



Health, Safety and Environment

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 results in prevention from it.

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.

Target Audience

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

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.

Course Outline

- DAY 01

Introduction to safety and the various international standards used.

- Common electrical concepts and terms.

The physical properties of electricity:

- How it working.
- Types of electricity
- Electrical components

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

- 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 it.
- Portable ladders and how to use it safely in electrical work.

• Day 03

Various electrical effects and its 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.

• 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.

• 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 that should be used when dealing with various electrical activities.

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 26, 2025	May 30, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
Sept. 22, 2025	Sept. 26, 2025	5 days	4250.00 \$	UAE - Dubai

FROM	TO	DURATION	FEEs	LOCATION
Dec. 29, 2025	Jan. 2, 2026	5 days	5950.00 \$	Switzerland - Zurich