SIEMENS

PCS7 System Service 1 (SCT-PCSVCS1B)

Global Reference

SIMATIC PCS 7 Service 1 (ST-PCS7SR1)

Type

Face-to-Face Learning

Duration and Continuing Education Units (CEU)

26 Hours over 4 Days
2.6 CEUs

Target Group

- Maintenance
- Engineer
- Operator

Short Description

This course is designed for individuals receiving an engineered PCS7 system and responsible for system sustaining and service. The goals of this course are to help the student learn to efficiently use, optimize, and troubleshoot their process through the PCS7 system. This course begins with the students learning the key system architecture and operational functions. The course then builds a solid foundation of system fault analysis of software configuration, important basic project settings including physical components, software configuration, basic module parameterization, and system networks. Students will then learn how to analyze errors/faults using the system tools and determine the cause and corrective action of these errors/faults. This hands-on course builds experience with system use, optimization, common troubleshooting, and basic service engineering tasks.

Objectives

- Navigate the various types of PCS7 documentation
- Navigate a PCS 7 OS runtime station including the built-in diagnostics screens
- Use the system architecture to aid in diagnostics
- Identify which part of the database is responsible for each part of the configuration
- Navigate the PCS 7 Multi-project structure for maintenance, diagnostics, and modification of the system
- Identify different causes of errors/faults
- Analyze problems efficiently
- View the messaging system in various ways to use in troubleshooting functions
- View the Asset Diagnostics system in various ways to use in troubleshooting functions
- Perform diagnostic maintenance of CFC and SFC charts using various PCS 7 tools
- Analyze AS, OS, PC, and communication diagnostics
- Configure and use the SDT (SIMATIC Diagnose Tool)
- Replace faulty modules/devices

Content

- Introduction to training

- SIMATIC PCS 7 Documentation and Online Support
- Requirements and Functional Process Description
- System Design and Component Specification
- Project-specific settings
- Project-specific architecture and Configuration
- Methods for problem analysis
- Diagnostics options with PCS 7
- Procedure for eliminating problems

Mandatory Prerequisites

PCS7 System Engineering 1: SCT-PCSYSE1D

Language

English