ELECTRICAL CONTROL AND DRAWINGS

ELC017

COURSE OVERVIEW

This course is designed to provide participants with a comprehensive understanding of electrical control systems and the essential skill set required to interpret and create electrical drawings. This course covers fundamental principles of electrical control, introduces industry-standard symbols and codes, and emphasizes hands-on experience with electrical drawings. Participants will gain practical knowledge to design, interpret, and troubleshoot electrical control systems.

COURSE OBJECTIVES

By the end of the course, participants will be able to:

- Comprehend the basic principles of electrical control systems.
- Identify components and devices commonly used in control circuits.
- Interpret electrical drawings, schematics, and diagrams.
- Recognize symbols and codes used in electrical drawings.
- Develop electrical drawings for control systems.
- Implement industry best practices in drawing creation.
- Diagnose common issues in electrical control systems.
- Develop problem-solving skills for efficient troubleshooting.
- Understand and implement safety protocols in electrical work.
- Demonstrate awareness of potential hazards in control systems.

WHO SHOULD ATTEND

- Electrical engineers and technicians.
- Maintenance personnel involved in electrical systems.
- Electrical design professionals.
- Anyone seeking to enhance their knowledge of electrical control systems and drawings.

COURSE DURATION

5 Working Days

COURSE OUTLINES

1. Introduction to Electrical Control Systems
    - Basic concepts and components.
    - Types of control systems.
2. Electrical Symbols and Codes
    - Interpretation of symbols and codes.
    - Industry standards for electrical drawings.
3. Control Devices and Components
    - Study of relays, timers, and other control devices.
    - Practical applications of control components.
4. Reading and Interpreting Electrical Drawings
    - Breakdown of electrical drawings.
    - Hands-on exercises in interpretation.
5. Creating Electrical Drawings
    - Guidelines for creating clear and accurate drawings.
    - Software tools for drawing creation.
6. Troubleshooting Techniques
    - Strategies for identifying and resolving issues.
    - Case studies and practical troubleshooting exercises.
7. Safety in Electrical Work
    - Overview of electrical safety standards.
    - Practical application of safety measures.