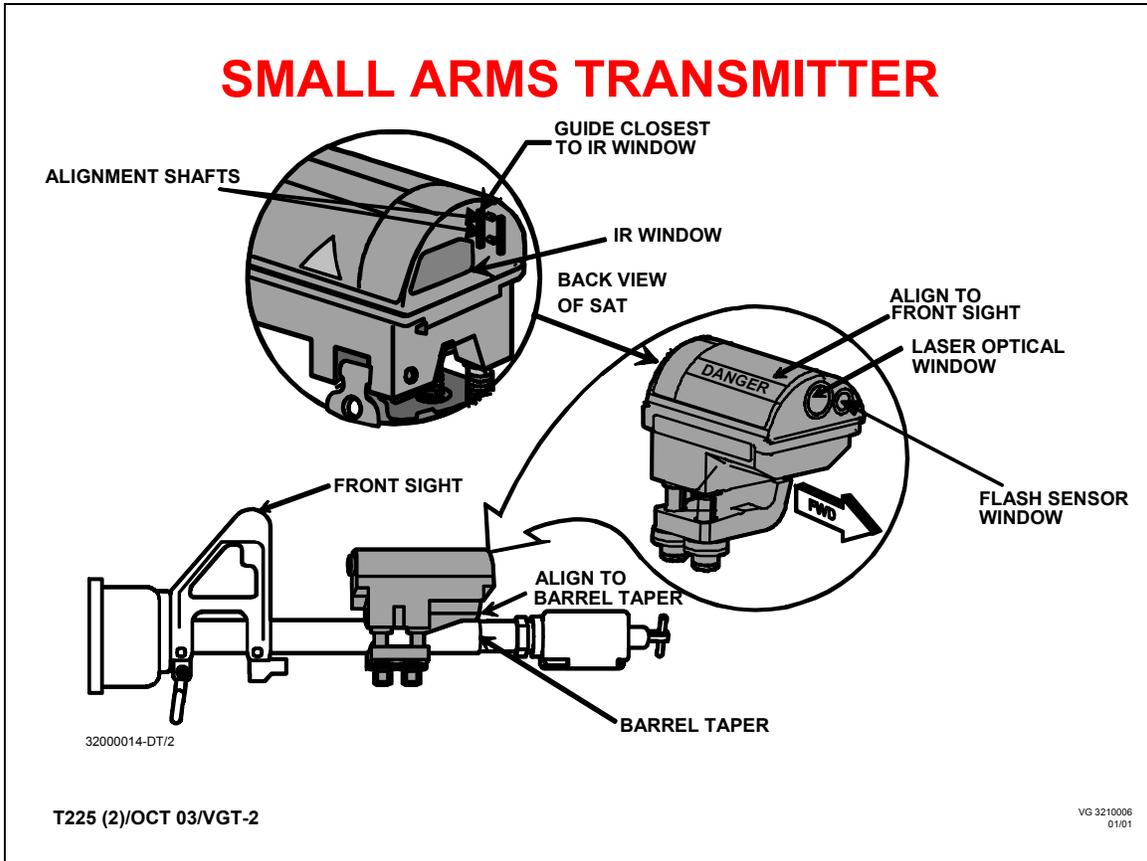
Learning Step 1

VGT-1, IWS MAJOR COMPONENTS



Learning Step 2

VGT-2, SMALL ARMS TRANSMITTER



Appendix B Test(s) and Test Solution(s) (N/A)

PRACTICAL EXERCISE 1 SHEET T225 (2)

Title Adjust the M16A1/A2 small arms transmitter (SAT).

Lesson Number/Title T225 (2) Version 2 / INTRODUCTION TO THE MULTIPLE LASER ENGAGEMENT SYSTEM (MILES 2000)

Introduction Aligning the laser transmitter on the MILES 2000 system serves the same purpose as zeroing your weapon on a range. It gives you the ability to hit what you aim at.

Motivator In the past, the most effective training for combat was the experience gained in combat itself. It was deadly, costly, and a soldier's first mistake often was his last. During this exercise, we will place the MILES 2000 system into operation.

Terminal Learning Objective **NOTE:** The instructor should inform the students of the following Terminal Learning Objective covered by this practical exercise.

At the completion of this lesson, you [the student] will:

Action:	Operate the multiple integrated laser engagement system (MILES 2000).
Conditions:	In a classroom and in a tactical environment given a MILES 2000 system and TM 6920-10/7 (SH-2) and TM 6920-10/2 (SH-3).
Standards:	Operated the multiple integrated laser engagement system (MILES 2000) by: <ul style="list-style-type: none"> • Conducting preoperational inspection of the MILES 2000. • Aligning the M16A1/A2 using the Automatic Small Arms Alignment Fixture (ASAAF). <p>IAW TM 6920-10/7 (SH-2) and TM 6920-10/2 (SH-3).</p>

Safety Requirements

- All students must wear hearing protection.
- Enforce the minimum engagement range of six meters.

Risk Assessment Level Low. Conduct a risk assessment IAW the NCOA's SOP.

Environmental Considerations None

Evaluation None

Instructional Lead-In At the completion of this instruction, you will be able to perform a preoperational inspection of the MILES 2000 equipment and place the MILES 2000 equipment into operation by aligning the SAT using the ASAAF.

Resource Requirements

Instructor Materials:

- TSP
- PE-1
- VGTs
- Controller Device/Training Data Transfer Device (CD/TDTD)

Student Materials:

- Student Handout 1, Advance Sheet.
- Student Handout 2, extract from TM 6920-10/7.
- Student Handout 3, extract from TM 6920-10/2.
- One MILES 2000 infantry system per student.
- One Automatic Small Arms Alignment Fixture (ASAAF) per 8 students.
- One individual M1A1/A2 weapon with blank adapter per student.

Special Instructions

Conduct this lesson at the beginning of the STX.

Procedures

Use SH-2 and SH-3 and have each student perform the following items. You have 45 minutes to conduct the exercise. Give each student a 10 minute break when convenient. Do not dismiss the students until they all complete the exercise.

1. Install and wear the following equipment using the student handouts as a guide.
 - a. Standard Helmet Harness.
 - b. Torso Harness.
 - c. Small Arms Transmitter (SAT)
2. Align the SAT using the Automatic Small Arms Alignment Fixture (ASAAF).
3. Perform a functions test.

Feedback Requirements

The AAR will serve as the feedback for this lesson.

**SOLUTION FOR
PRACTICAL EXERCISE T225 (2)**

The AAR immediately following the practical exercise will serve as the solution for this PE.

HANDOUTS FOR LESSON 1: T225 (2) version 2

This Appendix Contains This appendix contains the items listed in this table--

Title/Synopsis	Pages
SH-1, Advance Sheet	SH-1-2 thru SH-1-3
SH-2, Extracted material from TM 6920-10/7	SH-2-1
SH-3, Extracted material from TM 6920-10/2	SH-3-1