

## SIMATIC PCS 7 Integrated Engineering and Simulation (ST-PCS7INS)

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### Short Description

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This course will give you an overview of the integrated engineering products and applications for planning, automating, and simulating process plants in the process industry.

### Objectives

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You will be introduced to the usage and interaction of the Siemens COMOS, SIMATIC PCS 7, and SIMIT Simulation Framework software products.

Using practical examples, you will learn how to exchange data from an existing COMOS project with SIMIT and with the SIMATIC PCS 7. In this way, we will show you how to sustainably participate in the market faster and with higher quality in the planning and implementation engineering phases of plant automation.

After attending the course, you will be able to:

- Select the right software products, interfaces, and licenses for your tasks.
- Perform the basic work steps for plant planning and automation of a process plant at a prepared workstation.
- Exchange engineering data from COMOS with SIMIT and the SIMATIC PCS 7 via the SIMIT interface.
- Perform initial simple tests on a digital twin in the process system to check the quality of your plant planning and your process automation at every stage.

### Target Group

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Decision makers, sales personnel  
Project managers, project workers  
Programmers, configuration engineers

### Content

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- Overview of plant and location structure of COMOS
- Overview of P&ID planning in COMOS
- Derivation of a simulation model and data exchange between COMOS and SIMIT
- Simulation testing in SIMIT
- Overview of engineering in PCS 7 and creation of the basic process automation structure in SIMATIC PCS 7
- Planning and configuring of automation functions in COMOS
- Data exchange between COMOS and SIMATIC PCS 7 and completion of the PCS 7 project
- Data exchange between COMOS and SIMIT as well as between SIMATIC PCS 7 and SIMIT
- Testing of the SIMATIC PCS 7 automation project and virtual commissioning of a digital twin of the process plant.
- Re-engineering in COMOS in case of changes to the automation

### Prerequisites

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- Basic knowledge of plant planning and process control engineering
- Practical experience in the process industry and process automation

### Type

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Face-to-face training

### Duration

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3 days

### Language

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