

Explosives/Hazardous Materials Transport



QUALIFICATION TRAINING PACKAGE

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Section 1—OVERVIEW

1.1. Overview.

1.1.1. Send comments and suggested improvements on AF Form 847, *Recommendation for Change of Publication* through Air Force Installation and Mission Support Center (AFIMSC) functional managers via e-mail at AFIMSC.IZSL.VehicleOps@us.af.mil.

1.1.2. How to use this plan:

1.1.2.1. Trainer.

1.1.2.1.1. Provide overview of training, **Section 2** and **Section 3**.

1.1.2.1.2. Trainer's lesson plan for trainee preparation, give classroom lecture, **Section 4**.

1.1.2.1.3. Trainer's lesson plan for computer-based training (CBTs) and the American Association of Motor Vehicle Administrators (AAMVA) *Commercial Driver's License (CDL) Manual*, **Section 4**.

1.1.2.1.4. Trainer's lesson plan for knowledge overview, **Section 5**.

1.1.2.1.5. Trainer's lesson plan for demonstration, performance and evaluation, **Section 6** and **Attachment 4**.

1.1.2.2. Trainee.

1.1.2.2.1. Reads Section 2 and Section 9 in the AAMVA *CDL Manual* prior to starting lecture.

1.1.2.2.2. Follows along with lecture using this Qualification Training Package, its attachments and the AAMVA *CDL Manual*.

1.1.2.2.3. Accomplishes the required CBTs and performance test identified in **Section 4** and **Attachment 4**.

Section 2—RESPONSIBILITIES

2.1. Responsibilities.

2.1.1. The trainee shall:

2.1.1.1. Ensure the trainer explains the Air Force Qualification Training Package (AFQTP) process and the trainee's responsibilities.

2.1.1.2. Review the Explosives/Hazardous Materials Transport QTP with the trainer.

2.1.1.3. Review Sections 2 and 9 of the AAMVA *CDL Manual* with the trainer.

2.1.1.4. Review Chapter 8, AFMAN 91-201, *Explosives Safety Standards*.

2.1.1.5. Review applicable command and local directives.

2.1.1.6. Ask questions if he/she does not understand the objectives for each section.

2.1.1.7. Complete training requirements identified in **Section 4**.

2.1.2. Trainer shall:

2.1.2.1. Review this QTP, Chapter 8, AFMAN 91-201 and Sections 2 and 9 of the AAMVA *CDL Manual* and applicable command and local directives with the trainee.

2.1.2.2. Conduct knowledge training with the trainee using the Explosives/Hazardous Materials Transport QTP and the AAMVA *CDL Manual*.

2.1.2.3. Review questions with the trainee to ensure the required task knowledge has been gained to complete the task.

2.1.3. The Certifier shall:

2.1.3.1. Evaluate the Airman's task performance without assistance.

2.1.3.2. Add the Hazardous Material certification to the member's on-the-job-training (OJT) records.

Section 3—INTRODUCTION

3.1. Objectives.

3.1.1. Given lectures, computer-based training and demonstrations, trainees will be able to successfully complete all training requirements identified in **Section 4**.

3.1.1.1. Ensure the trainee becomes trained and qualified as an operator for the ground transportation of explosives/hazardous material; an operator who has the knowledge and skills for safe and professional explosives/hazardous material ground transportation.

3.2. Desired Learning Outcome.

3.2.1. Understand the safety precautions to be followed pre-, during- and post-operation of explosives/hazardous material.

3.2.2. Understand the purpose of explosives/hazardous material ground transportation and the role of explosives/hazardous material ground transportation in the mission.

3.2.3. Know the proper inspection and transport procedures for explosives/hazardous material shipments.

3.3. Lesson Duration.

3.3.1. Recommended initial instructional and hands on training time is 10 hours:

Table 3.1. Recommended Initial Training Time for Training Activities.

Training Activity	Training Time
Trainee's Preparation	2 Hours
Instructor's Lecture	3 Hours
Trainee's Computer-Based Testing	3 Hours
Instructor's Demonstration	1 Hour
Performance Evaluation	1 Hour

Note: This is a recommended time; training time may be more or less depending how quickly a trainee learns new tasks.

3.3.2. Recommended initial/biennial instructional and hands on training time is 4 hours:

Table 3.2. Recommended Initial/Biennial Training Time for Training Activities.

Training Activity	Training Time
Trainee's Computer-Based Testing	3 Hours
Performance Evaluation	1 Hour

Note: This is a recommended time; training time may be more or less depending how quickly a trainee accomplishes required tasks.

3.4. Instructional References.

3.4.1. Explosives/Hazardous Materials Transport QTP.

3.4.2. AAMVA *CDL Manual*:

3.4.3. U.S. Department of Transportation (DOT) - Pipeline and Hazardous Materials Safety Administration (PHMSA) Outreach & Training website - <http://dothazmat.vividlms.com/>.

3.4.4. Command and local directives. **Note:** Ensure that applicable international regulations, requirements and restrictions are reviewed and adhered to for overseas bases, if operating off-base.

3.4.5. Risk Management (RM) and Safety Principles IAW Air Force Pamphlet (AFPAM) 90-803, *Risk Management (RM) Guidelines and Tools*.

3.4.6. Applicable Technical Orders (TOs) or Manufacturer's Operator's Manual (see Vehicle Management for TO number for vehicle being used in training).

3.4.7. Applicable Vehicle Training Packages (lesson plans), e.g. petroleum tank vehicles, tractor-trailer, forklift, etc.

3.4.8. AFJMAN 23-209, *Storage and Handling of Hazardous Materials*

3.4.9. AFMAN 24-306, *Operation of Air Force Government Motor Vehicles*.

3.4.10. AFMAN 91-201, *Explosives Safety Standards*, Chapter 8.

3.4.11. Air Force Instruction (AFI) 24-301, *Ground Transportation*, 1 November 2018.

3.4.12. AFI 91-202, *The US Air Force Mishap Prevention Program*.

3.4.13. AFI 91-203, *Air Force Consolidated Occupational Safety Standard*.

3.4.14. Defense Transportation Regulation (DTR) 4500.9-R, part II, *Cargo Movement*; on-line at <https://www.ustranscom.mil/dtr/dtrp2.cfm>.

3.4.15. DoD 5100.76-M, *Physical Security of Sensitive Conventional Arms, Ammunition and Explosives*.

3.4.16. Code of Federal Regulations (CFR), Title 49—Transportation, Subtitle B—Other Regulations Relating to Transportation (Continued), Chapters I and III—Federal Motor Carrier Safety Administration (FMCSA), Department of Transportation (DOT), Parts 100-185 and Parts 300-399; on-line at <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html>.

3.4.17. 2016 *Emergency Response Guidebook (ERG)*, U.S. DOT, Transport Canada, Transportation Secretariat of Mexico.

3.4.18. United States Department of Transportation, Federal Motor Carrier Safety Administration; on-line at <http://www.fmcsa.dot.gov/>.

3.4.19. American Association of Motor Vehicle Administrators; on-line at <http://www.aamva.org/>.

3.5. Instructional Training Aids and Equipment.

3.5.1. Explosives/Hazardous Materials Transport QTP.

3.5.2. AAMVA *CDL Manual*.

- 3.5.3. AFMAN 90-201, Chapter 8.
- 3.5.4. Command and local directives.
- 3.5.5. Examples of shipping paper, package marking/labels, placards.
- 3.5.6. Explosives/hazardous material routes, as applicable.
- 3.5.7. Suitable training area.

Section 4—TRAINEE PREPARATION

4.1. Licensing Requirements.

- 4.1.1. The Hazardous Material certification will also be annotated on the trainee's on-the-job (OJT) records.
- 4.1.2. Military personnel (Active Duty, Reservists, National Guardsmen, including full-time technicians in technician status) will ensure certification has been annotated in appropriate OJT records. Installations may also require use of AF IMT 483, *Certificate of Competency*.
- 4.1.3. Commercial drivers, DoD civilian employees, DoD contractors, U.S. Reservists and National Guardsmen not in technician status will have a valid Commercial Driver's License CDL. Additionally, an Optional Form 346, *U.S. Government Motor Vehicle Operator's Identification Card*.
- 4.1.4. State Government employees (under a Cooperative Agreement) will have a valid CDL with the applicable vehicle class and endorsements (hazardous material endorsement) IAW Department of Transportation, Federal Motor Carrier Safety regulation.
- 4.1.5. Foreign national operators working for the U.S. Government OCONUS will, at a minimum, have a valid civilian driver's license from the host nation and a permit/agreement stating the joint employment policy and specifying limitations and restrictions for foreign national drivers. Additional requirements for the host nation and installation must also be met.

