

Electrical Safety: Safe Work Practices

Audience: For all workers

Average Training Time: Average - 20 to 45 minutes

US Code of Federal Regulation Reference: Title 29, Part 1910, Sections 331--335

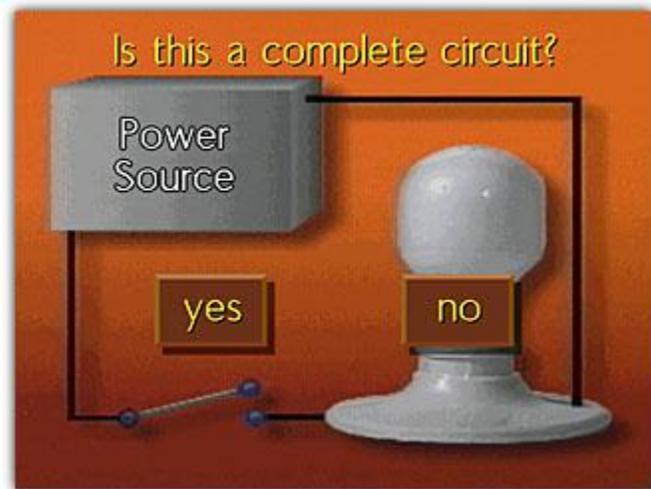
Format / Product Code: CD-ROM (MPEG Video)/ *STESWMPG* Low Bitrate Version/
STESWLBR

Mastery interactive version based on original video content produced by: Summit Training Source, Inc.

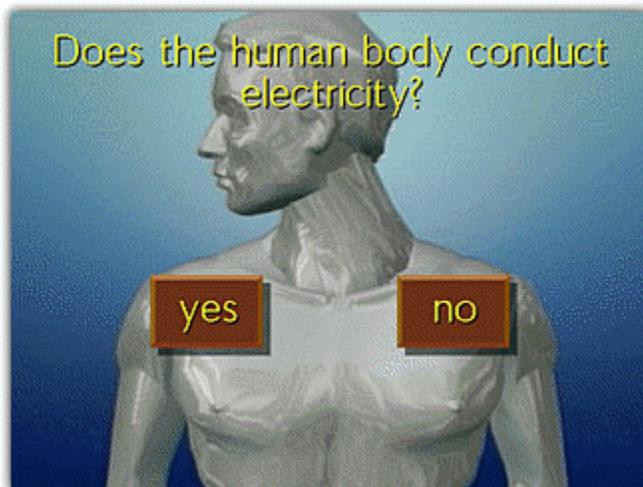
OVERVIEW

“Electrical Safety: Safe Work Practices”, an OSHA 1910.331-335 compliance program, is designed to teach unqualified personnel about basic electricity concepts and associated hazards.

The course also discusses safe usage, personal protective equipment, proper tool selection and use, and safe work practices. This broadcast quality course features



twenty-eight interactions.



TOPICS

The course presents interactive instruction covering the following topical areas:

What is Electricity?

- How Electricity is Generated
- Electrical Circuits
- Conductors
- Insulators
- How Electricity is Measured

Associated Hazards

- Electrical Fires

- Electrical Shock
- Electrical Burns

Distance and Guarding Requirements

- Distance for Non-Qualified Employees
- Distance for Qualified Employees

Proper Use of PPE and Equipment

- Metal Jewelry
- Equipment and Tools

Inspection

- Extension Cords
- Use of Equipment and Tools
- Grounding
- Ground Fault Circuit Interruptors

PERFORMANCE OBJECTIVES

This course will measure mastery on each of the following performance objectives. Upon completion, workers will be able to...

Explain the basic concepts of electricity

1. Identify the components of electricity.
2. Explain how electricity is generated.
3. Identify the difference between conductors and insulators.
4. State the function of an electrical circuit.



Recognize the types of electrical hazards

1. State the function of various engineering controls.
2. Explain how electrical shocks occur and their effects.
3. Recognize the factors that affect the seriousness of injuries.
4. Identify the common causes of electric shock.
5. Explain how electric arcs occur and their hazards.

Recognize the function of distance and guarding

1. Identify distance requirements for qualified and non-qualified employees.

Demonstrate proper use of personal protective equipment

1. Explain hazards of metal jewelry.
2. Recognize potential hazards when working with equipment and tools.
3. Describe proper inspection of equipment.
4. Explain the purpose of grounding.
5. Explain the purpose of GFCIs.