

COURSE CONTENT OVERVIEW

Electrical Safety



Every workplace and person at work makes use of electricity every day. Electricity provides lighting, power, communications, controls and safety features, yet if it is not carefully assessed and controlled, electricity has the potential to cause serious injury.

This Electrical Safety course helps you to recognise the main risks when working with electrical equipment or near to electrical installations. The course explains your legal responsibilities, how to carry out a suitable risk assessment, and how to ensure that the right safety controls are in place to keep workers safe from harm.

Module 1 - Introduction to Electrical Safety

This module explains the importance of electrical safety training and highlights some of the most common injuries that occur from unsafe working practices. The module outlines the legal responsibilities of employers and employees.

- What is electrical safety?
- What are the safety risks?
- Common causes of accidents and injuries
- Legislation and legal duties
- The Institution of Engineering and Technology (IET) Wiring Regulations
- Employer duties
- Employee responsibilities

Module 2 - Risk Assessment

This module looks at each element of an electrical risk assessment and will help you to understand the basic requirements of a good risk assessment for the safe use and maintenance of electrical installations and equipment.

- What is a risk assessment?
- Useful terminology
- Who should carry out a risk assessment?
- Step 1: Identify the hazards
- The fire triangle
- Step 2: Decide who might be harmed and how
- Step 3: Evaluate and control the risks
- The hierarchy of control
- Step 4: Record your findings
- Step 5: Review and update

Module 3 - Controlling Hazards

This module explains how employers and employees can control electrical dangers by ensuring installations and equipment are safe, properly protected and maintained over time.

- Engineering controls
- Safe installations
- Safe electrical equipment
- Electrical controls and isolation
- Residual current devices
- Controlling risk in different work environments
- Higher-risk work environments
- Fire safety and warning systems
- Maintenance and ongoing safety
- Competence and responsibility
- Checks, inspections and tests

Module 4 - Working Safely with Electrical Equipment

This module highlights some of the most common risks encountered by anyone working with or near electrically powered equipment, including work near overhead and underground cables, fire and explosion risks, and risks when working on machinery.

- Working near electrical installations
- Isolation and control of electrical supply
- Written safe systems of work
- High-risk external services
- Overhead power lines
- Underground cables
- Specialist and high-risk environments
- Controls, training and emergency response
- Instruction, information and training
- Safe methods of working - PPE
- Safe methods of working - first aid

Aims of the training

By the end of this course, learners will:

- Understand why training in electrical safety is essential for maintaining health and safety.
- Have knowledge of their employer's, and their own, responsibilities under electrical safety legislation.
- Understand what is involved in carrying out a risk assessment of the workplace.
- Understand the importance of maintaining and inspecting electrical equipment.
- Have knowledge of the controls that can be used to help make working with electricity safer.
- Understand the best practices when working with electricity, including overhead power lines, underground cables and indoor work near to a source of electricity.