4.2. Training Requirements.

- 4.2.1. Initial training for explosives/hazardous material transport includes the educational and hands-on training, provided by this QTP, and the successful completion of required computer-based training identified below and the Performance Test found in **Attachment 4**.
- 4.2.2. Following initial training, refresher training will be accomplished, biennially. Refresher training includes member completion of the required CBT training and the Performance Test (**Attachment 4**).

4.2.3. Required initial and biennial refresher CBT training includes the following modules located at <http://dothazmat.vividlms.com/>, through the DOT - PHMSA:

4.2.3.1. 0.0 Hazardous Materials Regulations Introduction

4.2.3.2. 1.0 Hazardous Materials Table

4.2.3.3. 2.0 Shipping Papers

4.2.3.4. 4.0 Placarding

4.2.3.5. 6.0 Carrier Highway Requirements

4.2.4. Trainees must achieve an 80% or higher on each required CBT module.

4.2.4.1. Once required CBT modules are successfully completed, the trainee will provide the trainer with a copy of his/her training status report through the course website.

4.2.4.2. If the trainee does not receive an 80% or higher, he/she needs to retake a CBT module. To do so, he/she will need to reenroll in the applicable module in order to reattempt the module material and test.

Note: Local initial and recurring general explosives safety training requirements, identified in AFI 91-202, *The U.S. Air Force Mishap Prevention Program* (para 9.11.3.), for personnel who operate, handle, transport, maintain, load or dispose of missiles, explosives or nuclear weapons must still be accomplished, as applicable for the specific installation and unit operation requirements.

4.3. Required Reading (Testable Material).

4.3.1. Read the Explosives/Hazardous Materials Transport QTP.

4.3.2. Read Sections 2 and Section 9 of the AAMVA *CDL Manual*.

4.3.3. Read AFMAN 24-306, Chapters 1-5 and 7-12.

4.3.4. Read manufacturer's operator's manual and applicable TOs for the vehicle being trained on.

Section 5—KNOWLEDGE LECTURE

5.1. Overview of Knowledge Lecture.

5.1.1. Knowledge lecture objective:

5.1.2. Given lectures, computer-based training and demonstrations, trainees will be able to successfully accomplish training requirements identified in **Section 4**.

5.1.3. *AAMVA CDL Manual*. The *AAMVA CDL Manual* contains the bulk of the lecture knowledge material for training on transporting explosives/hazardous materials. It must be used in conjunction with this vehicle training package for training and lecture on explosives/hazardous material transport.

5.1.4. Air Force explosives safety standards are identified in AFMAN 91-201. Criteria for specific explosives are specified in technical publications and other standard publications, such as command and local directives.

5.1.5. Definition. For the purposes of this vehicle training package, the terms: “ammunition, explosives and munitions are synonymous. The term “hazardous material” includes all regulated hazardous material, including ammunition, explosives and munitions.

5.1.6. Overview of CDL standards.

5.1.6.1. Military members are not required to obtain a CDL IAW 49 CFR Part 383.3.:

“Each State must exempt from the requirements of this part individuals who operate commercial motor vehicles (CMVs) for military purposes. This exception is applicable to active duty military personnel; members of the military reserves; member of the national guard on active duty, including personnel on full-time national guard duty, personnel on part-time national guard training, and national guard military technicians (civilians who are required to wear military uniforms); and active duty U.S. Coast Guard personnel. This exception is not applicable to U.S. Reserve technicians.”

5.1.6.2. The Air Force is, however, required to develop and provide training meeting or exceeding national requirements for CMV operation IAW Department of Defense Manual (DoDM) 4500.36, *Acquisition, Management, and Use of DoD Non-Tactical Vehicles*, Appendix 1 to Enclosure 5, paragraph 4a:

“DoD Components will prescribe licensing requirements for its military and civilian drivers that meet or exceed the minimum national requirements issued by the Secretary of Transportation”

5.1.6.3. Federal Motor Carrier Safety Administration (FMCSA), under the Department of Transportation (DOT), serves as the administrator for CDL requirements.

5.1.6.3.1. AAMVA, on behalf of FMCSA, develops, provides and maintains the minimum national standards through its CDL Test System model, to include hazardous material transport, standards and resources IAW the Code of Federal Regulations (CFR) and the Commercial Motor Vehicle Safety Act of 1986.

5.1.6.3.2. Transportation of Explosives/Hazardous Materials endorsement requires additional knowledge and skill sets IAW AAMVA requirements. **Note:** For

information on the knowledge and skill set evaluations required for operators of AF GMVs, transporting hazardous material, see **Section 4**.

5.2. Safety and Equipment.

5.2.1. Hazards and human factors.

5.2.1.1. Explosives/hazardous materials are not properly identified.

5.2.1.2. Shipments are not safely loaded.

5.2.1.3. Vehicle is not properly placarded.

5.2.2. Safety clothing and equipment:

5.2.2.1. Safety steel-toed boots must be worn.

5.2.2.2. Gloves will be worn during cargo loading and unloading cargo (remove rings/jewelry first).

5.2.2.3. Goggles, if required.

5.2.2.4. Mask, if required.

5.2.2.5. First aid kit, if required.

5.2.2.6. Warning triangles, if required.

5.2.2.7. Inclement weather gear, if required.

5.2.2.8. AF Form 1800.

5.2.2.9. Proper shipping forms. See **Paragraph 5.4**.

5.3. Explosives/Hazardous Materials Transportation Roles and Responsibilities.

5.3.1. See **Attachment 1** for definitions.

5.3.2. Shipper (transportation officer) will:

5.3.2.1. Ensure proper packaging, blocking and bracing are accomplished.

5.3.2.2. Ensure accurate hazardous warning labels, marking, placards are used.

5.3.2.3. Certify shipping papers.

5.3.2.4. Ensure only commercial or government vehicles are used for transporting regulated HAZMAT and Hazardous Waste (HW) as defined by 40 CFR 261, *Identification and Listing of Hazardous Waste*, and 40 CFR 261.3, *Definition of Hazardous Waste*. Use of POVs for transporting HAZMAT and HW is prohibited.

5.3.2.5. Ensure, before releasing explosives/hazardous materials, the operator of the vehicle or material handling equipment (MHE) provides the items listed below and meets the requirements of DoD 4500.36, *Management, Acquisition and Use of Motor Vehicles*:

5.3.2.5.1. Employee identification card or similar photo identification that identifies operator and his/her company affiliation.

5.3.2.5.2. License requirements for vehicle or MHE being operated and a hazardous material certification.

5.3.2.5.3. Current DOT medical examiner's certificate IAW DTR Part II, chapter 208, paragraph B, if applicable. Active duty military members and full-time technicians in technician status are exempt.

5.3.2.5.4. Written route plan, as prescribed by 49 CFR 397.67(d), *Motor Carrier Responsibility for Routing*, for classes of explosives/hazardous materials. For radioactive material, ensure the driver has a route plan IAW 49 CFR 397.101, *Requirements for Motor Carriers and Drivers*.

5.3.2.6. The carrier (operator) will:

5.3.2.6.1. Ensure shipper has identified, marked and labeled explosives/hazardous materials properly.

5.3.2.6.2. Refuse leaking packages and shipments.

5.3.2.6.3. Placard vehicle when loading, if required.

5.3.2.6.4. Safely transport the shipment without delay.

5.3.2.6.5. Follow all special rules about transporting explosives/hazardous materials.

5.3.2.6.6. Keep hazardous material shipping papers and emergency response information in the proper place.

5.3.2.6.7. Report accidents involving explosives/hazardous material to the appropriate agencies.

5.3.2.7. Explosives movement routes. Explosive movement routes will be reviewed IAW AFI 91-202, biennially.

5.4. Military Shipping Forms for Explosives/Hazardous Materials.

5.4.1. No operator may transport explosives/hazardous materials unless it is accompanied by applicable shipping papers. **See Attachment 3.**

5.4.1.1. DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*. Leads the operator through an extensive inspection to ensure that the vehicle is safe to drive.

