

CONSTRUCTION HAZARDS LESSON PLAN

Course Time: 4 Hours

Course Description:

This course is taught in accordance with the Occupational Health and Safety Administration Code of Federal standards; Construction Industry Standards, 29 CFR 1926. The course is intended to train and/or retrain company employees in the essential construction safety skills and how to prevent construction hazards. This class will present the requirements and procedures to protect employees from hazards in the construction industry. Participants will receive a course certificate upon successful completion of this course.

Step 1: Planning the Lesson

Instructional Materials:

- Power point presentations
- Student Handouts
- Instructional Notes
- Audio-visual equipment
- OSHA Training (E-Tools) web based instructional site
- Recent Construction Accidents Case studies
- Personal Protective Equipment
 - a. Hard Hats
 - b. Vests
 - c. Whistles
 - d. Rubber Boots
 - e. Goggles
 - f. OSHA approved Safety Harness

Participants Handouts:

- Handout #1: Electrical Safety Fact Sheet
- Handout #2: Fall Protection Quick Card
- Handout #3: Fall Protection Fact Sheet
- Handout #4: Trench Safety Tips Card
- Handout #5: Trench Safety Fact Sheet
- Handout #6: Construction Personal Protective Equipment Quick Card
- Handout #7: Student Lesson Handbook

Learning Objectives: Participants will:

- Recognize the four major risks of construction hazards and how to avoid them
- Describe ways to protect themselves from hazards
- Learn how to select and use Personal Protective Equipment (PPE)
- Apply safety procedures when working in a construction environment
- Be familiar with OSHA safety standards

Step 2: Presenting the Lesson

Introduction: (10 minutes)

- Introduce yourself
 - Include name, title experience and credentials
 - Start lesson with an ice breaker:
 - Have everyone give their name and offer an example of a construction hazard they have encountered or might encounter on the job. (Since this is an introduction, there are no wrong answers and no penalty for duplicate answers.) Encourage students to participate.
 - List answers and compare similarities and differences.
 - Explain facility emergency action plan procedures/Discuss classroom rules.
 - Stress safety in the workplace
- Instructors:
 - As assigned by program manager

Audio Visual Presentation: (45 minutes)

- Introduction
 - a. Clip or picture of a recent accident
- Four major risks of construction
 - a. Fall prevention
 - b. Prevent struck by
 - c. Prevent being caught in/between excavation sites, trenches
 - d. Prevent electrocutions
- Personal Protective Equipment
- Definitions
- OSHA resources and training materials

Classroom Participant Discussion Activity: (40 Minutes)

- Participants will review a recent mishap involving a construction worker
- Participants will form teams and discuss causes leading to mishap
- Each team will analyze and document hazards noted during review
- Each team will then present their safety hazards & solutions to the class

Course Review: (15 Minutes)

- Basic Terminology
- How to protect themselves and others
- Proper signs
- Resources

Participant Critiques & Evaluation: (10 Minutes)

- Student will complete a course critique
- Evaluation: Monitor participant non-verbal and verbal reactions

References:

- **Fact sheets obtain from OSHA @ www.osha.gov/OshDoc/toc_fact.html also available in Spanish**
- **Documents obtained from www.osha.gov/doc/outreachtraining/htmlfiles/subpartm.html**

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