

Construction Safety Standards

Course # AIABLT1301

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Course Description

This six hour video course is a review of the safety codes required for residential construction. Students will be able to understand and describe the basic components of a construction safety program. They will recognize the hazards inherent at a construction jobsite, and describe ways to prevent those hazards. Finally, students will learn the responsibilities of both the employer and the employee in observing established safety practices.

Learning objectives are provided to facilitate understanding and progress. Informal progress checks throughout the module will help you review and measure your understanding of the material. The assessment at the end of each chapter accurately reflects learning objectives. A 70% score on each assessment is required to move on to the next chapter.

After completing this course participants will be able to:

- Recognize the role of OSHA in the workplace and describe the causes of the most common workplace injuries.
- Identify the hazards that prompt the use of fall protection for workers at the jobsite.
- Outline at least three procedures that must be followed in order to control and minimize workplace hazards.
- Create a working emergency action and fire prevention plan.
- Name factors that pose a hazard to employees working in excavations, and identify how to reduce those hazards.
- Summarize "best practices" for proper handling, storage, use and disposal of hazardous materials.

COURSE OUTLINE

Chapter 1- Introduction

***Learning Objectives:** 1) Recognize the role of OSHA in the workplace 2) Distinguish between employer and employee rights and responsibilities 3) Know the employer record keeping responsibilities.

- A. Role of OSHA
- B. Record Keeping
- C. Employee/Employer Rights & Responsibilities
- D. Inspections
- E. OSHA Resources

Chapter 2- Personal Protective Equipment

***Learning Objectives:** 1) Describe the causes of the most common workplace injuries 2) Name the Personal Protective Equipment (PPE) most often used to protect workers.

- A. Protecting Employees
 - B. Head Injuries
 - C. Eye Protection
 - D. Hearing Protection
 - E. Foot Protection
 - F. Hand and Body Protection
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Chapter 3- Falls in Construction

***Learning Objectives:** 1) Describe methods of fall protection available to workers. 2) Identify the hazards that prompt the use of fall protection for construction workers.

- A. Fall Protection
 - B. Personal Fall Arrest Systems
 - C. Guardrails and Safety Nets
 - D. Skylights and Other Openings
 - E. Excavations
 - F. Roofs
 - G. Training
 - H. OSHA's Fall Protection Policies for Residential Construction Video
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Chapter 4- Stairways and Ladders

***Learning Objectives:** 1) Describe safety guidelines and requirements for stairways used at a construction site. 2) List safe practices and requirements for ladders used at a construction site.

- A. Stairs/Dangers
 - B. Ladder Safety
 - C. Assembly & Use
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Chapter 5- Scaffolds

***Learning Objectives:** 1) Recognize the hazards associated with different types of scaffolds. 2) Understand the procedures that must be followed in *order to control and minimize those hazards*.

- A. Types/Hazards
 - B. Fall Protection
 - C. Safe Scaffold Construction
 - D. Types of Scaffolds
 - E. Inspections/Training
 - F. Assembly & Use
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Chapter 6- 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
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Chapter 7- 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
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Chapter 8- Egress/Fire Protection

***Learning Objectives:** 1) Describe OSHA requirements for proper fire prevention, egress, and equipment. 2) Be able to create a working emergency action and fire prevention plan.

- A. Emergency Action Plans
 - B. Exits
 - C. Fire Prevention
 - D. Equipment & Training
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Chapter 9- 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
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Chapter 10- 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
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Chapter 11- 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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