

PLC SCADA

PROGRAMMING



CURRICULUM

» PLC, SCADA Programming

- Digital Electronics Basics
- PLC Fundamentals, PLC Hardware & Architecture
- Wiring Different field Devices to PLC
- Creating applications with Programming Software
- Programming Languages, Basic Instructions
- Load/and/or/out/and Read/Write instructions
- Compare/Add/Sub/And/or – blocks instructions
- Move, File Handling, Timer, Counter block
- Master control/set/reset function
- Advance Instructions
- Upload/Download/Monitoring of programs
- Forcing of I/Os, Fault finding/troubleshooting & documentation
- Monitoring/Modifying Data table values
- Communication with SCADA software
- Hands on experience on real time applications

» Supervisory Control & Data Acquisition

- Introduction to SCADA software
- Creating New SCADA Project
- Creating database of Tags
- Creating & Editing Graphic display
- Attaching controls to graphic objects sizing, Blinking, Filling
- Analog Entry, Movement of objects, Visibility
- Real time & Historical Trending
- Creating Alarms & Events
- Application of scripts
- Communication with PLC/excel/different protocols
- Net DDE Communication
- Fault finding/Troubleshooting

» Variable Speed Drives & Motors

- AC motors, operations & limitations
- Motor Starters : DOL, Star-Delta, Auto Transformer
- Motor control circuits, interlocking circuits
- Introduction to AC drives & applications
- Criteria for drives selection
- Parameter programming
- Designing of drive control panel
- Communication with PLC, SCADA software
- Fault finding/troubleshooting.
- Soft starters & their advantages over conventional starters.

» Panel Designing & Auto Cad

- Introduction to switch gears & accessories
- Basics of control & power drawings
- General protection involved in panel
- Load management (connected load, running load, load factor)
- Indications (Ammeter , Volt Meter, PF & KW Meter etc.)
- Preparation of general arrangement diagrams, busbar sizing
- Electrical Protection
- Preparation of power & control circuits
- General wiring guidelines/practices
- Maintenance & troubleshooting of control circuits in live panels.

Partners :



Java



development | consultancy | training

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