SIEMENS

PCS7 System Engineering 1 (SCT-PCSYSE1D)

Global Reference

SIMATIC PCS 7 System Course (ST-PCS7SYS)

Type

Face-to-Face Learning

Duration and Continuing Education Units (CEU)

26 Hours over 4 Days
2.6 CEUs

Target Group

- Engineer

Short Description

This course is designed for controls engineers who are responsible for project design, development, and commissioning a PCS7 system. The goals of this course are to aggressively help the student learn a basic system configuration and project design using standard system tools and libraries. This course begins with the definition of a typical project and planning the system architecture. The students will then actively build, test, and debug a simple PCS7 process system, exploring the Automation Station, Engineering Station, and Operator Station engineering environments. Hands-on lab exercises are used to build experience with system engineering, process optimization, and common troubleshooting.

Objectives

- Define the requirements and components of a PCS7 system solution
- Configure a Multi project complete with Component and Plant Hierarchy
- Configure basic Continuous Function Charts using standard system tools and libraries
- Configure basic Sequential Function Charts using standard system tools and libraries
- Configure a basic Operator Station configuration using standard system tools and tag interfacing
- Configure and test basic network communications including, Ethernet and PROFIBUS DP
- Perform a basic system check out using standard system tools and diagnostics
- Use the Help, Documentation and On-line tools
- Perform basic system administration and project management functions

Content

- Introduction
- PCS 7 Documentation and Online Support
- Requirements and Functional Process Description
- System Design and Component Specification
- Project setup
- Station and network configuration
- Connection to the process
- Basics control functions
- Basics Operating and Monitoring

- Basics Automatic Mode Control

Language

English