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SIMATIC PCS neo System Training for Beginners (NEO-BASIC)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

5 Day
3.3 CEUs

Target Group

- Commissioning Engineers
- Engineers
- Programmers

Short Description

In this face-to-face course you will learn how to implement the diversity of engineering possibilities with new process control system SIMATIC PCS neo in a structured and efficient way. With the help of descriptive course documentation you will become familiar with the system concept and the general system structure of SIMATIC PCS neo.

Objectives

- Configure the automation hardware including the distributed I/O with digital and analog signals in PCS neo and test the function in a real training device.
- Configure the automation hardware including the distributed I/O with digital and analog signals in PCS neo and test the function with a real training device or in a virtual environment.
- Recognize the functionality for processing digital and analog signals in PCS neo.
- Create, operate and test a simple yet technically correct and functional SIMATIC PCS neo project.

Content

- System overview, new concepts, installation, certificates.
- Hardware engineering with AS CPU 410-5H, distributed I/O and PROFINET, engineering station.
- The first process object: Engineering in CFC with blocks, display in the Monitoring & Control view with block icons and faceplates, downloading the program.
- Basic automation: Equipment engineering with equipment hierarchy, process objects of the APL, including spreadsheet engineering with queries and Excel.
- Use of the virtual controller and SIMIT for integrated testing and virtual commissioning.
- Use of Control Module templates: Templates and template variants

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- Configuration of sequencers: Elements, interconnections for basic automation
- Visualization in Monitoring & Control: Engineering of process displays
- User/rights management: User management, access rights for Engineering and Monitoring & Control views
- Multiuser engineering with session model: Synchronizing changes, locking objects and areas

Note

Soft prerequisite: Basic knowledge of electrical engineering, open-loop and closed-loop control, as well as process control technology.

Language

English

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