

Course Overview:

This course is deliberately planned to allow trainee to return to the workplace with new professional skills and knowledge to carry out electrical maintenance and operation tasks. Delegates gain best experience in using test equipment (e.g. multimeters, isolation testers, insulation testers etc.) as well as reading and interpreting circuit drawings. Delegates learn to wire up circuits and carry out fault finding on our electrical training rigs.

Course Objective:

- This advanced training courses intended for all experienced operators and technicians involved in
- This programme is aimed at non-electrical personnel who are required to understand and carry out basic electrical maintenance tasks and fault finding on electrical machinery.

Course Outline:

- Introduction to Electricity
- Electrical Site Safety (Direct touch – indirect touch – Isolation – Grounding- Protective devices)
- Circuit breakers
- Introduction to Power & control circuits for machines
- Explain the parts of the contactor and how it works
- Explanation and how to do the following
- Relay
- Timer
- Push Button switch
- Protection elements in electrical circuits
- Servo Motors – principles and basic testing
- Programmable Logic Controllers – introduction and basic programming
- Circuitry and Troubleshooting
- Function of Circuit Components
- Sensors & Actuator
- Variable Frequency Drive
- Types of flow diagrams and explanation of reading electrical drawings (Single line diagram & Three line diagram)
- Basics of reading P & ID

Who Should Attend:

- This course is designed for operators Professionals, technicians , maintenance operators

Training Language:

EN / AR

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation