



Industrial Control & Automation

Duration: 3 Months | QP Code: Q5605 (IASC), L4

Module 1: Introduction To Process Instruments

96 hrs

This month introduces the course's emphasis on the relationship between the teacher and the curriculum. The sessions this month deal with two topics. These topics demonstrate the knowledge of commonly used process measurement devices, control methods and strategies, and the proper selection, identification, design, installation, and operation of instrumentation.

Topics Covered:

- Application of Process Instruments
- Field Device Communication Protocols
- Process Device Manager (PDM)
- Software - PLC and DCS
- Field devices

Module 2: Inter Connection

96 hrs

This month introduces the course's emphasis on software SIMATIC MANAGER, industrial networking, communication and Ethernet, Field instruments connectivity through Profibus, HART.

Topics Covered:

- Interface - Process Device Manager Software
- Field Device Coupler
- Profibus PA
- HART

Module 3: Simatic Pcs 7 Basics

264 hrs

This month introduces the course's emphasis on program of DCS using basic instructions programming and understand the architecture of DCS.

Topics Covered:

- Working with SIMATIC Manager in PCS 7 way
- Introduction to standard architecture of PCS 7
- Introduction to Automation System Hardware
- Creating the project and Configuring Hardware's (AS & OS)
- Working with Plant Hierarchy