Introduction to Electrical Building Services
13 hour technical course

Course Introduction
This course offers a simple but thorough review of all aspects of electricity use within buildings.

You will learn:
- How electricity is generated, transmitted and enters buildings.
- How electricity is used in buildings through lighting, power, heating systems and other examples.
- Electrical protection and miscellaneous and associated systems such as fire alarm systems, lighting protection and IT network systems.

Course units
Each part is sub-divided into units of approximately one study hour each. Each unit has mini-assessments built in to help you ensure you understand what you have learned in each unit.

- **Unit 1** Introduction to Electrical Building Services
- **Unit 2** Power Generation and Transmission
- **Unit 3** Supply and Distribution of Low Voltage Electricity
- **Unit 4** Final Circuits and Earthing
- **Unit 5** Motors and Drives
- **Unit 6** Mechanical Plant and Controls
- **Unit 7** Lighting Systems, Design, Controls and Emergency Lighting
- **Unit 8** Uninterruptible Power Supply Systems
- **Unit 9** Fire and Intruder Alarms
- **Unit 10** Lightning Protection Systems
- **Unit 11** Data Networks
- **Unit 12** Case Study
- **Unit 13** Final Assessment

Key features
- Introductory level
- Includes real-world examples and case studies

Learning outcomes
- Understand all general aspects of electricity use within buildings
- Be able to converse with more senior electrical engineering staff
- Be confident with electrical products

Course content may be subject to change or updates. Please contact the IET for the latest course content.
What makes the IET Academy online courses different?

A new training resource from the IET, the Academy provides flexible e-learning using the latest techniques to enhance engagement and recall. Each individual unit is fully interactive, with tasks to complete along the way to help embed your learning. Hosted on the renowned Cross Knowledge platform, the Academy uses proven, effective learning techniques.

Benefits for organisations

This course can be booked for multiple users across your organisation, ensuring that your workforce is up to date and working to the same level. The flexible access allows learners to complete modules in their own time and at their own pace, so that businesses are not impacted by external training days.

Cost effective and flexible

For many engineers staying informed of changing technology in order to remain current in their role is paramount, however, finding the time and budget to attend external training is challenging. The IET Academy’s flexible learning platform allows access to training ‘anytime, anywhere’ or the course content can be quickly and easily integrated into an existing learning management system.

Who should take this course?

This course is suitable for electricians, engineering students, electricians’ apprentices, non-technical staff and other members of staff who want to learn more about wider electrical building services and how their products fit in.

Other Related Courses

- Engineer to Manager
- 18th Edition Certificate in the Requirements for Electrical Installations, BS 7671:2018 – Full Course
- 18th Edition Certificate in the Requirements for Electrical Installations, BS 7671:2018 – Update Course
- Applying the 18th Edition IET Wiring Regulations: The On-Site Guide Training Course
- Risk and Safety Management for Engineers

How to purchase

- To buy a single course or set of units for your personal learning go to the Academy online store www.theiet.org/academy
- For multi-user licences for your company email academy@theiet.org

We offer free trials and demonstrations for customers interested in a company-wide training solution.

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