

Best Practices in Electrical Equipment and Control Systems

COURSE OVERVIEW

This course focuses on the best practices for the design, operation, maintenance, and troubleshooting of electrical equipment and control systems. It provides participants with practical knowledge and skills to enhance the reliability, efficiency, and safety of electrical systems across industrial, commercial, and renewable energy sectors. Through a blend of theoretical concepts, real-world case studies, and hands-on exercises, participants will learn to implement industry-leading practices and comply with essential standards.

WHO SHOULD ATTEND?

The course is designed for electrical engineers, technicians, and operators involved in the installation, maintenance, and troubleshooting of electrical systems. It is beneficial for control systems engineers, automation specialists, and maintenance personnel working with industrial control systems. Professionals in manufacturing, energy, and utilities sectors seeking to enhance their knowledge of electrical equipment and control system efficiency will also find value through this course.

COURSE OUTCOMES

Delegates will gain knowledge and skills to:

- Understand the types, functions, and applications of key electrical equipment.
- Learn the fundamentals of control systems and their integration with electrical equipment.
- Implement industry best practices for the design, installation, operation, and maintenance of electrical systems.
- Develop skills to diagnose and resolve issues in electrical equipment and control systems.
- Understand and adhere to industry standards and regulations for electrical safety and reliability.
- Explore the role of IoT, automation, and smart technologies in improving system performance.
- Identify and mitigate risks associated with electrical systems to ensure a safe working environment.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- Fundamentals of Electrical Equipment and Applications
- Control System Principles and Integration
- Industry Best Practices for System Design and Maintenance
- Troubleshooting Techniques for Electrical Systems
- Compliance with Industry Standards and Safety Regulations
- Impact of IoT, Automation, and Smart Technologies
- Risk Identification and Safety Management in Electrical Systems

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded