SIEMENS

Online Training - SIMATIC PCS 7 System Course (ST-PCS7SYS)

Short 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.

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.

Because of this integration you will be able to diagnose faults quickly and correct them with safely. 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.

Objectives

After attending the course you will be able to...
- understand the system architecture of PCS 7 and plan a plant accordingly.
- create a PCS 7 multi-project correctly and configure the hardware of automation systems and operator stations.
- set up stations and networks for a compliant communication.
- map a plant according to the plant hierarchy.
- operate and set up the engineering editor (CFC) and understand the programming of the systems.
- develop an understanding of your own libraries and use the PCS 7 libraries to your advantage.
- know the basic functions for operation and monitoring.
- develop and operate of sequential function controls (SFCs) in PCS 7.
- establish, configure and operate of operator stations and the handling of the associated alarm system
- use the basics of archiving projects.
- know the interlocking functions and operating modes in process control technology.
- use the engineering of mass data in PCS 7.

Target Group

- Configuring engineers
- Programmers
- Commissioning engineers
- Technologists

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

Included in the course price:
This course includes a 4-week Learning Membership for our digital learning platform SITRAIN access. 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. As an introduction to the digital learning platform, we recommend the following learning path:

Process Control Technology for Beginners

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all of the more than 480 web-based trainings available.

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.

Type

Online-Training

Duration

10 days

Language

en

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