



# **Basic PLC**

#### **Overview:**

- Not every industrial application demands a complex PLC. A few inputs and outputs are often sufficient to automate a simple application quickly and reliable.
- A small and simple PLC that has an equally uncomplicated programming language can quickly be learned.

## **Participant Profile:**

- Operation, Maintenance, Assembly & Planning personnel designers.
- Engineering Students.

### **Contents:**

- Introduction to Electrical Hardware.
- Working with Relay logics control, Timer operation.
- Concept of Inching, latching and interlocking.
- Architecture PLC.

### **Learning Target:**

The Participants will be able to

- Solve the Logic and do proper Electrical Wiring.
- Read out and create hardware configurations
- Create logics associations and sequences as PLC programs and commission these.
- Implement modes such as Automatic, Manual and Emergency Stop.
- Combine various program modules to structured programs.
- Identify and eliminate faults using the status display of PLC based systems.

### **Prerequisites:**

- Knowledge on Digital Electronics.
- Basic knowledge on computer application
- Communication Skills in English.

### **Evaluation**:

- Theory & Practical Exam
- Project work based on Industrial Application.

### Fee:

• Contact us for more details.

### **Teaching & Learning Media:**

Practices on Logic Gates.

- Multimedia Presentation.
- Cut-section & Transparent models.

Programming Languages (like LD, SFC, FBD, etc.)

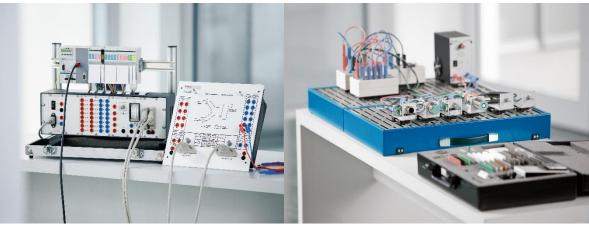
Time delay, Comparator and Counter operation.

Program editing and Fault analysis of PLC.

• Sample units & Power units.

### **Time Durations:**

- 36 Hours
- 6 Hours/ Day



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