Course Details

SIEMENS SIMATIC PCS7 System Course ST-PCS7SYS (5 days)

HRDF CLAIMABLE
*Subject to Approval

Requirements
In this course you will learn how to implement the diversity of engineering possibilities in a structured and efficient way with SIMATIC PCS 7 process control system. By doing exercises on original SIMATIC PCS 7 training units, you will implement software for the process automation of a plant right up to the HMI level. Features of SIMATIC PCS 7 such as integration of all subsystems, plant-oriented engineering, data management and project management are supplemented by advanced functions that enable efficient and cost-effective engineering.

Objectives
The training is designed for people with SIMATIC PCS 7 knowledge, who like to get information about engineering options in the SIMATIC PCS 7 version 7/ 8.

Utilize the benefits of Totally Integrated Automation (TIA) for yourself and learn how to get an integrated view of your plant! Because of this integration you will be able to diagnose faults quickly and correct them with safely. In addition, projects can be created in advance in such a way that you can work with multiple application. This enables time-optimized and cost-effective engineering.

Topics
After attending the course, you can do the following:

- Understand PCS7 hardware & software
- Realise a typical project
- Program using STEP7 editors like CFC charts
- Understand and use SFC
- HMI functionality
- Understand the concept of multiproject
- S7 Diagnostic Aids & New OS features
- PCS 7 and the Operating System Windows 7
- Review of PC and hardware innovations
- Process Historian / Information Server
- Asset Management and PDM
- New features of the Advanced Process Library
- New features of the Engineering System

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Course Certificate
Siemens certificate will be awarded after the training.

Contact Information
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Daywise Schedule

Day 1

1. System Overview
   - What Is Process Control?
   - Seamless Integration
   - Integrated Process Control
   - Configuring with Function Block
   - Top-Down Design Methodology
2. Configuration Overview
   - PCS Hardware
   - Solution Principle (AS)
   - Project Environment
   - Our Plant (Factory 2)
3. Project Structure
   - Project Environment
   - Our Plant (Factory 2)
   - Creating a Multiproject (MP)
   - Creating Projects in the MP
   - Setting the Language for Display
   - Assigning the Plant Hierarchy
   - PH Settings
   - Updating the Plant Hierarchy
   - Plant View - Settings/Properties
   - HID Generation
   - OS Hierarchy (AS/OS)
   - Names in the Component View

Day 2

4. System Configuration
   - System Configuration for PCS 7
   - Configurable Components
   - Using HW Configuration for the AS
   - Concept/Symbolic Channel Names)
   - Compiling and Downloading
   - Setting the PG/PC Interface
   - Downloading in STOP Mode
   - Configuring the PC Station (Overview)
   - Calling Up NetPro
   - Cross-Project View
   - S7 Connections

Day 3

5. CFC
   - Integrating Libraries
   - Block Libraries
   - Integrating Blocks
   - Organization Blocks
   - CFC Basics & Insert Block
   - Compiling and Downloading
   - Debugging a Program
   - Block Diagram of a Valve Control
   - Block Diagram of a Motor Control
   - MOTOR Block
   - CTRL_PID (with LINK)
   - Driver Concept (from V5)
   - Message Configuration

Day 4

6. SFC
   - Overview
   - Sequence Structures
   - Action and Transition
   - Open SFC (in Test Mode)
   - SFC Operating Mode Logic
   - Run Behavior of an SFC
   - External View of SFC
7. Operator Control and Monitoring
   - System Configurations
   - WinCC Multi-Station Systems
   - Monitoring for SIMATIC PCS 7
   - OS systems with multiple servers
   - Central Engineering
   - SIMATIC PCS 7 - Operator Station
   - WinCC (PCS 7 - Basic Options)
   - WinCC Explorer: Overview
   - Tag Management
   - Editors & Compile OS

Day 5

8. Multiprojects
   - Creating Multiprojects
   - Restoring an individual project
   - Description of task
   - Preparation
   - Distributed working
   - Test AS program with SIM
   - Updating the Networks
   - Insert picture in to PH
   - Test OS program with SIM

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Time-wise Schedule

Day	Time	Topics
Day – 1	09:00 Hrs – 09:20 Hrs 09:20 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Operating Systems Practical on the above Configuration Overview Requirements and functions Practical on the above
Day – 2	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Project setup Station and network configuration Connection to the process Practical on the above
Day – 3	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Basics control functions Basics operating and monitoring Basics automatic Mode Control Customizing the OS
Day – 4	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Archiving System Functions and Operating modes Mass data engineering Configuration
Day – 5	09:00 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 16:00 Hrs	Mutilprojects Practical on the above Feedback & Valedictory session

Break Timings:

10:00 Hrs – 10:15 Hrs Morning Tea Break
12:00 Hrs – 13:00 Hrs Lunch Break
15:00 Hrs – 15:15 Hrs Afternoon Tea Break
17:00 Hrs – 17:15 Hrs Recess & End of Day