5.4.1.1.1. The shipping activity must prepare a DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*, before any vehicles are used for transportation of any placarded amounts of HAZMAT, and any placarded or non-placarded AA&E shipments moving under TPS. All spaces on the DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*, must be completed for Government Motor Vehicles (GMVs). Additional pages may be used if necessary. Shipments will not be tendered if any unsatisfactory items are noted and not corrected.

5.4.1.1.2. The receiving activity must complete the destination portion of the DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*, before a motor vehicle containing a shipment of regulated HAZMAT is accepted for delivery. However, if a vehicle arrives at a receiving point with deficiencies, that vehicle will not be returned to service on the highway and will be unloaded.

5.4.1.1.3. DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*, is divided into the following three sections:

5.4.1.1.3.1. Section I: Mechanical inspection.

5.4.1.1.3.1.1. Government Motor Vehicles (GMVs). DoD inspectors must perform a detailed mechanical inspection on all GMVs transporting regulated HAZMAT on public highways. Item 12g, fire extinguisher requirements, applies to both commercial and GMVs.

5.4.1.1.3.1.2. Commercial vehicles. If commercial vehicles have a current Commercial Vehicle Safety Alliance (CVSA) sticker, DoD inspectors may perform a cursory inspection verifying that, at a minimum, the following are operational: headlights, taillights, brake lights, and windshield wipers. DoD inspectors may verify that the fire extinguishers are charged, no fluids are leaking (visibly), and the tires are properly inflated and are not balding. If defects are noted during a cursory inspection, a detailed inspection will be performed on commercial vehicles using the DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*. The activity may perform a detailed inspection at its option even if a current CVSA sticker is present.

5.4.1.1.3.2. Section III: Post loading inspection. This section applies to commercial and GMVs.

5.4.1.1.4. Deficiencies that are discovered during inspection and are corrected before the loading or unloading of the vehicle will be entered in the “Remarks” column opposite the proper item. Only deficiency-free vehicles will be accepted for loading. The carrier must correct deficiencies before vehicles are permitted to enter sensitive or restricted areas.

5.4.1.1.5. The inspecting activity will retain a copy of the DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*, IAW Service/Agency directives. For all shipments, the original will be given to the vehicle driver at origin for delivery to the consignee. For a deficient commercial vehicle that has been rejected from loading or unloading or if the driver of the vehicle has been found unsatisfactory, one copy will be sent to each of the following:

5.4.1.1.5.1. The nearest DOT field office.

5.4.1.1.5.2. The carrier home office.

5.4.1.1.5.3. SDDC Safety, ATTN: AMSSD-SA, 1 Soldier Way, Building 1900 West, Scott AFB, IL 62225-5006.

5.4.1.2. DD Form 2781. *Container Packing Certificate or Vehicle Packaging Declaration*. Required for each cargo transport unit or vehicle containing hazardous material, if hazardous material is packed within.

5.4.1.2.1. The shipper or person who stuffs the container and has been designated by the CDR to certify HAZMAT cargo will sign the DD Form 2890, *DOD Multimodal Dangerous Goods Form*, and the DD Form 2781, *Container Packing Certificate or Vehicle Packaging Declaration*.

5.4.1.2.2. DD Form 2781, *Container Packing Certificate or Vehicle Packaging Declaration*, is required for all movements of containers/vehicles.

5.4.1.3. DD Form 2890, *DoD Multimodal Dangerous Goods Form*. Used to regulate hazardous material shipped in a military or non-commercial vehicle by highway movements.

5.4.1.3.1. When shipping papers are required by 49 CFR, a DD Form 2890, *DOD Multimodal Dangerous Goods Form*, must be used to provide emergency response information for all government vehicles transporting regulated HAZMAT. If more than one emergency response number is required, each number must be annotated on the DD Form 2890, *DOD Multimodal Dangerous Goods Form*, in bold highlighted letters or circled. Emergency response instructions will provide information to enable the driver to protect self, lading, vehicle, and any other life or property in the vicinity from hazards associated with accidents or incidents. Additional information as

required by 49 CFR, this regulation, and DoD Component/Service/Agency HQ will be annotated.

5.4.1.3.2. DD Form 2890, *DOD Multimodal Dangerous Goods Form*, will serve as both a shipping paper on public highway and military and commercial vessel as regulated HAZMAT documentation from origin to final destination. The HN/Command regulations will apply once a DoD shipment arrives at the OCONUS POD.

5.4.1.3.3. The origin government or military driver will be instructed to keep DD Form 2890, *DOD Multimodal Dangerous Goods Form*, in the vehicle while transporting regulated HAZMAT and to transfer it to each successive driver for delivery to the consignee.

5.4.1.3.4. When the Security Escort Vehicle Service is used, personnel performing the service will be provided with a duplicate copy of the DD Form 2890, *DOD Multimodal Dangerous Goods Form*.

5.4.1.3.5. When government contractors/vendors load government vehicles with HAZMAT shipments for movement on a public highway, the contractor will complete/certify Blocks 21b, c, d on the DD Form 2890, *DOD Multimodal Dangerous Goods Form*. The government vehicle operator will complete Block 20d. When a contractor employee operates the government vehicle on behalf of the government, the contractor employee vehicle operator will sign Block 20d. The contractor is the shipper in this case and has the technical knowledge of the HAZMAT contents of the shipment to certify Blocks 21b, c, and d of the DD Form 2890, *DOD Multimodal Dangerous Goods Form*. In addition, a DD Form 626 and DD Form 1907, *Signature and Tally Record*, may be required. When a contractor employee operates the government vehicle, the contractor employee must meet Federal Motor Carrier requirements, to include possessing a CDL with a vehicle/HAZMAT endorsement, medical certificate, alcohol/drug testing profile, and security plan as is required for commercial vehicle operators.

5.4.1.4. Decision table for use of explosives/hazardous materials military shipping forms.

Table 5.1. Decision Table for Use of Hazardous Material-Related Forms.

Required Document by Mode of Shipment				
Mode of Shipment	DD Form 2890	Shipper's Declaration for Dangerous Goods	DD Form 626	DD Form 2781
Air Military		X ¹		X
Air Commercial		X ¹		X
Vessel Military	X			X ²
Vessel Commercial	X			X ²
Highway Unit Move	X		X ^{1,3}	X
Highway Commercial	X ⁶		X ^{1,3}	X
Rail Unit Move	X		X ^{1,3}	X
Rail Commercial	X		X ^{1,3}	X

Note:

1. Transporting HAZMAT via highway to a commercial or military aerial port requires the Shipper's Declaration for Dangerous Goods. This red border form will be used for the air/motor portion IAW AFMAN 24-204_IP or IATA Dangerous Goods Regulations, ICAO Technical Instructions, or 49 CFR 175.
2. DD Form 2781, Container Packing Certificate or Vehicle Packing Declaration, is required for all movements of containers/vehicles.
3. DD Form 626, Motor Vehicle Inspection (Transporting Hazardous Materials), is required for all vehicles marked or placarded IAW Title 49 CFR.
4. If a shipment is moving on an intermodal basis (e.g., highway to an aerial port), the Shipper's Declaration for Dangerous Goods will be used for HAZMAT transport by aircraft and by motor vehicle either before or after being transported by aircraft IAW AFMAN 24-204_IP or IATA Dangerous Goods Regulations, ICAO Technical Instructions, or 49 CFR 175). However, if a shipment is moving on an intermodal basis (e.g., highway to water port), DD Form 2890 and its continuation Form 2890-C will be used for military and commercial vessel movements during the land/rail portion to final destination.
5. Shipper's Declaration for Dangerous Goods is required for placarded quantities.
6. A CBL/B/L may be used for domestic commercial highway movements completed IAW with HAZMAT declaration shipping paper data requirements.

5.4.1.5. The GMV operator will keep shipping papers for explosives/hazardous cargo:

5.4.1.5.1. In a pouch on the driver's door;

5.4.1.5.2. In clear view within reach, while driving;

5.4.1.5.3. On the driver's seat when out of the vehicle.

5.5. Safety for Transporting Explosives/Hazardous Materials.

5.5.1. Observe the following safety measures when handling and transporting explosives/hazardous materials:

5.5.1.1. Follow regulatory guidance and local standard operating procedures for safety requirements when loading, unloading and handling explosives/hazardous material. Ensure each individual is properly trained and familiar with safety requirements.

