

Classical control & PLC Basic programming

Pre-request: General Knowledge about electricity

Course duration: 40 Hours

On completing this course you will be able to:

- Understand all basics of any control panel and its complicated connections
- Able to connect any production line with classical control
- Understand the internal hardware of any PLC device
- Able to connect any digital input or output
- Learning basics of ladder programming
- Able to make the program for any production line
- Able to work on the software of Allen Bradley company
- Able to work on the software of Siemens specially s7-1200

Course Content:

- Electrical basics for any control engineer.
- Classical control Basics.
- Protection of control circuits (Over load & Short circuit).
- Contactors and Relays.
- Start-Stop motor circuit with classical control.
- Reverse direction of motor with classical control.

- Start delta circuit of 3phase motor with classical control.
- Using timers in classical control.
- PLC hardware configuration.
- Basic of ladder language.
- Allen Bradley company software.
- Siemens TIA software.
- Control of tanks filling using PLC.
- Control of doors using PLC.
- Control of conveyers using PLC.
- Batching process control.
- Silo process control.
- Garage door control.
- Using Counters in PLC.
- Using Timers in PLC.
- Work on sample production line