

RRI's ADVANCED DOT HAZMAT PACKAGING & TRANSPORT WORKSHOP

Syllabus — Course 301

Target: The target for this workshop includes individuals who must designate and classify an “unpackaged” material ensuring it is in full compliance with all applicable DOT Hazardous Materials Regulations. Specific disciplines include but are not limited to: shippers; material characterization/classification; laboratory technicians; field operations; environmental samplers; packaging operations; managers and supervisors; inspectors; auditors; engineers...anyone in the materials operations and management arena.

Length: 4 days

Prerequisite: RRI's DOT Hazardous Materials Transport Workshop (Course 201) or equivalent. Active time in operations is recommended.

Intensity: Mild Medium Challenging Extreme

Materials: RRI provides all training materials including the latest 49 CFR 100-180. Testing and course completion certificate are also provided.

Objectives:

Module 1: Introduction to the Hazardous Materials Regulations

Define the scope and applicability of the Hazardous Materials Regulations (HMR).

1. Explain the application of the term “in-transportation” as it relates to the movement of hazardous materials.
2. Define “hazardous material”.
3. Identify the shipper’s responsibilities with regard to HMR compliance.

Module 2: Material Classification & Identification

Classify and determine the description for a material per the DOT HMR defining criteria.

1. Identify what is acceptable knowledge when classifying a material.
2. Classify a given material to the HMR hazard class/division defining criteria.
3. State the hazardous substance exception for certain metals.
4. Apply the CERCLA Mixture Rule for a hazardous substance.
5. Define, per DOT HMR, a hazardous substance.
6. Designate if a material is a hazardous substance.
7. Select the most appropriate proper shipping name for a given waste.

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Module 3: Packaging & Packages

Select the optimal package for transport of a given hazardous material.

1. Distinguish the two main divisions of packaging.
2. State the minimum requirements for all non-bulk packages containing, or intended to contain, a DOT regulated hazardous material.
3. State the requirements of an excepted package for a given hazardous material.
4. Decipher the information presented in a U.N. specification package marking.
5. Determine the maximum vapor pressure of material authorized in a given U.N. specification packaging.
6. Calculate the authorized fill limit for a given U.N. specification packaging.
7. Apply the requirements for a given exception or alternative package for hazardous material.
8. State the two types of DOT Special Permits and their application to a shipper/officer.

Module 4: Requirements for Transport

Apply the DOT hazard communication requirements for a given hazardous material.

1. Identify the marking requirements imposed by EPA and DOT for a given package of hazardous material.
2. Determine the labeling requirement for a given package of hazardous material.
3. Prepare the transport document for a given hazardous material shipment.
4. Select the appropriate placards for a given transport vehicle.
5. Identify the hazard communication exceptions and allowances for a given hazardous material.

Module 5: Controls for Transport

- *Determine authorized vehicle loading configurations for packages of hazardous material.*
- *Identify DOT reporting and security requirements.*

1. Determine, if any, the loading requirements and restrictions imposed on a given hazardous material.
2. State when immediate notification to DOT must be made regarding a transport incident.
3. Identify when a written report must be filed to DOT concerning a transport incident.
4. Recognize the security requirements imposed by the DOT on shipments of hazardous materials.