Note: Ensure that applicable international regulations, requirements and restrictions are reviewed and adhered to for overseas bases, if operating off-base.

5.5.1.2. Designate specific, segregated areas for container loading and unloading activities and in-transit storage purposes.

5.5.1.2.1. Mark explosives/hazardous materials operating and storage areas with appropriate warning signs.

5.5.1.2.2. Initiate security measures, when necessary, to prevent theft, sabotage and unauthorized access.

5.5.1.2.3. Prohibit smoking, except in an established smoking area and provide means for safe disposal of smoking materials.

5.5.1.2.4. Prohibit matches, lighters or other sparking or open flame-producing items in the vicinity of explosives/hazardous materials.

5.5.1.2.5. Establish and follow firefighting and emergency plans. Ensure fire extinguisher requirements are met IAW Federal and State laws.

5.5.1.2.5.1. Two fully-charged, dry chemical fire extinguishers must be carried on a placarded vehicle. One should be mounted on the outside of the cab, on the driver's side. One should be mounted on the inside of the cab.

5.5.1.2.6. Avoid jars or shocks to the load when driving.

5.5.1.2.7. Keep personnel clear of loads being lifted by terminal or marshaling yard equipment.

5.5.1.2.8. Keep roadways and marshaling yard aisles in good repair.

5.6. Rules for Transporting Explosives/Hazardous Materials.

5.6.1. General rules.

5.6.1.1. Before loading/unloading explosives/hazardous materials, set the parking brake and, if required, use chocks, to ensure the vehicle will not move.

5.6.1.2. Look for signs of leaking or damaged containers. **CAUTION** – Do NOT transport leaking packages.

5.6.1.3. Secure material against movement IAW guidance in **Paragraph 3.4.**

5.6.2. Parking.

5.6.2.1. Parking a placarded vehicle with Division 1.1, 1.2 or 1.3 (Class A or B) Explosives.

- 5.6.2.1.1. Never park within five feet of the traveled part of the road; except for short periods of time needed for vehicle operation necessities (e.g., fueling, repairs, etc.).
- 5.6.2.1.2. Do not park within 300 feet of: a bridge, tunnel or building; a place where people gather; an open fire.
- 5.6.2.1.3. If you must park to perform your job, do so briefly.
- 5.6.2.1.4. Do not park on private property unless the owner is aware of the danger and has agreed to allow you to park on the private property.
- 5.6.2.1.5. Someone must always watch the parked vehicle. Someone, other than the operator, may watch the vehicle if the vehicle is: on the shipper's property, on the carrier's property, on the consignee's property.
- 5.6.2.1.6. You are allowed to leave your vehicle unattended in a safe haven. A safe haven is an approved place for parking unattended vehicles loaded with Class A or B explosives.
 - 5.6.2.1.6.1. Designation of authorized safe havens may be done by local, state or federal authorities.
 - 5.6.2.1.6.2. You must know the location of safe havens along your route.
- 5.6.2.2. Parking a placarded vehicle without Division 1.1, 1.2 or 1.3 (Class A or B) Explosives.
 - 5.6.2.2.1. You may park a placarded vehicle, not laden with explosives, within five feet of the traveled part of the road, only if your work requires it.
 - 5.6.2.2.2. If you must park to perform your job, do so briefly.
 - 5.6.2.2.3. Someone must always watch the parked vehicle when parked on a public roadway or shoulder.
 - 5.6.2.2.4. Do not uncouple a trailer with explosives/hazardous material and leave it on a public street.
 - 5.6.2.2.5. Do not park within 300 feet of an open fire.
- 5.6.3. Detecting fuel leakage. See AFMAN 24-306, Chapter 11 for information regarding detecting fuel leakage occurring on a public highway and off-the-road.

Section 6—DEMONSTRATION & EVALUATION

6.1. Instructor's Preparation.

- 6.1.1. Establish a training location.
- 6.1.2. Obtain appropriate vehicle operator's manual.
- 6.1.3. Schedule/reserve a vehicle.
- 6.1.4. Ensure trainee completes AF Form 171.

6.2. Demonstration.

- 6.2.1. Throughout demonstration:
 - 6.2.1.1. Allow for questions.
 - 6.2.1.2. Repeat demonstrations as needed.
- 6.2.2. During the demonstration, the trainer should review the following:
 - 6.2.2.1. Safety and personal protective equipment.
 - 6.2.2.2. Emergency/incident response procedures and points-of-contact.
 - 6.2.2.3. Shipping paper verification.
 - 6.2.2.4. Explosives/hazardous cargo tie-down.
 - 6.2.2.5. Vehicle placarding verification.
 - 6.2.2.6. Parking requirements and restrictions.

6.3. Performance Test.

- 6.3.1. Trainee will complete the performance test found in **Attachment 4**.
 - 6.3.1.1. Certifier and trainee will review **Attachment 4**.
 - 6.3.1.2. Certifier will answer trainee's questions.
- 6.3.2. Certifier will:
 - 6.3.2.1. Ensure safety at all times.

- 6.3.2.1.1. Place wheel chocks (if required) when vehicle being used is parked.
- 6.3.2.1.2. Remove all jewelry and identification tags.
- 6.3.2.2. Trainee is not allowed any Certifier assists to pass performance test.
- 6.3.2.3. Retrain No-Go items until trainee is able to demonstrate proficiency in understanding and following explosives/hazardous material transport procedures.
- 6.3.2.4. Re-evaluate once proficient.

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFJMAN 23-209, *Storage and Handling of Hazardous Materials*, 13 January 1999

AFI 24-301, *Ground Transportation*, 1 November 2018

AFI 36-2605, *Air Force Military Personnel Testing System*, 24 September 2008

AFI 91-202, *The US Air Force Mishap Prevention Program*, 24 June 2015

AFI 91-203, *Air Force Consolidated Occupational Safety Standard*, 15 June 2012

AFMAN 24-306, *Operation of Air Force Government Motor Vehicles*, 9 December 2016

AFMAN 91-201, *Explosives Safety Standard*, 21 January 2011

DTR 4500.9R, Part II, *Cargo Movement*, 1 May 2014

DOD 5100.76-M, *Physical Security of Sensitive Conventional Arms, Ammunition and Explosives (AA&E)*, 17 April 2012

Adopted Forms

AF Form 171, *Request for Driver's Training and Addition to U.S. Government Drivers*, 1 November 2018

AF Form 847, *Recommendation for Change of Publication*, 22 September 2009

AF Form 1800, *Operator's Inspection Guide and Trouble Report*, 1 April 2010

AF Form 2293, *U.S. Air Force Motor Vehicle Operator Identification Card*, 1 February 1987

DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*, 1 October 2011

DD Form 2890, *DoD Multimodal Dangerous Good Form*, 1 September 2015

OF Form 346, *U.S. Government Motor Vehicle Operator's Identification Card*, 1 November 1985

Abbreviations and Acronyms

AAMVA—American Association of Motor Vehicle Administrators

AFI—Air Force Instruction

AFIMSC—Air Force Installation and Mission Support Center

AFMAN—Air Force Manual

AFQTP—Air Force Qualification Training Package

CBT—Computer-Based Training

CDL—Commercial Driver's License

CFR—Code of Federal Regulations

CVSA—Commercial Vehicle Safety Alliance

DoD—Department of Defense

DOT—Department of Transportation
DTR—Defense Transportation Regulation
ERG—Emergency Response Guide
FMCSA—Federal Motor Carrier Safety Administration
HAZMAT—Hazardous Materials
IAW—In Accordance With
MHE—Material Handling Equipment
OJT—On-the-Job-Training
RM—Risk Management
TMO—Traffic Management Office
TO—Technical Order
USAF—United States Air Force

Terms

Carrier—Any individual, company, or corporation commercially engaged in transporting cargo or passengers between two points. DoD-approved carriers, as defined above, are approved by the Commander, Military Surface Deployment and Distribution Command or the headquarters, Air Mobility Command.

