TRAINING SUPPORT PACKAGE (TSP)

TSP Number/Title	55B40C20 Annex C Part II Review
Task Number(s)/ Title(s)	093-400-4277 Determine Compliance with Storage and Transportation Requirement 093-400-4281 Inspect Munitions Prepared for Air Shipment 093-400-4286 Monitor Port Operation
Effective Date	21 August 1998
Supersedes TSP(s)	
TSP User	USAOMMCS, Redstone Arsenal, Alabama and accredited Ordnance TASS Battalion
Proponent	US Army Ordnance Missile and Munitions Center and School, Munitions Training Department, Redstone Arsenal, AL 35897-6970
Comments/ Recommen-dations	Send comments and recommendations directly to: US Army CASCOM Training Directorate ATTN: ATCL, AO (Roy King) Bldg 1109, 401 First Street Ft. Lee, VA 23801-1713 (e-mail: Kingrl@Lee-dns1.army.mil)
Foreign Disclosure Restrictions	If Allied students are scheduled to attend this class, coordination with Security Division (ATSK-AS) is required to determine if the information can be released to Allied students.

Preface

Purpose

Review all TLOs and ELOs for Annex C Part II Lessons.

This TSP Contains

(21 August 1998)

SECTION I. ADMINISTRATIVE DATA

All Courses Including this Lesson

COURSE NUMBER(S)	COURSE TITLE(S)
645-55B40	Ammunition Specialist, ANCOC

Task(s) Taught or Supported

TASK NUMBER	TASK TITLE
None	

Reinforced Task(s)

TASK NUMBER	TASK TITLE
None	

Academic Hours

The academic hours required to teach this lesson are as follows:

	ADT HOURS/METHOD
Conference	1.0 / CO
Total hours	1.0

Test Lesson Number

	Hours	Lesson No.
Testing:	4.0 TE2	55B40C21
Review of test results:	1.0 CO	55B40C22

Prerequisite Lesson(s)

LESSON NUMBER	LESSON TITLE
55B40C09 through 55B40C19	

Clearance and Access

Unclassified - If Allied students are scheduled to attend this class, coordination with Security Division (ATSK-AS) is required to determine if the information can be released to Allied students.

References Required

Number	Title	Date	Additional Information
AR 190-11	Physical Security of Arms, Ammunition, and Explosives	30 SEPT 93	
AR 55-355	Defense Traffic Management Regulation	31 JUL 93	
TM 38-250	Preparing Hazardous Materials for Military Air Shipment	25 NOV 94	
TM 9-1300-206	Ammunition and Explosives Standards,	30 AUG 73	
TM 9-1300-250	Preparation of Hazardous Materiel for Shipment	15 JAN 88	
MIL-HDBK 138A	Container Inspection Handbook for Commercial and Military Intermodal Containers	14 AUG 78	

Related None

Student Study Assignments Review all notes and student issue for Annex C Part II.

Instructor Requirements One instructor

Additional Support Personnel Requirements None

Equipment Required Overhead Projector

Materials Required	INSTRUCTOR MATERIALS: Viewgraphs 55B40B20, VG#1 - VG#15 STUDENT MATERIALS: All Annex C Part II student issue
Classroom, Training Area, and Range Requirements	One 30-person classroom
Munitions Requirements	None
Instructional Guidance	Before presenting this lesson, instructors must thoroughly prepare by studying this lesson and identified reference material.

Proponent Lesson Plan Approvals

Name	Rank	Position	Date

SECTION II. INTRODUCTION

Method of instruction: CO
Instructor-to-student ratio: 1:12
Time of instruction: 0.1 hours

Motivator

Good morning/afternoon, class. I am _____. I will be your primary instructor for this lesson. This review is to refresh your memory and reinforce the essential knowledge and skills that you have been taught during the lessons and practical exercises. It also serves to answer your questions about subjects covered in this annex.

Terminal Learning Objective

N/A

Safety Requirements

None

Risk Assessment Level

Low

Environmental Considerations

None

Evaluation

Written End of Annex Examination. The student must score a minimum of 70 percent to achieve a GO.

Note:

Show VG01 (Title Slide).

Instructional Lead-in

During this lesson, we will review each TLO and ELO to ensure you fully understand the task requirements.

SECTION III. PRESENTATION

1. Learning Step/Activity 1: Review each TLO and ELO for Annex C Part II Lessons.

Method of instruction: CO
Instructor-to-student ratio: 1:12
Time of instruction: 0.8 hours
Media: Viewgraphs

Note: **Show VG02 (TLO for 55B40C09).**

a. Terminal Learning Objective.

Action: Determine compliance with movement regulations.

Standard: Demonstrate an understanding of the uses of the provided publications for determining compliance with movement regulations by correctly answering 4 out of 5 questions.

Note: **Use the questions below to facilitate discussion on the lesson.**

1. Who is responsible for observance of DOT and local regulations when munitions or explosives are shipped by government operated vehicles?

