

## Advance PLC Training

PLC:Siemens - SIEMENS - S7/1200 series / AB - Micrologix1400  
/Delta-DVP Series

- Introduction to PLC hardware/architecture and role in automation
- Architectural Evolution of PLC
- Introduction of the field devices attached to PLC(Push Buttons ,Selector Switches,Coils,Lamps etc)
- PLC Fundamentals - (Block diagram of PLC's)
- Detail information about PLC components Power supply, CPU, I/Os, Communication bus
- Various ranges available in PLC's
- Types of Inputs & outputs / Source Sink Concepts
- Live Wiring of the I/O devices with PLC
- Introduction of Timers,Counters and its types
- Selection of PLC depending on projects and I/Os
- Programming of PLC using Ladder Logic
- Upload, download, Monitoring of programs
- Monitoring / Modifying data table values
- Standard procedure to be followed in wiring / writing ladder etc
- Documenting the project

### operations and maintenance of Plc

- Identifying the status of PLC and communication bus
- Fault detection and error handling
- Forcing of the I/O's
- Back up of the programs and reloading
- Replacing the faulty modules
- CPU, I/O, Communication module replacements,Troubleshooting