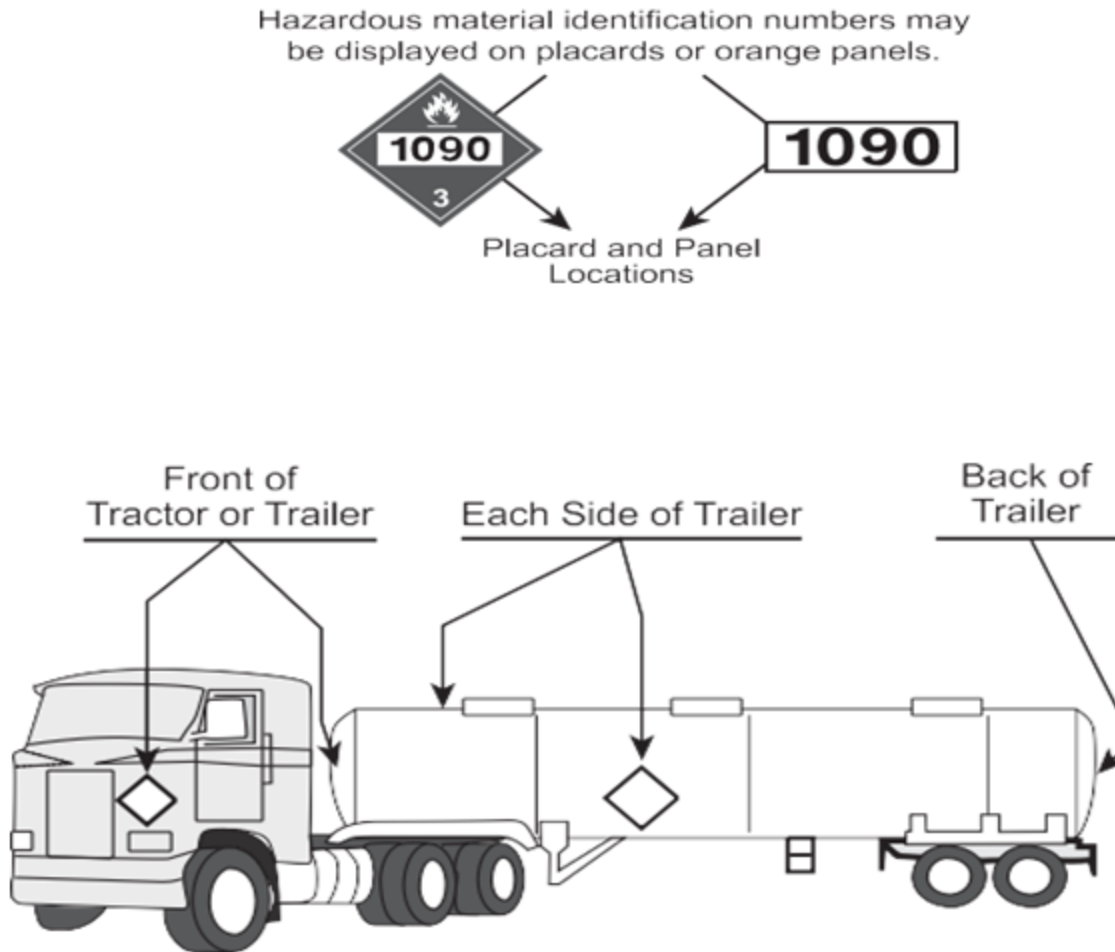
Shipper—A Service or agency activity (including the contract administration or purchasing office for vendors) or vendor that originates shipments. The functions performed include planning, assembling, consolidating, documenting, and arranging material movement.

Transportation Officer—Person(s) designated or appointed to perform traffic management functions. The official at an activity that is designated or appointed as Installation Transportation Officer, Traffic Manager, Traffic Management Officer, Passenger Transportation Officer, Personal Property Transportation Officer, Unit Movement Coordinator, or Department of State General Service Officers.

Attachment 2

PLACARDING GUIDANCE

Figure A2.1. Hazardous Material Transport Placarding Sample.



Attachment 3

MILITARY SHIPPING FORMS

Figure A3.1. DD Form 626, *Motor Vehicle Inspection (Transporting Hazardous Materials)*.

MOTOR VEHICLE INSPECTION (TRANSPORTING HAZARDOUS MATERIALS)										
<i>(Read Instructions before completing this form.)</i>										
This form applies to all vehicles which must be marked or placarded in accordance with Title 49 CFR.					1. BILL OF LADING/TRANSPORTATION CONTROL NUMBER					
SECTION I - DOCUMENTATION			ORIGIN a.			DESTINATION b.				
2. CARRIER/GOVERNMENT ORGANIZATION										
3. DATE/TIME OF INSPECTION										
4. LOCATION OF INSPECTION										
5. OPERATOR(S) NAME(S)										
6. OPERATOR(S) LICENSE NUMBER(S)										
7. MEDICAL EXAMINER'S CERTIFICATE*										
8. (X if satisfactory at origin)						8. CVSA DECAL DISPLAYED ON COMMERCIAL EQUIPMENT*				
a. HAZMAT ENDORSEMENT		d. ERG OR EQUIVALENT COMMERCIAL:		YES		NO				
b. VALID LEASE*		e. DRIVER'S VEHICLE INSPECTION REPORT*		a. TRUCK/TRACTOR		YES		NO		
c. ROUTE PLAN		f. COPY OF 49 CFR PART 397		b. TRAILER						
SECTION II - MECHANICAL INSPECTION										
<i>All items shall be checked on empty equipment prior to loading. Items with an asterisk shall be checked on all incoming loaded equipment.</i>										
10. TYPE OF VEHICLE(S)					11. VEHICLE NUMBER(S)					
12. PART INSPECTED (X as applicable)		ORIGIN (1)		DESTINATION (2)		ORIGIN (1)		DESTINATION (2)		COMMENTS (3)
		SAT		UNSAT		SAT		UNSAT		
a. SPARE ELECTRICAL FUSES						k. EXHAUST SYSTEM				
b. HORN OPERATIVE						l. BRAKE SYSTEM*				
c. STEERING SYSTEM						m. SUSPENSION				
d. WINDSHIELDWIPERS						n. COUPLING DEVICES				
e. MIRRORS						o. CARGO SPACE				
f. WARNING EQUIPMENT						p. LANDING GEAR*				
g. FIRE EXTINGUISHER*						q. TIRES, WHEELS, RIMS				
h. ELECTRICAL WIRING						r. TAILGATE/DOORS*				
i. LIGHTS AND REFLECTORS						s. TARPULIN*				
j. FUEL SYSTEM*						t. OTHER (Specify)				
13. INSPECTION RESULTS (X one) ACCEPTED					REJECTED					
<i>(If rejected give reason under "Remarks". Equipment will be approved if deficiencies are corrected prior to loading.)</i>										
14. SATELLITE MOTOR SURVEILLANCE SYSTEM: (X one) ACCEPTED					REJECTED					
15. REMARKS										
16. INSPECTOR SIGNATURE (Origin)					17. INSPECTOR SIGNATURE (Destination)					
SECTION III - POST LOADING INSPECTION										
<i>This section applies to Commercial and Government/Military vehicles. All items will be checked prior to release of loaded equipment and shall be checked on all incoming loaded equipment.</i>						ORIGIN (1)		DESTINATION (2)		COMMENTS (3)
						SAT		UNSAT		
18. LOADED IAW APPLICABLE SEGREGATION/COMPATIBILITY TABLE OF 49 CFR										
19. LOAD PROPERLY SECURED TO PREVENT MOVEMENT										
20. SEALS APPLIED TO CLOSED VEHICLE; TARPULIN APPLIED ON OPEN EQUIPMENT										
21. PROPER PLACARDS APPLIED										
22. SHIPPING PAPER/ DD FORM 2880 FOR GOVERNMENT VEHICLE SHIPMENTS										
23. COPY OF DD FORM 826 FOR DRIVER										
24. SHIPPED UNDER DOT SPECIAL PERMIT 888										
25. INSPECTOR SIGNATURE (Origin)					26. DRIVER(S) SIGNATURE (Origin)					
27. INSPECTOR SIGNATURE (Destination)					28. DRIVER(S) SIGNATURE (Destination)					

INSTRUCTIONS

SECTION I - DOCUMENTATION

General Instructions.

All items (2 through 9) will be checked at origin prior to loading. Items with an asterisk (*) apply to commercial operators or equipment only. Only items 2 through 7 are required to be checked at destination.

