

SIMATIC PCS 7 System Course

OEM: Siemens • Code: ST-PCS7SYS

COURSE DESCRIPTION

In this online course in a virtual classroom you will learn how to implement the diversity of engineering possibilities with SIMATIC PCS 7 process control system in a structured and efficient way. You configure the entire control system from the field level through the automation system to the operating and monitoring system.

AUDIENCE PROFILE

- Project manager, Configuring engineers
- Programmers
- Commissioning engineers
- Technologists

PREREQUISITES

- Basic knowledge of electrical engineering, open-loop and closed-loop control as well as process control technology.
- You can use the available ["Online Assessment Test"](#) to ensure that the selected course matches your area of expertise.
- Technical requirements
- For the online training is a virtual training environment required, which is provided by us.
- We recommend that you consider the technical requirements for the best possible use.
- [Information on the technical requirements with VLab](#)

Note

- After attending this course, you can be certified as a "Siemens SIMATIC PCS 7 - Basic Engineer".
- Book your participation here => [Siemens SIMATIC PCS 7 - Basic Engineer](#)
- This theoretical proof of performance tests your SIMATIC PCS 7 Engineering basic knowledge.
- After passing the exam, you will receive a certificate.
- Included in the course price: Free access to the digital learning platform [SITRAIN access](#) – starting one week before the start of the course until two weeks after the end of the course.
- With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

COURSE OBJECTIVES

By the end of this course, participants will be able to:

- By doing exercises in a virtual training environment, 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 with SIMATIC PCS 7.
- 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 safety. 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. The perfect interaction of all components enables you to consistently produce more of the highest quality and to establish new products on the market much more quickly.
- After attending the course, you can do the following:
- Create a proper PCS 7 multiproject and configure the hardware of AS and PC stations.
- Create user programs compliant to PCS 7 standards using the most important tools like CFC, SFC and graphical tools of the PCS 7 engineering toolset.
- Bulk engineering with the Control Module Types and their instances via the Technological List Editor and Plant Generator.

COURSE OUTLINE

Module 1: Content

- 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