



M&A Safety Services

512 Viaulet Road
Youngsville, Louisiana 70592
Main: 337-451-4685
Fax: 337-451-5847
www.masafetyservices.com

4-Hour HAZMAT DOT

49 CFR 171-180 (126F)

Course Outline

Prerequisites: This course shall have no formal pre-requisite.

Course Length: 4 hours – Course length shall vary depending on the number of delegates. Total course time includes breaks.

Class Size: The maximum number of delegates that may be trained and tested per instructor shall be thirty-five (35) in the classroom session.

Course Objective

-) Train employees on the Department of Transportation (DOT) shipping, labeling and transport requirements associated with hazardous materials.
-) Delegates should be able to demonstrate knowledge of regulations and resources during written examination.

Course Design

-) Power Point© / Lecture / Audio Video / Visual Aids
-) Demonstrations

Successful Course Completion

-) Requires a minimum score of 75% or better.
-) Grades shall be calculated by dividing the number of questions answered correctly by the total number of exam questions.
-) Delegates will have no more than thirty (30) minutes to complete the exam.

Course Content Summary

-) Classroom

Breaks: 10 minutes (approximately every hour)

Lunch: 1 Hour (if applicable)

Course Outline

About HAZMAT

-) Hazardous Material Transportation Act (HMTA)
-) Hazardous Material Regulations
-) Enforcement Authorities
-) Penalties



M&A Safety Services

512 Viaulet Road
Youngsville, Louisiana 70592
Main: 337-451-4685
Fax: 337-451-5847
www.masafetyservices.com

-) Hazmat Training Requirements
-) HAZMAT Definitions
 - o Hazardous Material
 - o HAZMAT Employee
 - o Cycle of Transportation
 - o Shipper
 - o Hazardous Substance
 - o Reportable Quantity (RQ)
 - o Marine Pollutant
-) Hazard Classes
 - o Class 1 – Explosives
 - o Class 2 – Compressed Gases
 - o Class 3 – Flammable Liquids
 - o Class 4 – Flammable Solids
 - o Class 5 – Oxidizers and Organic Peroxides
 - o Class 6 – Poisonous and Infectious Materials
 - o Class 7 – Radioactive Materials
 - o Class 8 – Corrosive Materials
 - o Class 9 – Miscellaneous Hazardous Materials
-) Precedence of Hazard Table
-) Video: HAZMAT Drivers
-) Five Steps to HAZMAT Compliance

Step 1 – Classification

-) Obtain Shipping Description
-) Review the Hazardous Material Table
 - o Column 2 - Material Description, Proper Shipping Name
 - o Column 3 – Hazard Class/Division
 - o Column 4 – Identification Numbers

Step 2 – Packaging

-) General Packaging Requirements
-) Review Hazardous Material Table
 - o Column 5 – Packing Groups
 - PG I, II, III
 - o Column 7 – Special Provisions
 - o Column 8 – Packaging Requirements
-) UN Specification Codes
 - o Example on Box and Drum
-) Performance Orientation Packaging Example



M&A Safety Services

512 Viaulet Road
Youngsville, Louisiana 70592
Main: 337-451-4685
Fax: 337-451-5847
www.masafetyservices.com

Step 3 – Marking/Labeling

-) Marking Requirements
-) Marking Examples
-) Labeling Requirements
-) Labeling Examples
-) Labeling Requirements cont.
-) Additional Labels on Package
-) Additional Container Markings

Step 4 – Shipping Papers

-) General Requirements
-) Shipping Paper Examples
-) Additional Requirements
-) Shipper's Certification
-) Hazardous/Non-Hazardous Materials
-) Accessibility
-) Retention
-) Emergency Response Information
-) Emergency Response Guidebook
 - o Define colored sections

Step 5 – Placarding

-) General Requirements
-) Placard Examples
 - o Required Size
-) Placard Determination
 - o Non-Bulk
 - o Bulk
-) Placarding Empty or Unpurged Tanks
-) Placard Location/Visibility
-) Placard Flow Chart

HAZMAT Safety

-) Loading/Unloading HAZMAT
-) Review HAZMAT Segregation Charts
-) Carrier Requirements
 - o Highway
 - o Air
 - o Rail
 - o Water
-) Vessel Segregation Chart



M&A Safety Services

512 Viaulet Road
Youngsville, Louisiana 70592
Main: 337-451-4685
Fax: 337-451-5847
www.masafetyservices.com

HAZMAT Security Awareness

- Training Requirements
- Awareness
- Recognition
- Potential Targets
- Security Risks
- Security Checklist
- Security Plans

Practical Session

While there is no formal practical session for this course, table top exercises are conducted.

Training Center Provided Material

- Course Materials
- HAZMAT Table
- NAERG
- Sample Bills of Lading

Delegate Requirements

- None

Reference Material / Documents

DOT 49 CFR 171-180