



ERNEST ORLANDO LAWRENCE  
BERKELEY NATIONAL LABORATORY

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**Environment, Health, & Safety  
Training Program**

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**MAT 0002 DOT Hazardous Materials Ground Shipping**

**Course Syllabus**

**Subject Category:** Hazmat Transportation  
**Course Length:** Varies by vendor  
**Delivery Mode:** Class  
**Schedule:** Offsite vendor

**Course Prerequisite:** No  
**Medical Approval:** No  
**Retraining:** Every 3 years

**Course Purpose:** To provide training for individuals that cause materials to enter commerce in accordance with 49 CFR 172.700. These employees are defined as hazmat employees and includes anyone who:

- Loads, unloads, or handles hazardous materials;
- Designs, manufactures, inspects, marks, maintains, reconditions, repairs, or tests a package, container, or packaging component that is represented, marked, certified, or sold as qualified for use in transporting hazardous materials in commerce;
- Prepares hazardous materials for transportation;
- Is responsible for the safety of hazardous materials; or
- Operates a vehicle used to transport hazardous materials

Additional training is required by the International Air Transportation Association (IATA) regulations for individuals involved in the preparation or transport of dangerous goods by air. Other function-specific training is required for certain DOT Hazmat workers to fully comply with DOT and IATA training requirements.

**Course Objectives:**

Upon completion of the course, the student should be able to:

- Understand the format and organizational structure of the HMR
- Identify the nine classes of hazardous materials and assign materials to the appropriate hazard class
- Utilize the Hazardous Materials Table
- Apply relevant Special Provisions
- Select the proper packaging
- Properly identify, mark and label hazardous materials packages
- Decipher the specification markings on a UN specification packaging
- Properly complete all required documents for ground shipping
- Apply Separation and Segregation requirements
- Select the appropriate placards for transport vehicles
- Understand the roles and responsibilities of a hazmat employee

**Instructor:** Offsite vendor

**Training Compliance Requirements:** 49 CFR 172.700.

**Written Exam:** Yes

**Retraining/Recertification:** Every (3) years