
Course Syllabus:

A-SAF-011

Electrical Safety



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Materials

Computer (PC, laptop)
Internet Connection: High Speed

Requirements

You should print and maintain a copy of this course syllabus and overview on file at your facility. It is recommended that you provide a copy of this document in the event of a regulatory agency (e.g., OSHA) inspection.

Evaluation

Upon completion of the course of instruction, a comprehensive examination will be offered. In order to earn a Certificate of Completion, you must receive at least 80% on the exam. The exam is comprised of at least 10 questions, randomly selected from a database of questions and address each of the lesson topics covered in the course.

Overview

This training course focuses on safe work practices following a three-step procedure for recognizing, evaluating, and controlling electrical hazards. This course does not teach you how to use electric power tools or provide details on power tool safety.

Goals

This course has five, short, learning modules, including:

- Electrical Hazards
- Dangers of Electrical Shock
- Electrical Safety Model
- Safe Work Environments
- Safe Work Practices

Lesson Topics

Module 1 – Introduction

- Course Objectives
- WBT Library
- Glossary
- Learning Assessment & Final Exam
- Additional Information

Module 2 – Electrical Hazards

- Analogy
- Voltage
- Amperage
- Resistance
- Circuit
- Electrical Shocks
- Summary

Lesson Topics – cont'd

Module 3 – Recognition of Hazards

- Hazards of Lower Currents
- Hazards of Higher Currents
- Effects of Electrical Current
- High Voltages
- Delayed Effects
- Current Paths
- Burns
- Electrical Burns
- Arc Flashes
- Thermal Contact Burns
- Fires
- Initial Response
- Summary

Module 4 – Recognizing Risks

- Electrical Safety Model
- Hazard Recognition
- Hazard Evaluation
- Controlling Hazards
- Job Hazard Analysis
- Electrical Codes
- Recognizing Hazards
- Approach Boundaries
- Flash Protection Boundaries
- Overhead Power Lines
- Defective Insulation
- Improper Grounding
- GFCI
- Circuit Overload
- Other Hazards
- Evaluating Risks
- Summary

Module 5 – Safe Work Environments

- Controlling Hazards
- Create a Safe Work Environment
- Lock-Out/ Tag-Out
- Wire Size Selection
- Fixed Wiring Hazards
- Flexible Wiring
- Extension Cords
- Extension Cord Grounding
- Summary

Module 6 – Safe Work Practices

- Introduction
- Control of Electrical Hazards
- Plan Your Work
- Avoid Dangerous Conditions
- Avoid Overhead Power Lines
- Use Proper Wiring & Connectors
- Use & Maintain Tools Properly
- Wear Correct PPE
- Summary

Lesson Topics – cont'd

Conclusion

- Certification Test Code
- Final Exam Prep