2. Under what circumstances is it permissible to transport munitions in a motor vehicle without explosive placards?

3. Which form should be used to provide drivers of explosive laden vehicles with fire fighting instructions?

4. What publication gives instructions on packaging and handling hazardous material by air?

5. Under which part and subpart of Handout CFR 49 will information about LABELING be found?

ANSWERS

1. The commanding officer, shipping officer, or shipper.

2. A vehicle is escorted by a representative of a state or local government. The carrier has permission from the department. Movement of the transport vehicle is necessary to protect life or property.

3. DD Form 836.

4. TM 38-250.

5. CFR 49 Part 172, subpart E.

Note: **Show VG03 (TLO for 55B40C10).**

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b. Terminal Learning Objective.

Action: Inspect Munitions Prepared for Air Shipment.

Standard: Ensure that the munitions and documents are accurately prepared for air shipment.

Note: **Use the following questions to facilitate discussion on the lesson.**

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1. What is required when shipments involve an item with multiple hazards?

2. What should be done with packages showing evidence of leakage (moisture or staining) or other suspected damage?

3. Changes can be made to what keys of the Shipper's Declaration for Dangerous Goods form without affecting the certification?

ANSWERS

1. Certify the shipment to the highest hazard class and identify other hazards by providing the proper shipping name (PSN), hazard class, and quantity in the supplemental block of the Shipper's Declaration for Dangerous Goods form.

2. Reject until corrective action is taken to ensure the item is safe for shipment. Properly store suspect packages containing explosive material pending disposal or repair.

3. Changes to keys 2, 3, 8, 9, and 19 can be made by anyone without affecting the certification. All other key changes must be made by the certifying official.

Note: **Show VG04 (TLO Lesson 55B40C11).**

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c. Terminal Learning Objective.

Action: Identify Quantity-Distance Requirements for Port Operations.

Standard: The students will identify Quantity-Distance requirements pertaining to munitions management of port operations.

Note: **Use the following questions to facilitate discussion on the lesson.**

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1. What is quantity-distance (Q-D)?

2. How is separation distance measured for ships at a pier?

3. What should be done if it is impracticable to separate berths at a single pier by enough distance to prevent mass detonation of 1.1 munitions?

ANSWERS

1. Quantity-distance (Q-D) is a measurement that consists of the quantity of explosive material and the distance separation relationships that provides for defined types of protection.

2. Separation distance for ships at a pier is the measurement between ships: The measurement shall be from the nearest point of each ship.

3. All such ships are grouped together as one large Possible Explosion Site (PES).

Note: **Show VG05 (TLO 55B40C12).**

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d. Terminal Learning Objective.

Action: Identify regulatory requirements pertaining to munitions management of port receipt, storage, and shipment operations.

Standard: The students will receive, overview, and identify regulatory requirements pertaining to munitions management of port receipts, storage, and shipment operations.

Note: **Use the following questions to facilitate discussion on the lesson.**

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1. Where is the procedure for preparing a rail car for a shipment of Class "1.1" explosives?

2. What publication gives information on preparation of DD Form 626, Motor Vehicle Inspection?

3. What form is used for reporting an improperly packed or marked shipment that has been received by rail?

ANSWERS

1. CFR Subpart E, para 174.104
2. AR 55-355.
3. SF 364

Note: **Show VG06 (TLO 55B40C13).**

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e. Terminal Learning Objective.

Action: Identify procedures for port operations involving rail shipments.

Standard: Identify the procedures used for conducting port operations involving rail shipments

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Note: **Use the following questions to facilitate discussion on the lesson.**

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1. In what publication will you find the requirements for a "Car Certificate"?

2. What must be done to a rail car that has a metal floor/plates, before it can be loaded with munitions?

3. During your inspection of a rail car interior, what are you looking for that would make the rail car unsat?

4. You are inspecting the brakes on a rail car and find the brake will not set, what will you do with the rail car?

5. Before sealing the rail car, where should you record the serial number of the seal?

6. What should be used to ensure the load in a rail car is properly blocked and braced?

ANSWERS

1. CFR 49.
2. It must be covered with wood or fiber.
3. Loose boards, decayed wood, cracks, holes in the sides, end or roof, nails and bolts protruding, etc.
4. Reject the rail car.
5. On the Government Bill of Lading (GBL).
6. Drawings.

Note: **Show VG07 (TLO 55B40C14).**

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f. Terminal Learning Objective.

Action: Identify procedures for port operations involving trucks and containerized shipments.

Standard: Identify procedures for port operations involving trucks and containerized shipments.

Note: **Use the following questions to facilitate discussion on the lesson.**

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1. When inspecting a vehicle loaded with munitions prior to its departure, what would you check first to determine if the load is acceptable?

2. What items must be checked on DD Form 626 prior to the release of a motor vehicle loaded with munitions at origin?

3. What is the maximum amount of splices, a door header may have and still be serviceable?

4. Why is a heavily oil-stained floor not acceptable when inspecting a MILVAN?

5. How many horizontal slotted rails are used by the MILVAN Restraint System (load bracing system)?

6. What indicates the next reinspection date of a container?

ANSWERS

1. Item 23, Compatibility.
2. Items 23 through 30 of DD Form 626.
3. One splice in the door header.
4. A heavily stained floor will damage the cargo.
5. 8 horizontal slotted rails.
6. CSC Safety plate.

