

## Simatic PCS 7 system grund standard (ST-PCS7SYS)

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### Short Description

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This training provides a fundamental overview of the Simatic PCS 7 process system, with plenty of time for exercises and practical examples. Participants learn basic programming for Simatic PCS 7. Through exercises and examples, they learn how to automate a process plant. With all parts of the Simatic system, from decentralized peripherals with Profibus to PCS 7's automation system, AS, PCS 7's special function libraries, PCS 7's HMI system, OS, for monitoring, operator stations via Ethernet, and up to coordinating systems.

### Objectives

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As part of this booking, you will receive free trial access to our digital training platform SITRAIN access. You get access to more than 200 web-based courses 7 days before the start of the course. The test period ends automatically 7 days after the end of the course. [Mer information om SITRAIN access](#)

In SITRAIN access, you will find web-based training for topics such as basic knowledge of process control, PROFIBUS in process automation, PROFINET, or data communication with Industrial Ethernet. Additionally, there are further subjects like an overview of digitalization in process automation or an introduction to SIMIT and Virtual Controller.

We recommend that you complete the following training in preparation for the classroom training: [Process Control Technology for Beginners](#)

### Target Group

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Project manager  
Configuring engineers  
Programmers  
Commissioning engineers

### Content

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System design and component specification  
Creating a multiproject  
Configuration of stations and networks  
Creation the plant hierarchy  
Basics of CFC and blocks  
Connection to the process  
Basic automation with the APL  
Spreadsheet-based engineering with the process object view  
Basic functions for operator control and monitoring  
Implementation of manual and automatic operation  
Sequential controls with SFC  
Monitoring and control of the sequential control systems  
Easy to customize the operating station (OS)  
Basic of the message system  
Project planning of group displays and status displays  
The archiving system  
Interlock functions and operating modes  
Bulk data engineering  
Final configuration steps  
Syntax rules for SIMATIC PCS 7 configuration  
SIMATIC PCS 7 documentation and online support

### Prerequisites

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This training is for beginners in process automation. You do not need to have experience with other DCS systems. Knowledge of process automation is an advantage, as well as computer skills, especially in the Microsoft Windows environment.

### Note

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The course materials are in English. Practical exercises are carried out on Simatic S7-400 and the current version of Simatic PCS 7. For those primarily responsible for maintaining and troubleshooting completed installations, the course Simatic PCS 7 service (ST-PCS7SR1) (4.5 days) is recommended.

### Type

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Face-to-face training

**Duration**

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9 days

**Language**

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