

## PLC Programming & SCADA

### Session : 1 Basics of electrical

- AC/ DC Principles
- Hydraulics & Pneumatics.
- Electrical symbols used in Industries,
- 1Phase & 3Phase power supply.

### Session : 2 PLC Details

- History of PLC,
- Difference between relay, contactor & PLC logic, PLC architecture.
- A detail description PLC Session : :s & cards

### Session : 3 I/O configuration & Memory

#### Mapping

- Why I/O configuration is required?
- How the I/O Session : :s are addressed for Messung, Mitsubishi, Delta , AB & Siemens – PLCs

### Session : 4 Programs & Ladder diagrams

- First steps with the programming device, introducing the basic ladder logic instructions, contacts, coils, and PLC scan.

### Session : 5 The instruction Set

- A look at the instructions covered in all the PLC. Each instruction being illustrated by application specific program examples. The instructions covered are:-  
NO/NC, Set, Reset, Timers, Counters, Comparison, Arithmetic, Logical & Move functions

### Session : 6 Communications & fault finding

- An introduction to communication options available for the type of PLCs includes also how to find hardware faults and probable causes.

### Session : 7 SCADA

- Introduction to SCADA,
- Configuration of different drivers, gateway.
- Database of tags and its use.
- Interfacing with PLC and simulation of PLC application in SCADA.

#### Duration

Duration: 30 Days

#### Benefits

10% discount on any RoboZZ Lab's product

Study Materail