

International Brotherhood of Teamsters -NIEHS Worker Training Grants
Course Description

COURSE TITLE	Hazardous Materials Transportation Safety and Security Course
STUDENT CONTACT HOURS	8 Hours
COURSE DESCRIPTION	This course provides the safety awareness, security awareness and in-depth security training required by DOT for hazmat transportation workers. This course also provides OSHA first responder -awareness level training.
INTENDED AUDIENCE	Drivers, dock workers and other workers involved in the transportation of hazardous materials by truck who may be the first to observe a release of hazardous materials or be aware of a security threat.
APPLICABLE STANDARDS	OSHA 29 CFR 1910.120(q)(6)(i) and 29 CFR 1926.65(q)(6)(i); DOT 49 CFR 172.704(a)(1) and (a)(4).
TEACHING METHODS	Instructor Lecture with student questions and discussion. Small group student activities.
CURRICULUM MATERIALS	96-page student manual: <i>Hazardous Materials Transportation Safety and Security Awareness Training</i> . Employer's hazmat security plan. DOT Emergency Response Guidebook. Drivers Hazmat Pocketbook.
OTHER REQUIREMENTS	A single instructor may teach this course provided that the class size does not exceed thirty (30) students.
INSTRUCTOR QUALIFICATIONS	(1) Completed this course as a student; current certification (including refresher training). (2) Practice taught this course supervised by a more experienced instructor. (3) Evaluated by the Program's Industrial Hygienist. (4) Attends annual IBT Instructor Development Program. (5) Have a commercial drivers license with hazmat endorsement.
TESTING AND PERFORMANCE EVALUATION	10 Question multiple choice Pre-Test. 10 Question multiple choice Post-Test.
MODULES AND LEARNING OBJECTIVES	This course follows topics and learning objectives contained in the student manual. These are listed on the following page.

Health Effects of Hazardous Materials (1 hour)

1. Identify six examples of adverse health effects caused by exposure to hazardous materials.
2. Identify five routes of entry.
3. Define "acute" and "chronic" health effects.
4. Define "local" and "systemic" health effects and "target organ."

Regulations and Standards (1/2 Hour)

1. Identify the DOT training requirements for workers involved in the transportation of hazardous materials.
2. Identify the OSHA training requirements for first responders at the awareness level.
3. Identify the responsibilities of the driver when transporting hazardous materials.
4. Identify the general provisions of the OSHA Hazard Communication Standard.

Identifying Hazardous Materials (1 Hour)

1. Demonstrate how to use the DOT Hazardous Materials Table.
2. Identify the proper shipping name of a hazardous material.
3. Identify the proper marking(s), label(s) and placard(s) for a hazardous material.
4. Demonstrate how to find information about a hazardous material on the shipping papers.

Handling and loading Hazardous Materials (1 Hour)

1. Identify the proper methods to handle hazardous materials in transportation so that containers and packaging are not damaged.
2. Identify the proper loading procedures to keep incompatible hazardous materials apart.
3. Demonstrate the correct use of the DOT Segregation Table for Hazardous Materials.
4. Identify the DOT Compatibility Table for Class I (Explosive) Materials.
5. Identify how to determine the amount of radioactive materials that may be loaded in one vehicle.

Transporting Hazardous Materials (1/2 Hour)

1. Identify the safe driving practices to use when transporting hazardous materials.
2. Identify the safe driving practices for parking a vehicle containing hazardous materials.
3. Identify the proper procedures to follow in the event of a leak or spill of hazardous materials.
4. Identify the four types of information provided in the DOT North American Emergency Response Guidebook.
5. Identify when notification of a hazardous materials incident must be reported immediately to the National Response Center.

Hazmat Transportation Security Awareness (2 Hours)

1. Recognizing security threats.
2. Introduction to employer security plans.
3. Background checks for drivers with hazmat endorsements.
4. Responding to and reporting security threats.
5. Secure work practices

In-depth Hazmat Transportation Security (2 Hours)

1. Employer's hazmat security plan.
2. Personnel security.
3. En-route security.
4. Access control.
5. Site-specific secure work practices