



*Training Course:
Basic Electricity Course - CPD Accredited*

*20 - 24 December 2026
Cairo (Egypt)*

Training Course: Basic Electricity Course - CPD Accredited

Training Course code: EN234581 From: 20 - 24 December 2026 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Electricity is fundamental to modern infrastructure, powering homes, industries, and technologies. A solid understanding of basic electrical principles is essential for safe operation, maintenance, and troubleshooting of electrical systems.

This CPD-accredited program, designed by Global Horizon Training Center, provides participants with foundational knowledge and practical understanding of electrical concepts, components, and safety practices required for working with electrical systems.

Course Objectives

By the end of this program, participants will be able to:

- Understand basic electrical concepts and terminology
- Identify electrical quantities such as voltage, current, resistance, and power
- Interpret simple electrical circuits and diagrams
- Apply basic electrical calculations
- Recognize common electrical components and their functions
- Follow safe working practices in electrical environments
- Identify basic electrical faults and troubleshooting methods
- Support maintenance and operational activities

Target Audience

This program is designed for:

- Entry-level Electrical Technicians
- Maintenance and Operations Personnel
- Non-electrical Engineers requiring basic knowledge
- Facility and Building Maintenance Staff
- Technical Support Staff
- Individuals seeking foundational electrical knowledge

Outline

Day 1: Fundamentals of Electricity

- Introduction to electricity and its applications
- Basic electrical quantities voltage, current, resistance
- Types of current AC and DC
- Units of measurement and symbols
- Electrical safety basics

Day 2: Electrical Circuits and Components

- Basic circuit concepts
- Series and parallel circuits
- Common electrical components resistors, capacitors, switches
- Reading simple circuit diagrams
- Introduction to electrical tools

Day 3: Electrical Measurements and Instruments

- Measuring voltage, current, and resistance
- Use of multimeters and basic instruments
- Testing electrical circuits
- Identifying faults and issues
- Practical measurement techniques

Day 4: Basic Electrical Calculations and Applications

- Ohm's Law and power calculations
- Electrical load calculations
- Energy consumption basics
- Simple problem-solving exercises
- Application in real systems

Day 5: Safety, Maintenance, and Troubleshooting

- Electrical safety standards and procedures
- Preventive maintenance basics
- Identifying common electrical faults
- Basic troubleshooting techniques
- Case studies and practical examples

Registration form on the Training Course: Basic Electricity Course - CPD Accredited

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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