

Hazardous Work Zones: Implementing Occupational Safety II



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Course Description

Construction is a high hazard industry that comprises a wide range of activities involving construction, alteration, and/or repair. Examples include residential construction, bridge erection, roadway paving, excavations, demolitions, and large scale painting jobs. Construction workers engage in many activities that may expose them to serious hazards, such as excavation cave-ins, unguarded machinery, being struck by heavy construction equipment, electrocutions, and hazardous materials. OSHA safety standards are designed to reduce on-the-job injuries; health standards to limit workers' risk of developing occupational disease. This three hour **online video course** is designed to assist those in the industry to identify, reduce, and eliminate construction-related hazards.

After completing this course participants will be able to:

- Name factors that pose a hazard to employees working in excavations, and identify how to reduce those hazards.
- Outline at least three procedures that must be followed in order to control and minimize on-the-job injuries.
- Summarize "best practices" for proper handling, storage, use and disposal of hazardous materials.

- Recognize the role of OSHA in the workplace and describe the causes of the most common workplace injuries.
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COURSE OUTLINE

Chapter 1 - Excavations

**Learning Objectives:* 1) State the greatest risk that is present at an excavation. 2) Describe the three primary methods of protecting employees from cave-ins. 3) Name factors that pose a hazard to employees working in excavations, and how to reduce those hazards. 4) Describe the role of a competent person at an excavation site.

- A. Overview
- B. Hazards
- C. Safe Working Conditions
- D. Protective System Design
- E. Inspections
- F. Soils & Testing

Chapter 2 - Electrical Safety

**Learning Objectives:* 1) Describe the basics of electrical safety and the injuries that can be caused by improper contact. 2) Identify the hazards of electricity on a construction site and the best way to prevent those hazards from occurring.

- A. Electricity
- B. Injuries
- C. Hazards
- D. Power Tools
- E. Best Practices
- F. Employer Responsibilities

Chapter 3 - Hazard Communication

**Learning Objectives:* 1) Identify employer responsibilities towards reducing workplace hazards. 2) Be familiar with the information provided in Material Safety Data Sheets.

- A. Employer Responsibilities
- B. Labeling
- C. Material Safety Data Sheets
- D. Training
- E. Protocol
- F. Disposal

Chapter 4 - Tool Safety

***Learning Objectives:** 1) Describe the hazards surrounding the use of hand and power tools. 2) List the important safety tips associated with Powder-Actuated Tools. 3) Explain the basic procedures for safe jack handling.

- A. Hazards
- B. Safety Rules/Precautions
- C. Abrasive Wheels
- D. Radial Saws
- E. Pneumatic Tools
- F. Powder Actuated Tools
- G. Employer Responsibility
- H. Training

Chapter 5 - Materials Handling

***Learning Objective:** 1) Identify, avoid, and control hazardous materials through proper handling, storage, use and disposal 2) Describe the risks associated with the use of cranes, and the necessary precautions that can reduce risk when cranes are at the jobsite.

- A. Hazards
- B. Manual Material Handling
- C. Mechanical Handling (Cranes)
- D. Training
- E. Rigging
- F. Stacking and Storing
- G. Disposal

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