

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 reliably.
- 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 of PLC.
- Programming Languages (like LD, SFC, FBD, etc.)
- Practices on Logic Gates.
- Time delay, Comparator and Counter operation.
- Program editing and Fault analysis of 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.

Teaching & Learning Media:

- Multimedia Presentation.
- Cut-section & Transparent models.
- Sample units & Power units.

Evaluation:

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

Time Durations:

- 36 Hours
- 6 Hours/ Day

Fee:

- ₹ 5500/- + GST

