Topics Covered under Advanced Customized Training - AACIII

CUSTOMIZED WEEKEND COURSES

For

Working Professnel only

Siemens

Rockwell Package (Allen Bradley)

Mitsubishi,Schneider

ABB,DELTA

PLC, SCADA,DCS,HMI, Drives, E-Cad Training ,Field Instrumentation & Field Training

AMIATC is Specialized in , PLC, SCADA, DCS, HMI, CAD, Drives, Hydraulic, Pneumatic, Industrial Automation, Control & Safety System in industry and IT Solutions with Security Systems.

PLC Training Overview:

- ❖ Basic of Electronics, Electrical, Instrumentation, Programming, Process.
- ❖ Advanced of Electronics, Electrical, Instrumentation, Programming, Process.
- ❖ Understanding for Automation & Control
- ❖ History of PLC
- ❖ Basic & Advanced Components of Automation
- ❖ Hardware / Software classification of Automation
- ❖ Application of Industrial Automation

PLC and SCADA Course Content :

- ❖ Basic & Advanced level PLC Programming.
- ❖ Introduction of Ladder Logic
- ❖ Introduction of SFC
- ❖ Introduction of Instruction list
- ❖ PLC Hardware Fundamentals.
- ❖ Ladder Logic Concepts.

- ❖ Architecture of PLC
- ❖ Application and Advantage of PLC
- ❖ Automation Concept and basic design
- ❖ Programmable Logic Controllers basic's
- ❖ Software / Hardware Introduction
- ❖ Programming of PLC using Languages(LD, FBD, IL,etc.)
- ❖ Programming with Digital & Analog PLC Communication
- ❖ Developing the PLC programming from Control Narratives
- ❖ Creating & Editing Ladder Logic Program
- ❖ Developing industry oriented application programs using plc Programming Software
- ❖ Interfacing PLC with various field input/output devices
- ❖ PLC Fault Finding, Trouble Shooting
- ❖ Forcing I/O's
- ❖ Detailed sequence of wiring
- ❖ PLC Control Panel Wiring
- ❖ Interfacing with Relay logic
- ❖ Hands on Experience from Real time application
- ❖ Detailed Functions blocks and Wiring concept of Digital & Analog I/O modules
- ❖ Fundamental of Basic Process Control
- ❖ Implementation of Control Narratives
- ❖ Transmitters / Transducers / mA Sources connect with PLC
- ❖ Overview of Flow, Pressure, Level, Temperature
- ❖ Real Life Control Components Identification and Conventional Electrical Wiring through Various Applications.
- ❖ Use of PLC Programming software's through few Basic Applications
- ❖ SCADA Designing.
- ❖ Introduction on SCADA Software's.
- ❖ Basic & Advanced level SCADA Programming & DESIGN
- ❖ Digital SCADA Design & Communication To PLC.
- ❖ Anlog SCADA Design & Communication To Analog PLC.
- ❖ A Small Project of Automation with PLC and SCADA
- ❖ SCADA Communication To HMI.
- ❖ HMI Communication.
- ❖ Application of AC Drive along with a Project.
- ❖ Communicating AC Drives with PLC.
- ❖ Profi Net & Profi Bus Communication

- ❖ Mod Bus Protocal & communication with various Componets.
- ❖ Designing of Electrical Drawing.
- ❖ Control Panel using E Auto CAD.
- ❖ A Project of Automation with PLC and SCADA.
- ❖ Real Life Control Components Identification.
- ❖ Conventional Electrical Wiring through Various Applications.
- ❖ IMCC, Field Bus Protocol & Field Instruments.

Transmitters

Overview of Control valve and ON/OFF valves
Industrial / Project Documents:

- ❖ P&ID Diagram (P&ID)I/O List
- ❖ Cause & Effect diagram (C&E)
- ❖ Control Narrative
- ❖ Single Line diagram
- ❖ Function Design specifications (FDS)

Available PLC for Training:

1. **Siemens PLC (S7-300, S7-400 & S7-1200,1500)**
2. **Allen Bradley PLC (Micro Logix 1400 & Studio 5000)**
3. **Schneider PLC**
4. **ABB PLC (PM564,PM554)**
5. **Mitsubishi PLC (FX3u,FX5u)**
6. **Delta PLC**

PLC Training

The basic architecture of a PLC is important to understand. It is crucial to know about the basic PLC hardware components that are inside PLC, because it will make your understanding of the PLC much easier. The hardware components are the physical building blocks of the PLC.

AMIATC is Specialized in PLC Training in Bhubaneswar, PLC, SCADA, DCS, HMI,E- CAD,Drives Industrial Automation, Control & Safety System in oil and gas industry.

Training Duration: 90 DAYS All our Trainer's are Industrial experienced engineers and our **PLC** Training will be based on our executed projects in the past.

Course Provider: AMIATC

- **Individual Care with SIEMENS,A B with SCHNEIDER(zelio).**
  Duration 220 hr, 3 Months
  For Three Brands Of PLC only.

  # Schneider PLC Is Compulsory in training SYSTEMS

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