

## SIMATIC PCS neo Upgrade Training for PCS 7 Engineers (NEO-SYSUP)

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### Objectives

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With the help of descriptive course documentation and in combination with accompanying e-learning offers, you will become familiar with the system concept and the general system structure of SIMATIC PCS neo. You will configure the automation hardware including the distributed I/O with digital and analog signals in SIMATIC PCS neo and test the function in a real training device. In so doing, you will become familiar with the functionality for processing digital and analog signals in PCS neo.

In addition, you will configure an imaginary model system step-by-step and commission it virtually. You will learn how to handle the PCS neo engineering tools including SIMIT and the virtual controller on the basis of examples and practical exercises.

The course content is designed to familiarize you with flexible workflow options. After completing the training, you will be able to create, operate and test a simple yet technically correct and functional SIMATIC PCS neo project.

### Target Group

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Project managers, project team members  
Technologists  
Configuration engineers, programmers  
Commissioning engineers

### Content

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Basics: 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

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

Operation & Maintenance: PO browser, alarm shelving, integrated plant device management with DIM and PDM.

### Prerequisites

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Knowledge of SIMATIC PCS 7 as presented in the current version of the SIMATIC PCS 7 system course.

### Note

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Course documentation: English

Trainer: English

### Type

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Face-to-face training

### Duration

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4 days

### Language

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en