



Technologics

Diverse Technology | Seamless Integrity

*A New Beginning of
Automating India...*



**100% PLACEMENT
ASSISTANCE**



STATE OF ART LAB



PROGRAMMABLE LOGIC CONTROLLER (PLC)

- ✓ Introduction - Automation
- ✓ PLC Hardware / Architecture
- ✓ Relay / Digital Logics
- ✓ Ladder Logics Programming
- ✓ Functional Block Programming
- ✓ PLC Scan Cycle
- ✓ Bit, Byte & Word Instructions
- ✓ Compare / Logical / Arithmetic
- ✓ Program Control Instructions
- ✓ Timer, Counter Configuration
- ✓ Instruction Set, SFR
- ✓ PID Mode Programming
- ✓ Upload / Download / Monitoring of Program
- ✓ Forcing Inputs & Outputs
- ✓ Analog Input / Output Addressing
- ✓ Digital Input / Output Addressing
- ✓ PLC Troubleshooting
- ✓ I/O Modules Configuration
- ✓ Panel Wiring Designing
- ✓ Communication Drivers
- ✓ Networking Configuration
- ✓ MMI / SCADA Interface
- ✓ Applications



SUPERVISORY CONTROL & DATA ACQUISITION (SCADA)

- ✓ Introduction - SCADA
- ✓ Creating Database
- ✓ Images, Objects Configuration
- ✓ Dynamic Properties (Blinking Visibility, Movement, Filling)
- ✓ Tag Creation & Addressing
- ✓ Macro Editor
- ✓ Alarm / Events Configuration
- ✓ Trends - Realtime & Historical
- ✓ Database & DDE Connectivity
- ✓ I/O Driver Configuration
- ✓ Interfacing with PLC
- ✓ Recipe Management
- ✓ OPC/ODBC

VARIABLE FREQUENCY DRIVE (VFD)

- ✓ VFD Selection
- ✓ Parametrisation
- ✓ Checking Load
- ✓ Rated Voltage
- ✓ Rated Current
- ✓ Rated RPM
- ✓ Commissioning, No Load Test
- ✓ Interfacing PLC to VFD
- ✓ Speed Modulation
- ✓ ON/OFF Command
- ✓ Trip[Status / PID Tuning
- ✓ Real Time Interface with PLC & SCADA



MAN/HUMAN MACHINE INTERFACE (HMI)

- ✓ Introduction To MMI/HMI
- ✓ Designing in HMI Software - Different Types of Operator Interfaces, Textual & Graphical
- ✓ Properties for the Design
- ✓ I/O Configuration
- ✓ Wiring Practice of HMI
- ✓ Data Handling with HMI
- ✓ Configuration and Interfacing to PLC & PC



PNEUMATICS & FIELD INSTRUMENTS

- ✓ On/Off Solenoid Valves
- ✓ Piston Displacement
- ✓ Control Valves
- ✓ Actuator
- ✓ I/P Convertor
- ✓ DP Transmitter
- ✓ Level Transmitter
- ✓ Level Transmitter
- ✓ Flow Transmitter
- ✓ RTD / Thermocouple
- ✓ Flow Control
- ✓ Level Control
- ✓ Temperature Control
- ✓ Proximity Sensors

DISTRIBUTED CONTROL SYSTEM (DCS)

ABB 700 FREELANCE CONTROLLER

- ✓ Architecture of DCS
- ✓ Comparison of PLC and DCS
- ✓ Hardware Configuration
- ✓ I/O Modules
- ✓ Communication Modules
- ✓ Troubleshooting
- ✓ I/O Wiring
- ✓ Programming
- ✓ CPU IP Setting
- ✓ CPU Addressing
- ✓ Node Addressing
- ✓ Upload / Download and Monitoring
- ✓ SCADA Interfacing
- ✓ Fault Detection
- ✓ Operator Interface
- ✓ Designing
- ✓ OPC/ODBC
- ✓ Controller Interface
- ✓ Communication Protocol
- ✓ Ethernet



ABB

Training Duration, Timings & Fees Details

ADVANCE TRAINING IN AUTOMATION & CONTROL ENGINEERING (ATAC)

NT: 36 DAYS

FT: 18 DAYS

6 PLC, 2 SCADA, 1 VFD, PROCESS & FIELD INSTRUMENTS, CPD&W, EDC, INDUSTRIAL ORIENTED PROJECTS & SOFTSKILL

ADVANCE DIPLOMA IN AUTOMATION & CONTROL ENGINEERING (ADAC)

NT: 60 DAYS

FT: 30 DAYS

7 PLC, 3 SCADA, VFD, PROCESS & FIELD INSTRUMENTS, HMI CPD&W, EDC, MCC PANEL, ERECTION & TROUBLESHOOTING OF AUTOMATION PANEL BASICS, INDUSTRIAL ORIENTED PROJECTS, SOFTSKILL & INSTRUMENTATION

POST GRADUATION DIPLOMA IN AUTOMATION & CONTROL ENGINEERING (PGDAC)

NT: 90 DAYS

FT: 45 DAYS

8 PLC, 5 SCADA, ADVANCED SIEMENS 2 VFD, 2 HMI, PROCESS & FIELD INSTRUMENTS, CPD&W EDC, DCS, MCC PANEL, ERECTION & TROUBLESHOOTING OF AUTOMATION PANEL, INDUSTRIAL ORIENTED PROJECTS SOFT SKILL & INSTRUMENTATION

ADVANCED SIEMENS TRAINING CERTIFICATION

NT: 20 DAYS

FT: 10 DAYS

PLC(S7 300), SCADA(WINCC), VFD(MM440) HMI (KTP 700), EDC, CPD&W, FIELD INSTRUMENTS WITH PNEUMATIC SYSTEM

NT - 3 Hours/Day

FT - 6 Hours/Day



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Our International Presence :

