

BASICS OF ELECTRICAL EQUIPMENT

ELC001

COURSE DESCRIPTION

This course covers electrical equipment technology, schematic drawing and wiring methods. It will provide the participants with a basic understanding of the theory and technology of an electrical nature. The participant will develop a working schematic and wire a functional control panel as part of the training. The course provides training knowledge of theory, technology, and troubleshooting techniques.

COURSE GOAL

To enhance the participants' knowledge, skills, and ability necessary to understand the fundamentals of electrical equipment.

COURSE OBJECTIVES

By the end of this course, participant will be able to:

- Identify the hazards associated with electrical circuits.
- Understand AC and DC circuit theory and analysis.
- Properly apply electrical protection devices.
- Understand electrical symbols and schematic design.
- Understand and practically apply wiring methods.
- Practical and efficient troubleshooting methods.

WHO SHOULD ATTEND

• Machine operators.

COURSE DURATION

5 Working Days

COURSE OUTLINES

- Electrical safety.
- Basic DC circuits.
- Basic AC circuits.
- Push button and limit switch technology.
- Photocell and proximity switch technology.
- Relay and contactor technology.



- Fuse technology and other circuit protection devices.
- Single phase transformer technology.
- Conductors and insulators.
- Wiring methods.
- Electrical symbols and drawings.
- Basic motor operation.
- Control circuit wiring.
- Troubleshooting techniques and application.

