



Electrical Fundamentals E-Learning Course

This suite of e-learning modules is designed to make attendees aware of some of the key aspects relating to electrical installations. They also highlight the risks associated with electrical systems, the procedures that electricians should follow to ensure that work is safely carried out, and that completed installations are left in a safe condition for the end user.

Course duration Each e-learning module is approximately 20 minutes long (total seat time 100 minutes)

Who should attend?

These modules are ideal for those who manage or administer the work of electricians and maintenance operatives, whether employed or contracted and are looking for a demystification of the electrotechnical sector; it is therefore assumed that those attending will have a limited amount of prior electrical knowledge. They are also suitable for electricians who wish to refresh or improve their existing knowledge.

Learning outcomes

Upon completion of all five modules, you will receive a certificate of attendance issued by NICEIC.

Course outline

The module content and learning outcomes are outlined as follows:

Module 1 - Electrical Safety and Awareness

Explains the legal requirements applicable to those working on or near electrical systems, and the relationship to the need for people to be competent for the task at hand.

Module 2 - Electrical Fundamentals

Provides an overview of the key principles required to understand the operation of simple electrical circuits and the relationship between voltage, current and resistance.

Module 3 - Installation Overview

Provides an overview of typical electrical installation features, including considerations for the correct identification of equipment and protective devices.

Module 4 - Protection for Safety

Provides an awareness of the fundamental measures used to achieve safety, including equipment construction types and installation considerations. This module includes an overview of earthing and bonding and the application of Residual Current Devices (RCDs) for additional protection.

Module 5 - Verification and Certification

Raises awareness of the importance of correctly verifying installations and understanding what to look for upon receipt of certification. (This module does not cover condition reporting.)

Assessment body



Next steps

Electrical Fundamentals for Maintenance Operatives - EFMO (3-day)

Please note prerequisites are required for this course so please contact us to discuss suitability

Why train with us?

We provide:

- Training developed by subject matter experts
- High quality training materials
- Confidence that your training comes from a business with more than 65 years of industry and technical experience
- Support throughout to ensure your full understanding across all aspects of the training

Are you interested in taking this or any of our other courses?

Contact our friendly training team to discuss your needs further



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