

# Electricity: Electrical Safety for Non-Electricians

Electrical Safety training, designed for the student, is a comprehensive look at electrical hazards. The goal of this course is to raise awareness and help prevent common electrical injuries.

Starting with electrical basics, training identifies the essential elements of electricity; then provides information on hazard awareness and how to avoid dangerous mistakes. Finally, trainees learn how to respond to an electrical mishap.

Electrical hazard reenactments help reinforce the message of practicing safety in the workplace

- Rich multimedia presentation with interactions and quiz
- Print certificate and wallet card
- You have 60 days to complete the course
- CEUs awarded

## Audience

All non-electrician workers.

## Topics

The course presents the following topical areas:

- Introduction
  - Electrical mishap
- Electrical Basics
  - Conductors
  - Insulators
  - Fuses and circuit breakers
  - Ground fault circuit interrupters
  - Voltage
  - Amperes
  - Alternating and direct current
  - Grounding
  - Transferring flammable liquids
- Hazard Awareness
  - Electrical mishap
  - Electrical hazards to be aware of
  - Protecting yourself from electrical hazards
  - Not wearing conductive items

- Hazards of damp boots or gloves
  - Practicing correct safety behavior
- Avoiding Dangerous Mistakes
  - An electrical mishap incorrect procedures
  - Mistakes that contributed to the mishap
  - Procedures to prevent similar mishaps
  - Electrical mishap involving water
  - Actions that contributed to the mishap
  - Measures to prevent similar mishaps
- Responding to an Electrical Mishap
  - Person is shocked and can't release his grip
  - Responding to a person who can't release grip
  - Responding to a person whose shock has ended
  - Correct actions if you are being shocked
- Conclusion
  - Electrical safety on and off the job

### **Intended Learning Outcomes**

Upon successful completion of this course you will be better prepared to:

- Use basic electrical terminology.
  - Explain the term conductor.
  - List examples of conductors.
  - Explain the term insulator.
  - List examples of common insulators.
  - Explain the purpose of fuses, circuit breakers, and ground fault circuits.
  - Define voltage.
  - Explain amperes.
  - Describe the two types of electrical current.
  - Explain the purpose of grounding devices.
  - Explain static electricity.
- Protect yourself from electrical hazards.
  - Describe common electrical hazards to be aware of.
  - Explain procedures to protect you from electrical hazards.
  - Describe behavioral practices to protect you from electrical hazards.
- Prevent mistakes that cause electrical mishaps.
  - Explain safety procedures that will prevent unsafe mistakes.
  - Describe the importance of keeping water and electricity apart.
  - Explain proper use and maintenance of power cords.
- Safely respond to an electrical mishap.
  - Describe safety procedures to follow if you encounter a person being shocked.
  - Describe proper procedures to follow if you are being shocked.