

## PCS7 System Service 2 (SCT-PCSVCS2B)

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### Global Reference

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SIMATIC PCS 7 Service 1 (ST-PCS7SR1)

### Type

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Face-to-Face Learning

### Duration and Continuing Education Units (CEU)

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26 Hours over 4 Days  
2.6 CEUs

### Target Group

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- Engineer
- Maintenance
- Operator

### Short Description

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Plant Engineers, Technicians and Users responsible for operating, optimizing and troubleshooting a PCS7 system should attend this course.

This course is designed for individuals receiving an engineered PCS7 system and are responsible for system sustaining, service and basic modification. The goals of this course are to help the student learn to efficiently use, optimize and troubleshoot their process as well as replacements and additions to it. 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 and repair/replace faulty components. Students will also learn how to perform basic expansions and modifications to their system. This hands-on course builds experience with system use, optimization, common troubleshooting and basic service engineering tasks.

### Objectives

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- 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
- Enable/repair OS Simulation for testing
- Enable/repair the Asset Diagnostics system for use in troubleshooting functions
- Enable/repair SIMATIC PDM Web Server functionality
- Enable/repair SIMATIC Logon
- Enable/repair OPC Server functionality

- Force block values in run-time
- Use ApDiag.exe
- Use SIMATIC Diagnostics Tool (SDT)
- Implement alarm management techniques
- Use the built-in PID tuner
- Modify basic configurations of CFC and SFC charts
- Add/modify basic DP, PA and HART field devices
- Expand Terminalbus / Plantbus / Profinet networks
- Install Siemens Industrial PC's into your proc

## Content

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- Introduction to training
- SIMATIC PCS 7 Documentation and Online Support
- Requirements and Functional Process Description
- Method for problem analysis
- Diagnostic possibilities with PCS 7
- Plant Optimization
- Plant expansion
- Adding an OS station

## Mandatory Prerequisites

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[PCS7 System Service 1: SCT-PCSVCS1B](#)

OR

[PCS7 System Engineering 1: SCT-PCSYSE1D](#)

## Language

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English

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