
RRI's DOT EXPLOSIVE MATERIAL PACKAGING & TRANSPORT WORKSHOP

Syllabus - Course 204

Target: Persons responsible for, or involved in, the preparation of and actual shipping operation for explosive materials and wastes containing explosives. This includes, but is not limited to, those responsible for explosive hazard classifications, packaging and loading operations, shipping paper preparation, QA/QC compliance, front-line management, and security.

Length: 2 days

Prerequisite: RRI's DOT Hazardous Materials Transport Workshop (Course 201) or equivalent within the last two years. This course does not address the basics necessary to understand the hazardous material regulations.

Intensity: __ Mild X Medium __ Challenging __ Extreme

Materials: RRI provides all training materials including the latest 49 CFR 100-185. Testing and course completion certificate are also provided.

Objectives & Topics:

Module 1: Introduction, Definitions and Terminology

State the scope and applicability of the Hazardous Materials Regulations (HMRs).

Define specific regulatory terms associated with explosives packaging and transport.

1. Explain the application of the term "in-transportation" as it relates to the movement of hazardous materials.
2. Define "hazardous materials" subject to the HMR.
3. Identify the shipper's responsibilities with regard to HMR compliance.
4. Recognize requirements incorporated by reference into the 49 CFR 100-185.
5. Locate the definition of a given term associated with DOT explosive regulations.
6. Define a given term associated with DOT explosive regulations.

Module 2: Material Classification & Identification

State the requirements for the hazard classification of explosives.

1. List the DOT hazard class, division, and compatibility groups for explosive substances and articles.
2. Explain the classification criteria for explosives.
3. Identify acceptable and requisite knowledge for explosive classification activities.
4. State the explosives that are forbidden to be offered for transportation or transported.
5. State the process for obtaining a DOT explosive hazard classification authorization.
6. Explain the DOD/DOE interim hazard classification process.
7. Address the difficulties of hazard classifying waste containing explosives.
8. Determine the most appropriate proper shipping name for a new explosive.

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Module 3: Packaging & Packages

Select the package for transport of a given explosive material.

1. Identify the minimum packaging requirement for all hazardous materials.
2. Decipher the information presented in a UN specification package marking.
3. State the requirements of the shipper for the use a UN packaging.
4. Identify the specific packaging requirements for an explosive shipment.
5. Apply the requirements in the explosive packaging instruction table.
6. Recognize when a packaging exception applies to a given explosive.
7. Identify the allowances and/or limitations imposed by a DOT Special Permit.

Module 4: Requirements for Transport – Hazard Communications

Apply the DOT hazard communication (marking, labeling, shipping papers, placards) requirements for a given explosive material.

1. Identify the marking requirements for a given package containing a Class 1 material.
2. Determine the labeling requirement for a given package containing a Class 1 material.
3. Prepare a DOT hazardous materials description for a given package containing a Class 1 material.
4. Select the appropriate placards for a given explosives shipment.
5. Identify, if any, the hazard communication exceptions for a given explosives package or shipment.

Module 5: Transport Controls

Determine authorized vehicle loading configuration for packages of explosive materials.

Recognize when incident notification to the DOT is required.

1. Determine the vehicle loading requirements and restrictions imposed on explosives.
2. Determine the separation and segregation requirements and restrictions imposed on packages containing explosives.
3. State when immediate notification to DOT must be made regarding a transport incident.
4. Identify when a written report must be filed to DOT concerning a transport incident.

Module 6: Other Requirements for the Offering and Transport of Explosives

Identify additional requirements for the offering and transport of explosives.

1. Recognize when the DOT registration and fee requirements are applicable based on the offering and transport of a Class 1 material.
2. State the Safety Permit requirements for Division 1.1, 1.2, 1.3 and placard quantities of 1.5 explosives.
3. Identify the carrier and driver specific requirements applicable to the transport of Division 1.1, 1.2, 1.3 and placard quantities of 1.5 explosives.
4. Identify the DOT security requirements applicable to shipments of explosives.
5. Determine the training requirements for a given hazmat employee.