Items 1 through 5. Self explanatory.

Item 6. Enter operator's Commercial Driver's License (CDL) number or Military OF-346 License Number. CDL and OF-346 must have the HAZMAT and other appropriate endorsements IAW 49 CFR 393.

Item 7. *Enter the expiration date listed on the Medical Examiner's Certificate.

Item 8.a. Hazardous Materials Certification. In accordance with applicable service regulations, ensure operator has been certified to transport hazardous materials. Check the expiration date on driver's HAZMAT Certification.

b. *Valid Lease. Shipper will ensure a copy of the appropriate contract or lease is carried in all leased vehicles and is available for inspection. (49 CFR 376.12 and 376.11(c)(2)).

c. Route Plan. Prior to loading any Hazard Class/Division 1.1, 1.2, or 1.3 (Explosives) for shipment, ensure that the operator possesses a written route plan in accordance with 49 CFR Part 397. Route Plan requirements for Hazard Class 7 (Radioactive) materials are found in 49 CFR 397.101.

d. Emergency Response Guidebook (ERG) or Equivalent. Commercial operators must be in possession of an ERG or equivalent document. Shipper will provide applicable ERG page(s) to military operators.

e. *Driver's Vehicle Inspection Report. Review the operator's Vehicle Inspection Report. Ensure that there are no defects listed on the report that would affect the safe operation of the vehicle.

f. Copy of 49 CFR Part 397. Operators are required by regulation to have in their possession a copy of 49 CFR Part 397 (Transportation of Hazardous Materials Driving and Parking Rules). If military operators do not possess this document, shipper will provide a copy to operator.

Item 9. *Commercial Vehicle Safety Alliance (CVSA) Decal. Check to see if equipment has a current CVSA decal and mark applicable box. Vehicles without CVSA, check documentation of the last vehicle periodic inspection and perform DD Form 626 inspection.

SECTION II - MECHANICAL INSPECTION

General Instructions.

All items (12.a. through 12.L) will be checked on all incoming empty equipment prior to loading. All UNSATISFACTORY conditions must be corrected prior to loading. Items with an asterisk (*) shall be checked on all incoming loaded equipment. Unsatisfactory conditions that would affect the safe off-loading of the equipment must be corrected prior to unloading.

SECTION II (Continued)

Item 12.a. Spare Electrical Fuses. Check to ensure that at least one spare fuse for each type of installed fuse is carried on the vehicle as a spare or vehicle is equipped with an overload protection device (circuit breaker). (49 CFR 393.95)

b. Horn Operative. Ensure that horn is securely mounted and of sufficient volume to serve purpose. (49 CFR 393.81)

c. Steering System. The steering wheel shall be secure and must not have any spokes cracked through or missing. The steering column must be securely fastened. Universal joints shall not be worn, faulty or repaired by welding. The steering gear box shall not have loose or missing mounting bolts or cracks in the gear box mounting brackets. The pitman arm on the steering gear output shaft shall not be loose. Steering wheel shall turn freely through the limit of travel in both directions. All components of a power steering system must be in operating condition. No parts shall be loose or broken. Belts shall not be frayed, cracked or slipping. The power steering system shall not be leaking. (49 CFR 396 Appendix G)

d. Windshield/Wipers. Inspect to ensure that windshield is free from breaks, cracks or defects that would make operation of the vehicle unsafe; that the view of the driver is not obscured and that the windshield wipers are operational and wiper blades are in serviceable condition. Defroster must be operative when conditions require. (49 CFR 393.60, 393.78 and 393.79)

e. Mirrors. Every vehicle must be equipped with two rear vision mirrors located so as to reflect to the driver a view of the highway to the rear along both sides of the vehicle. Mirrors shall not be cracked or dirty. (49 CFR 393.80)

f. Warning Equipment. Equipment must include three bidirectional emergency reflective triangles that conform to the requirements of FMVSS No. 125. FLAME PRODUCING DEVICES ARE PROHIBITED. (49 CFR 393.95)

g. Fire Extinguisher. Military vehicles must be equipped with one serviceable fire extinguisher with an Underwriters Laboratories rating of 10 BC or more. (Commercial motor vehicles must be equipped with one serviceable 10 BC Fire Extinguisher). Fire extinguisher must be located so that it is readily accessible for use and securely mounted on the vehicle. The fire extinguisher must be designed, constructed and maintained to permit visual determination of whether it is fully charged. (49 CFR 393.95)

h. Electrical Wiring: Electrical wiring must be clean and properly secured. Insulation must not be frayed, cracked or otherwise in poor condition. There shall be no uninsulated wires, improper splices or connections. Wires and electrical fixtures inside the cargo area must be protected from the lading. (49 CFR 393.28)

INSTRUCTIONS

SECTION II (Continued)

i. Lights/Reflectors. (Head, tail, turn signal, brake, clearance, marker and identification lights, Emergency Flashers). Inspect to see that all lighting devices and reflectors required are operable, of proper color and properly mounted. Ensure that lights and reflectors are not obscured by dirt or grease or have broken lenses. High/Low beam switch must be operative. Emergency Flashers must be operative on both the front and rear of vehicle. (49 CFR 393.24, 25, and 26)

j. Fuel System. Inspect fuel tank and lines to ensure that they are in serviceable condition, free from leaks, or evidence of leakage and securely mounted. Ensure that fuel tank filler cap is not missing. Examine cap for defective gasket or plugged vent. Inspect filler necks to see that they are in completely serviceable condition and not leaking at joints. (49 CFR 393.83)

k. Exhaust System. Exhaust system shall discharge to the atmosphere at a location to the rear of the cab or if the exhaust projects above the cab, at a location near the rear of the cab. Exhaust system shall not be leaking at a point forward of or directly below the driver compartment. No part of the exhaust system shall be located where it will burn, char or damage electrical wiring, fuel system or any other part of the vehicle. No part of the exhaust system shall be temporarily repaired with wrap or patches. (49 CFR 393.83)

l. Brake System (to include hand brakes, parking brakes and Low Air Warning devices). Check to ensure that brakes are operational and properly adjusted. Check for audible air leaks around air brake components and air lines. Check for fluid leaks, cracked or damaged lines in hydraulic brake systems. Ensure that parking brake is operational and properly adjusted. Low Air Warning devices must be operative. (49 CFR 393.40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, and 55)

m. Suspension. Inspect for indications of misaligned, shifted or cracked springs, loosened shackles, missing bolts, spring hangers unsecured at frame and cracked or loose U-bolts. Inspect for any unsecured axle positioning parts, and sign of axle misalignment, broken torsion bar springs (if so equipped). (49 CFR 393.207)

n. Coupling Devices (Inspect without uncoupling). Fifth Wheels: Inspect for unsecured mounting to frame or any missing or damaged parts. Inspect for any visible space between upper and lower fifth wheel plates. Ensure that the locking jaws are around the shank and not the head of the kingpin. Ensure that the release lever is seated properly and safety latch is engaged. Pintle Hook, Drawbar, Towbar Eye and Tongue and Safety Devices: Inspect for unsecured mounting, cracks, missing or ineffective fasteners (welded repairs to pintle hook is prohibited). Ensure safety devices (chains, hooks, cables) are in serviceable condition and properly attached. (49 CFR 393.70 and 71)

o. Cargo Space. Inspect to ensure that cargo space is clean and free from exposed bolts, nuts, screws, nails or inwardly projecting parts that could damage the lading. Check floor to ensure it is tight and free from holes. Floor shall not be permeated with oil or other substances. (49 CFR 393.84)

p. Landing Gear. Inspect to ensure that landing gear and assembly are in serviceable condition, correctly assembled, adequately lubricated and properly mounted.

SECTION II (Continued)

q. Tires, Wheels and Rims: Inspect to ensure that tires are properly inflated. Flat or leaking tires are unacceptable. Inspect tires for cuts, bruises, breaks and blisters. Tires with cuts that extend into the cord body are unacceptable. Thread depth shall not be less than: 4/32 inches for tires on a steering axle of a power unit, and 2/32 inches for all other tires. Mixing bias and radial on the steering axle is prohibited. Inspect wheels and rims for cracks, unseated locking rings, broken, loose, damaged or missing lug nuts or elongated stud holes. (49 CFR 393.75)

r. Tailgate/Doors. Inspect to see that all hinges are tight in body. Check for broken latches and safety chains. Doors must close securely. (49 CFR 177.835(h))

s. Tarpaulin. If shipment is made on open equipment, ensure that lading is properly covered with fire and water resistant tarpaulin. (49 CFR 177.835(h))

t. Other Unsatisfactory Condition. Note any other condition which would prohibit the vehicle from being loaded with hazardous materials.

