



Consulting and Training | Reach New Heights

Course Name

Electrical Safety Course

Sector Name

Health, Safety and Environment

Document Type

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Electrical Safety Course

Course Introduction

Working near electrical sources is dangerous and can be fatal. Any work on or near energized equipment must be done only when measures are in place to provide protection from electric shock and burn. With adequate safety measures in place, every electrical injury and fatality can be prevented.

This course is designed to explore various causes of electrical hazards and engineering methods that result in their prevention.

International Safety Requirements.

This course focuses on international safety requirements, including OSHA and NFPA standards, and provides information on the steps needed for the prevention of electrical injuries to individuals tasked with the operation and maintenance of electrical equipment and activities.

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Target Audience

- ✓ Field supervisors
- ✓ Safety professionals
- ✓ Site managers
- ✓ Lead technicians and technicians
- ✓ Maintenance engineers.
- ✓ Maintenance supervisors

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Learning Objectives

- ✓ Minimize risks by identifying the hazards associated with electrical energy and by complying with safety guidelines.
- ✓ Enhance safety by understanding the difference between low, medium, and high voltage and by adopting the relevant safety rules accordingly.
- ✓ Apply the inspection requirements when working with or on electrical equipment to avoid equipment damage and possible injuries to personnel.
- ✓ Follow inspection requirements for Personal Protective Equipment (PPE) and reduce injuries by identifying defective PPE.
- ✓ Describe and apply the requirements in the most widely used standard for the protection of individuals from the effects of electrical hazards.

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Course Outline

✓ DAY 01

Introduction to safety and the various international standards used.

✓ Common electrical concepts and terms.

The physical properties of electricity:

- ✓ How is it working?
- ✓ Types of electricity
- ✓ Electrical components
- ✓ Electrical voltage (types, hazards, and the control measures to protect against it)

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Course Outline

✓ Day 02

Electrical current (types, hazards, and the control measures to protect against it)

- ✓ Electrical resistance (types, benefits, and optimal use of it for protection)
- ✓ Overhead electrical cables and safe working with them.
- ✓ Portable ladders and how to use them safely in electrical work.

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Course Outline

✓ Day 03

Various electrical effects and their hazards on humans and equipment.

- ✓ Arc-Flash & PPE..
- ✓ The safety standards for choosing the Equipment and tools used in electrical work.
- ✓ Safe work practices with electricity.

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Course Outline

✓ Day 04

Methodology of isolation and locking and its roles in electrical protection (LOTO)

- ✓ Devices and means used in electrical protection.
- ✓ Assess the risks of electrical work.
- ✓ The proper Control measures and precautions to prevent electrical hazards.

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Course Outline

✓ **Day 05**

Safe maintenance and its importance for securing equipment and buildings.

- ✓ How to fight fires that may be caused by electricity.
- ✓ Personal protective equipment should be used when dealing with various electrical activities.

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 8, 2026	June 12, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Sept. 28, 2026	Oct. 2, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 4, 2027	Jan. 8, 2027	5 days	5950.00 \$	Switzerland , Zurich
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai

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