

**2011 OSHA Susan Harwood Capacity Building Grant
(SH22297-SH1)**

**Confined Space Entry Hazards
Lesson Plan**

Course Time: 120 Minutes

Course Description:

This course is taught in accordance with the Occupational Health and Safety Administration Code of Federal standards; General Industry Standards 29 CFR 1910.146, or Construction Industry Standards, 29 CFR 1926. The course is intended to train and/or retrain company employees in the essential safety skills and knowledge for non-professional emergency procedures in Confined Space Entry. This class presents the requirements for procedures to protect employees in general industry and construction from the hazards of entry into permit-required confined spaces. Upon successful completion of this course the participant will receive a course certificate.

Course Requirements: Full attendance

Step 1: Planning the Lesson

Instructional Materials:

- Audio-visual equipment
- Instructional Notes
- Training DVD
- Power point presentation
- Student Hand outs
 - Handout #1 Copy of the presentation
 - Handout #2 Permit-Required Information
 - Handout#3 Participant “Level of Knowledge) Assessment
 - Certificate of Completion

Learning Objectives:

- Participants will identify, define, describe
 - Define and describe a confined space
 - Define a permit required confined space
 - Be familiar with OSHA standards and regulation (29 CFR 1910.146, 29 CFR 1926)
 - Understand hazards associated with confined spaces and how to detect them

Step 2: Presenting the Lesson

Introduction: (10 minutes)

- Introduce yourself
 - Include name
 - Title & Experience / Credentials
 - Explain facility restrooms, cafeteria and vending machine locations
 - Explain facility emergency action plan procedures
 - Discuss classroom rules
 - Start the lesson with an “ice breaker” such as an applicable story to capture the participant’s attention, etc.

Class Power Point Presentation: (45 Minutes)

- Definitions of Confined Space Entry
- Definition of a Permit-Required Confined Space Entry
- Classroom exercise: Domino Effect (Analyze and decide if the space is permit-required)
- Confined space entry Safety Hazards and Precautions
- Atmospheric Testing
- Confined Space Atmospheric Testing Video
- Personal Protective Equipment
- How to protect themselves and others (Buddy System)
- Resources

Classroom Participant Discussion Activity: (40 Minutes)

- Analyze a simple news clipping (Six Egyptian Drown Saving a Chicken)
 - Participants will decide if the space is permit-required
- Participants will review a mishap of confined space entry scenario
 - Participants will then be broke into teams
 - Each team will analyze and draft recommended safety audit corrections
 - Each team will use a portable white board to document noted safety hazards & corrections
 - Each team will then present their safety hazards & solutions to the class

Course Review: (15 Minutes)

- Discuss the various types of confined spaces
- Distinguish the difference between a confined space and a permit-required confined space
- Identify atmospheric and physical hazards
- Describe safety measures for both atmospheric and physical hazards

Participant Critiques & Evaluation: (10 Minutes)

- Students will take a “level of knowledge” quiz
- Student will complete a course critique
- Evaluation: Monitor participant non-verbal and verbal reactions

References:

- Occupational Safety and Health General Industry 29 CFR 1910, Retrieved from <http://www.osha.gov/SLTC/confinedspaces/index.html>
- Occupational Safety and Health Construction 29 CFR 1926, Retrieved from http://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_part_number=1926&p_toc_level=1

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