Note: **Show VG08 (TLO 55B40C15).**

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g. Terminal Learning Objective.

Action: Inspect Intermodal Dry Cargo Container (MILVAN).

Standard: Inspect the container for serviceability, detect and note all deficiencies on a locally produced MILVAN Inspection Report.

Note: **This Lesson is a Practical Exercise.**

Note: **Show VG09 (TLO for 55B40C16).**

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e. Terminal Learning Objective.

Action: Identify procedures for port operations involving vessel shipments.

Standard: Identify the procedures used for conducting port operations involving vessel shipments.

Note: **Use the following questions to facilitate discussion on the lesson.**

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1. Who prepares the dangerous cargo manifest?
2. Who may suspend the use of power operated equipment?
3. What must be used when a draft of Division 1.1 or 1.2 (Class A and B explosive) materials is deposited on deck?
4. How are the switches or circuit breakers secured?
5. What are the three types of magazine stowage?

ANSWERS

1. The carrier.
2. The COTP.
3. A landing mat.
4. Secured by a locked padlock under the control of a responsible person.
5. Special Stowage, Deck Stowage, and Portable Magazine.

Note: **Show VG10, 11, and 12 (TLO for 55B40C17).**

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i. Terminal Learning Objective.

Action: Monitor port receipt operations.

Standard: The student will demonstrate ability to monitor port receipt operations in accordance with appropriate regulatory requirements by correctly solving written problems with seventy percent accuracy.

Enabling Learning Objective #1

Demonstrate proficiency in the use of applicable regulatory guidelines regarding inspection procedures for port operations involving vessels.

Enabling Learning Objective #2

Demonstrate proficiency in the use of applicable regulatory guidelines regarding inspection procedures for port operations involving rail cars.

Enabling Learning Objective #3

Demonstrate proficiency in the use of applicable regulatory guidelines regarding inspection procedures for port operations involving motor vehicles.

Enabling Learning Objective #4

Demonstrate proficiency in the use of applicable regulatory guidelines regarding inspection procedures for port operations involving a MILVAN.

Enabling Learning Objective #5

Demonstrate proficiency in the use of applicable regulatory guidelines for determining quantity distance and compatibility requirements for port operations.

Note: **This Lesson is a Practical Exercise.**

Note: **Show VG13 (TLO for 55B40C18).**

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j. Terminal Learning Objective.

Action: Determine Compliance with Storage and Transportation Security Requirements.

Standard: Correctly determine storage and transportation security requirements in accordance with CFR 49 and AR 190-11.

Note: **Use the following questions to facilitate discussion on the lesson.**

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1. When transporting confidential and sensitive material who is responsible for transportation security procedures?

2. How many personnel are required by an armed guard surveillance?

3. What is the minimum height of a fence at an explosive storage area?

4. What must be provided for carriers who have shipments that are delivered after duty hours?

ANSWERS

1. The commander MTMC.

2. Two.

3. Six feet.

4. Temporary holding area.

Note: **Show VG14 (TLO for 55B40C19).**

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k. Terminal Learning Objective.

Action: Identify radiation hazards associated with munitions.

Standard: Receive an overview of the types of radiation hazards that are associated with munitions.

Note: **Use the following questions to facilitate discussion on the lesson.**

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1. What radiation is the most highly penetrating radiation?

2. Where are the instructions for performing the APFSDS-T cartridge swipe test contained?

3. Who is the governing authority for radioactive materials?

4. What is the hazard associated with Depleted Uranium and what precautions should be taken when working it?

ANSWERS

1. Gamma radiation.

2. Appendix L, SB 742-1.

3. The NRC is the governing authority for radioactive materials.

4. Depleted Uranium is an alpha particle emitter, it is primarily an internal hazard. After any operation involving DU, such as inspection of projectiles or empty containers that contained DU, you must wash thoroughly to remove any alpha particle contamination. Also, if it is possible to breath in any DU, you must wear breathing protection. Activities at sites where DU is stored should be limited to doing what must be done and getting away from the DU. The idea is to limit your exposure to the possibility of becoming contaminated. While you are involved in operations with DU, do not take unnecessary time or breaks, or eat or drink in that area.

SECTION IV. SUMMARY

Note: **Show VG15 (Summary).**

Method of instruction: CO
Instructor-to-student ratio: 1:12
Time of instruction: 0.1 hours

Review/ Summarize Lesson

During this lesson we have reviewed the Annex C Part II lessons in preparation for the End of Annex Examination.

Check on Learning

Determine if students have learned the material presented by:

a. Soliciting student questions and explanations.

b. Asking questions and getting answers from the students.

c. Correcting student misunderstandings.

Transition to Next Lesson

Your next lesson will be the End of Annex Examination.

SECTION V. STUDENT EVALUATION

Testing Requirements	Upon completion of this annex, your performance will be evaluated by an End of Annex Examination.
Feedback Requirement	a. Schedule and provide feedback on the evaluation and any information to help answer students' questions about the test. b. Provide remedial training as needed.
Note:	Rapid, immediate feedback is essential to effective learning.