Item 14. For AA&E and other shipments requiring satellite surveillance, ensure that the Satellite Motor Surveillance System is operable. The DTTG Message Display Unit, when operative, will display the signal "DTTG ON". The munitions carrier driver, when practical, will position the DTTG message display unit in a manner that allows the shipping inspector or other designated shipping personnel to observe the "DTTG ON" message without climbing aboard the cab of the motor vehicle.

SECTION III - POST LOADING INSPECTION

General Instructions.

All placarded quantities items will be checked prior to the release of loaded equipment. Shipment will not be released until deficiencies are corrected. All items will be checked on incoming loaded equipment. Deficiencies will be reported in accordance with applicable service regulations.

Item 18. Check to ensure shipment is loaded in accordance with 49 CFR Part 177.848 and the applicable Segregation or Compatibility Table of 49 CFR 177.848.

Item 19. Check to ensure the load is secured from movement in accordance with applicable service outload drawings.

Item 20. Check to ensure seal(s) have been applied to closed equipment; fire and water resistant tarpaulin applied on open equipment.

Item 21. Check to ensure each transport vehicle has been properly placarded in accordance with 49 CFR 172.504.

Item 22. Check to ensure operator has been provided shipping papers that comply with 49 CFR 172.201 and 202. For shipments transported by Government vehicle, shipping paper will be DD Form 2890.

Item 23. Ensure operator(s) sign DD Form 626, are given a copy and understand the hazards associated with the shipment.

Item 24. Applies to Commercial Shipments Only. If shipment is made under DOT Special Permit 868, ensure that shipping papers are properly annotated and copy of Special Permit 868 is with shipping papers.

Item 26. Ensure driver/operator signs DD Form 626 at origin.

Item 28. Ensure driver/operator signs DD Form 626 at destination.

Figure A3.2. DD Form 2781, Container Packing Certificate or Vehicle Packing Declaration.

CONTAINER PACKING CERTIFICATE OR VEHICLE PACKING DECLARATION			
Person responsible for packing the cargo transport unit (vehicle/container) will complete the checklist. Cross out "vehicle" or "container", as applicable. After completion, sign the certificate.			
1. It is declared that the undersigned has visually inspected (Container/Vehicle) Number: _____ (cross out whichever item does NOT apply) and it has been loaded/packed in accordance with the provisions of 5.4.2.1 (IMDGC) and CFR 49 and that (indicate "N/A" for all items that do NOT apply):			
	a. The cargo transport unit (container/vehicle) was clean, dry, and apparently fit to receive the goods.		
	b. If the consignment includes goods of class 1, other than 1.4, the cargo transport unit (container/vehicle) is structurally serviceable in conformity with 7.4.6 (IMDGC).		
	c. Goods that should be segregated, have not been packed together onto or in the cargo transport unit (container/ vehicle) (unless approved by the competent authority concerned in accordance with 7.2.2.3 (IMDGC)).		
	d. All packages have been externally inspected for damage, leakage, or sifting, and only sound packages have been packed.		
	e. Drums have been stowed in an upright position, unless otherwise authorized by the competent authority.		
	f. All packages have been properly packed onto or in the cargo transport unit (container/vehicle) and secured.		
	g. When dangerous goods are transported in bulk packagings, the cargo has been evenly distributed.		
	h. The cargo transport unit (container/vehicle) and packagings therein are properly marked, labeled, and placarded.		
	i. When solid carbon dioxide (CO ² - dry ice) is used for cooling purposes, the cargo transport unit (container/vehicle) is externally marked or labeled in a conspicuous place, such as the door, and with the words: "DANGEROUS CO ² - GAS (DRY ICE) INSIDE. VENTILATE THOROUGHLY BEFORE ENTERING".		
	j. The dangerous goods transport document required in 5.4.1 (IMDGC) has been received for each dangerous goods consignment packed in the cargo transport unit (container/vehicle).		
2. PERSON RESPONSIBLE FOR PACKING			
a. PRINTED NAME (Last, First, Middle Initial)	b. RANK/GRADE	c. TITLE	d. ORGANIZATION
e. PLACE PACKED	f. SIGNATURE		g. DATE (YYYYMMDD)

Figure A3.3. DD Form 2890, *DOD Multimodal Dangerous Goods Declaration*.

DOD MULTIMODAL DANGEROUS GOODS DECLARATION			
This form may be used as a dangerous goods declaration as it meets the requirements of SOLAS 74, Chapter VII, regulation 54; MARPOL 73/78, Annex III, Regulation 4.			
1. SHIPPER/CONSIGNOR/SENDER	2. TRANSPORT DOCUMENT NUMBER	3. PAGE 1 OF PAGE#	4. SHIPPER'S REFERENCE (TCN)
5. FREIGHT FORWARDER'S REFERENCE	6. CONSIGNEE	7. CARRIER (To be completed by the carrier)	
24-HOUR EMERGENCY ASSISTANCE TELEPHONE NUMBERS:			
DOD NON-EXPLOSIVE HAZMAT: (800) 851-8061/ (804) 279-3131 AT SEA: COLLECT: (804) 279-3131	DOD HAZ CLASS 1 (EXPLOSIVES) ONLY: COLLECT: (703) 695-4695/4696 or DSN: 225-4695/4696 (Watch Officer)	CHEMICAL/BIOLOGICAL WARFARE MATERIAL: (410) 436-6200 DSN: 584-6200	DOD SECURE HOLDING: (800) 626-0794 (For TSPs/drivers emergency secure holding issues, accidents, delays, and incidents) OIL/CHEMICAL SPILLS: NRC & TERRORIST HOTLINE: (800) 424-8802 AT SEA: COLLECT: (202) 267-2675
DOD RADIOACTIVE MATERIALS: COLLECT ARMY: (703) 695-4695/4696 USAF: (301) 981-5058 DLA: (800) 851-8061 AT SEA: COLLECT: (804) 279-3131 USN/MC: Use 24-hour emergency response number provided by activity.			
8. THIS SHIPMENT IS WITHIN THE LIMITATIONS PRESCRIBED FOR: (X as applicable)		9. CONTAINER PACKING CERTIFICATE OR VEHICLE PACKING DECLARATION, DD FORM 2781, IS ATTACHED (X if applicable)	
<input type="checkbox"/> MILITARY VESSEL <input type="checkbox"/> COMMERCIAL VESSEL <input type="checkbox"/> HIGHWAY/RAIL			
10. VOYAGE DOCUMENT NUMBER AND SAILING DATE (To be completed by the carrier)	11. PORT/PLACE OF LOADING		
12. PORT/PLACE OF DISCHARGE		13. DESTINATION	
14. SHIPPING MARKS	DESCRIPTION OF GOODS (UN No., PSN, HC, SHC, PG, number and kind of package, and additional information as required by regulations)	NET MASS/QTY (kg)	GROSS MASS (kg)
16. CONTAINER IDENTIFICATION NO./VEHICLE REGISTRATION NO.	18. SEAL NUMBER(S)	17. CONTAINER/VEHICLE AND TYPE	18. TARE MASS (kg)
19. ADDITIONAL HANDLING INFORMATION			
20. RECEIVING ORGANIZATION RECEIPT Received the above number of packages/containers/trailers in apparent good order and condition, unless stated hereon:			
a. RECEIVING ORGANIZATION REMARKS			
b. HAULER'S NAME	c. VEHICLE REGISTRATION NO.	d. SIGNATURE AND DATE	e. DRIVER'S SIGNATURE
21. SHIPPER PREPARING THIS FORM			
SHIPPER'S DECLARATION. I hereby declare that the contents of this consignment are fully and accurately described above by the Proper Shipping Name, and are classified, packaged, marked, and labeled/placarded and are in all respects in proper condition for transport according to applicable International and national government regulations.			
a. NAME OF COMPANY/MILITARY UNIT		b. NAME/STATUS OF DECLARANT/CERTIFIER	
c. PLACE AND DATE		d. SIGNATURE OF DECLARANT/CERTIFIER	

**INSTRUCTIONS FOR COMPLETING DD FORM 2890,
DOD MULTIMODAL DANGEROUS GOODS DECLARATION**

Item 1. Shipper/Consignor/Sender. Enter the address and telephone number where the HAZMAT was certified.

