

**Course Overview:**

In this course, we focus on industrial, electrical basics, power and control circuit, we will start with the absolute basics of electrical circuits. We look at the fundamentals of resistive circuits.

The course looks at the different types of control circuits and where they come from in the real world, focussing on Reading Electrical Drawings. As this is a course on the fundamentals of electrical controls, we will go through the basics of control circuits such as, normally open and normally closed, and look at how controls are made up of series and parallel circuits.

**Course Objective:**

1- General knowledge about the principles of electricity  
2 - Identify the types of electrical connections (single- triple)  
3- Identifying the operation method and components of the contactor  
4 - Identify the components of the main and control circuits  
5 - identify the operation way of control circuit components.  
6- Ability to read electrical drawings.  
7- Ability to design some control circuits

**Course Outline:**

1. INTRODUCTION TO ELECTRICITY
2. ELECTRICAL BASICS
3. INTRODUCTION TO POWER & CONTROL CIRCUITS
4. EXPLAIN THE PARTS OF THE CONTACTOR AND HOW IT WORKS
5. EXPLANATION AND HOW TO DO THE FOLLOWING Relay Timer Push Button switch  
Protection elements in electrical circuits  
( CB - O.L - Fuse - R.C.C.B )
1. EXPLANATION OF READING ELECTRICAL DRAWINGS ( SINGLE LINE DIAGRAM & THREE LINE DIAGRAM )

**Who Should Attend:**

This training programme is suitable to a wide range of professionals but will greatly benefit:

Electrical Engineers, Electrical Technicians, Maintenance Technicians, Electrical Installations

**Training Language:**

EN / AR

**Training Methodology:**

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