XCELERATE TRAINING INSTITUTE

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ELECTRICAL ENGINEERING

Electrical Safety Procedures and Standards for Electrical Engineers

DURATION	LANGUAGE	FORMAT
10 days	**English**	**Classroom / Online**

Upcoming dates

Dates	Venue	Format	Fee
1 – 12 Mar 2027	Live online	Online (live)	**€1,800**
13 – 24 Sep 2027	Live online	Online (live)	**€1,800**
11 – 22 Oct 2027	France	Classroom	**€7,200**

Register or ask a question

Online: staging.x8ti.com/course/electrical-safety-procedures-and-standards-f…

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Electrical Safety Procedures and Standards for Electrical Engineers

Introduction

Electricity is indispensable in modern life, both at home and in the workplace. Professionals such as electricians, electronic workers, and power line workers engage directly with electricity. Ensuring the safe design, installation, and operation of industrial electrical equipment is crucial for maintaining high standards of electrical engineering safety.

While many individuals work around electricity, they are not necessarily qualified to handle electrical components directly or be exposed to live electrical parts. This "Electrical Safety Procedures and Standards for Electrical Engineers" course is essential for those in the power and energy industries, as electrical injuries rank as the fifth most common cause of occupational fatalities. Implementing the right preventive practices can significantly reduce these injuries.

Learning Objectives

Upon completing this course by Xcelerate Training Institute, participants will be able to:

- Promote electrical safety in office environments.
- Reduce the incidence of electric shock injuries, flash/radiation burns, and electrocution.
- Minimize injuries from failure to stop or operate and unintended operation of electrically powered equipment.
- Prevent electrical hazards caused by surface temperatures and electrical arcing.
- Utilize electrical safety technology with monitoring controls to avert non-electrical hazards.
- Prevent fires resulting from malfunctioning electrical equipment.

Training Methodology

This collaborative training program includes:

- Lectures
- Seminars & Presentations
- Group Discussions
- Assignments
- Case Studies & Functional Exercises Following the ‘Do-Review-Learn-Apply’ model.

Benefits for Your Organisation

Organizations can benefit from:

- Staying ahead with a comprehensive overview of electrical safety procedures and standards.
- Ensuring safe operation of electrical equipment and installations.
- Assisting technical committees and boards in creating, publishing, and updating standards related to electrical safety.
- Supporting relevant authorities in writing, editing, and processing standards for electrical safety.

- Facilitating discussions with government organizations about regulations affecting electrical engineering safety and standards.

Benefits for You

Participants will gain:

- Awareness of the latest developments in electrical safety procedures and standards.
- Training, assessment, and certification by experts in the electrical safety domain.
- Skills to identify, act on, and report issues with electrical safety procedures and standards.
- Competence in performing test activities and site procedures related to electrical safety.
- Knowledge of appropriate PPE tools and methods for ensuring compliance.
- Enhanced skills for further qualifications in electrical safety procedures and standards.

Who Should Attend

This course is suitable for:

- Electricians
- Builders and construction workers
- Communications engineers
- Electricity and energy providers and engineers
- Appliance repair workers
- Cable engineers
- Electrical supervisors
- Electrical managers

Course Outline

Introduction to Safe Working Cultures

- Evaluating existing safety controls
- Importance of culture and mindset in maintaining safe work practices
- Best management practices
- Housekeeping
- Employee orientation and onboarding

Testing Safety Practices

- Testing for chemicals
- Conducting job hazards assessments
- Proper use of personal protective equipment (PPE) in safety procedures
- First aid and resuscitation
- Fire prevention and protection
- Safely working in excavations and other confined spaces

General Requirements for Work Practices

- Identifying training requirements

- Evaluating types of training and documentation procedures required
- Fundamentals of developing an electrical safety program
- Assessing potential risks of working with electrical hazards
- Demonstrating safe use of test equipment and instruments

Establishing an Electrically Safe Work Condition

- Different forms of control procedures
- Requirements for lockout/tagout devices
- Procedures for releasing lockout/tagout devices
- Requirements for temporary grounding equipment

Testing Safe Use of Various Field Equipment

- Hand tools and workshop tools and machinery
- Ladder and scaffolding safety
- Forklift safety
- Crane operation
- Work platforms
- Safely working with compressed gas cylinders
- Drum handling safety
- Safe welding practices

Work Involving Electrical Hazards

- Recognizing electrical hazards and when it is justifiable to work near them
- Purpose and use of energized electrical work permits
- Determining shock hazards associated with approach boundaries
- Required arc flash protection
- Analyzing insulated tools and other protective equipment
- Identifying alerting techniques
- Safety procedures for overhead lines

Safety-Related Maintenance Requirements

- General maintenance of electrical equipment
- Safety-related maintenance practices
- Electrical maintenance requirements for facilities
- Specific maintenance of fuses and circuit breakers
- Importance of maintaining equipment in hazardous locations

Safety Requirements for Special Equipment

- Dangers of working with special electrical equipment
- Safety requirements for special equipment
- Safe work practices for electrolytic cells
- Safe routines for installing and maintaining batteries
- Safe procedures for lasers

- Safe practices for power electronic equipment
- Safe work procedures for laboratories

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Registration Form

Electrical Safety Procedures and Standards for Electrical Engineers

Preferred dates: ..... Venue or online: .....

Duration: 10 days Language: .....

Please complete and email this form to us, or register online. We confirm your place and send the invoice within one working day.

Delegate information

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Official email: ..... Personal email: .....

Company information

Company name: .....

Address: .....

City / country: ..... VAT / tax number: .....

Person responsible for training & development

Full name (Mr / Ms / Dr / Eng): .....

Position: ..... Telephone / mobile: .....

Email: .....

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☐ Please invoice me ☐ Please invoice my company

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