Item 2. Transport Document Number (Ocean container shipments only). The vessel manifest number to which the Multimodal Dangerous Goods Declaration will be attached may be entered in this block. The shipper need not enter this number. The accepting operator may enter it at the time it is assigned. Leave blank for breakbulk shipments. Shipper enters container "V" number.

Item 3. Page ___ of ___ Pages. Enter the page number and total number of pages. Example: Page 1 of 1.

Item 4. Shipper's Content Reference Number (TCN). Enter the 17-character TCN.

Item 5. Freight Forwarder's Reference. Leave blank.

Item 6. Consignee. Enter the six-digit DODAAC and/or the in-the-clear geographical location of the ultimate consignee (if known). For shipments of infectious substances, enter also the full address, name and telephone number of a responsible person for contact in an emergency.

Item 7. Carrier. Enter Vessel Carrier Name. To be completed by the carrier.
24 Hour Assistance Telephone Number(s). Circle applicable emergency number(s).

Item 8. Shipment Within the Limitations Prescribed for Military Vessel/Commercial Vessel/Highway/Rail. Mark X in the appropriate block.

Item 9. Container Certification/Vehicle Declaration. Declarant must mark X if applicable. U.S. Coast Guard or port officials may require verification of the container certification/vehicle declaration. DD Form 2781 is a detailed checklist which meets USCG/Customs requirements. DD Form 2781 must be signed and attached to DD Form 2890.

Item 10. Voyage Document Number and Sailing Date (To be completed by the carrier). Enter the voyage document number and the date of sail.

Item 11. Port/Place of Loading. Enter the three-digit POE code and/or the in-the-clear geographical location of the port of embarkation.

Item 12. Port/Place of Discharge. Enter the three-digit POD code and/or the in-the-clear geographical location of the port of debarkation.

Item 13. Destination (in the clear). Enter destination address.

Item 14. Shipping Marks.

1. The identification number prescribed for the material as shown in Column (4) of the Section 49 CFR 172.101 table;
2. The proper shipping name prescribed for the material in Column (2) of the Section 172.101 table;
3. The hazard class or division number prescribed for the material, as shown in Column (3) of the Section 172.101 table. The subsidiary hazard class or division number is not required to be entered when a corresponding subsidiary hazard label is not required. Except for combustible liquids, the subsidiary hazard class(es) or subsidiary division number(s) must be entered in parentheses immediately following the primary hazard class or division number. In addition: The words "Class" or "Division" may be included preceding the primary and subsidiary hazard class or division numbers. The hazard class need not be included for the entry "Combustible liquid, N.O.S." For domestic shipments, primary and subsidiary hazard class or division names may be entered following the numerical hazard class or division, or following the basic description.
4. The packing group in Roman numerals, as designated for the hazardous material in Column (5) of the Section 172.101 table. Class 1 (explosives) materials; self-reactive substances; batteries other than those containing lithium, lithium ions, or sodium; Division 5.2 materials; and entries that are not assigned a packing group (e.g., Class 7) are exempted from this requirement. The packing group may be preceded by the letters "PG" (for example, "PGII");
5. Enter additional information from the IMDG, chapter 5.4, as required (i.e. Marine Pollutant, Flashpoint, Toxin Inhalation Hazard, RQ, etc.).
6. Enter the number and kind of packaging.

Item 14. Shipping Marks (Continued).

7. Except for transportation by aircraft, the total quantity of hazardous materials covered by the description must be indicated (by mass or volume, or by activity for Class 7 materials) and must include an indication of the applicable unit of measurement, for example, "200 kg" (440 pounds) or "50L" (13 gallons). The following provisions also apply: For Class 1 materials, the quantity must be the net explosive mass. For an explosive that is an article, such as Cartridges, small arms, the net explosive mass may be expressed in terms of the net mass of either the article or the explosive materials contained in the article.

8. Ammunition transported by Government Vehicle, Unit will enter the total net quantity for non-explosive material in metric measure. U.S. measure may be added in parentheses underneath the metric measure. For ammunition, enter the total number of rounds/articles and NEW in kg. Exception: Net total quantity is not required for bulk packages, empty packages and cylinders of Class 2.

9. Radioactive material. The description for a shipment of a Class 7 (radioactive) material must include the following additional entries as appropriate:

- a. The name of each radionuclide in the Class 7 (radioactive) material that is listed in Section 173.435 of this subchapter. For mixtures of radionuclides, the radionuclides required to be shown must be determined in accordance with Section 173.433(g) of this subchapter. Abbreviations, e.g., "99 Mo," are authorized.
- b. A description of the physical and chemical form of the material, if the material is not in special form (generic chemical description) is acceptable for chemical form).
- c. The activity contained in each package of the shipment in terms of the appropriate SI units (e.g. Becquerels (Bq), Terabecquerels (TBq), etc.). The activity may also be stated in appropriate customary units (Curies (Ci), millicuries (mCi), microCuries (uCi), etc.) in parentheses following the SI units. Abbreviations are authorized. Except for plutonium-239 and plutonium-241, the weight in grams or kilograms of fissile radionuclides may be inserted instead of activity units. For plutonium-239 and plutonium-241, the weight in grams of fissile radionuclides may be inserted in addition to the activity units.

Item 15. Container ID Number/Vehicle Registration Number. Enter ID number of the container or vehicle registration number. A dash (-) or blank space is acceptable before the check digit.

Item 16. Seal Number(s). Enter seal number installed on container.

Item 17. Container/Vehicle and Type. Enter type and size of container (20 or 40 ft.) or vehicle description (e.g., HUMVEE).

Item 18. Tare Mass (kg). Enter tare weight of the container.

Item 19. Additional Handling Information.

If applicable, provide additional handling instructions. Enter the Emergency Response Guide (ERG) Number(s) of the HAZMAT and attach the specific ERG page to DD Form 2890. If applicable, drivers transporting regulated HAZMAT on European highways must be provided Transport Emergency Cards (TREMOCARDS) in the host nation language which must be attached to the shipping papers.

Item 20. Receiving Organization Receipt. Leave blank as this will be filed out by the receiving organization. Signing this block states that the shipment is in good order, unless otherwise noted.

Item 21. Shipper Preparing This Form.

- a. Name of Company/Military Unit. Enter the name of company.
- b. Name/Status of Declarant/Certifier. Enter the name and status of the person signing the form.
- c. Place and Date. Enter the place and date the material was certified.
- d. Signature of Declarant/Certifier. The person who certifies on behalf of DoD that the shipment complies with the applicable regulatory requirements must sign the form.

Attachment 4

EXPLOSIVES/HAZARDOUS MATERIALS TRANSPORT PERFORMANCE TEST

Figure A4.1. Performance Test Checklist:

PERFORMANCE TEST			
Trainees Name:		Date:	
Event	Go	No Go	Notes
1. SAFETY PRECAUTIONS AND SHIPPING PAPERWORK			
1.1. Operator has required safety and personal protective equipment (PPE).			
1.2. Operator understands and adheres to command and local directives for explosives/hazardous material transport, including international requirements and restrictions, as applicable, if operating off-base at an overseas location.			
1.3. Operator understands emergency/incident response procedures and knows the appropriate points-of-contact to notify.			
1.4. Operator understands and is able to properly verify all potential explosives/hazardous material shipping paperwork.			
1.5. Operator has explosives/hazardous approved routes on-hand (and understands where to access approved routes). Operator understands explosive/hazardous route and safe haven requirements.			
1.6. Operator understands and demonstrates how to properly placard the vehicle for various types of explosives/hazardous cargo.			
Event	Go	No Go	Notes
2. EXPLOSIVES/HAZARDOUS CARGO TIE-DOWN			
2.1. Operator understands, is able to verify and implement necessary explosives/hazardous cargo tie-down procedures.			

Event	Go	No Go	Notes
3. PARKING			
3.1. Operator understands parking requirements and restrictions.			
CERTIFIER COMMENTS:			