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: *Hazardous Materials Transportation Safety and Security Awareness Training*. 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