

## Simatic PCS 7 AS Engineering (ST-PCS7ASE)

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### Target Group

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Project manager, project staff, programmer, commissioning engineers, configuring engineers, service personnel and maintenance personnel

### Content

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#### System design

- Memory concept and system architecture

#### PCS 7 Project handling

- Multiproject engineering and Multiuser engineering
- Version Trail and Version Cross Manager
- Access protection and Block encryption
- License management

#### Mass data engineering using the Advanced Engineering System

- New type concept
- Edit mass data in AdvES, creation of new control modules in PCS 7
- Handling of optional blocks

#### Hardware configuration

- Integration of Profinet
- Integration of field devices
- Update of the Hardware catalog
- High-Precision Time Stamping

#### Efficient engineering

- Libraries in SIMATIC PCS 7 V8.0
- Extended User Authorization Concept
- Run sequence and behavior when maximum cycle time exceeded

#### Advanced alarm engineering

- Generating additional messages
- Message configuration
- Managing messages in SIMATIC Manager

#### SFC Advanced

- Operating State Logic and state changes in SFC
- Configuration of SFC-Types

#### Application of APC Library

- Characterizing Control Loops
- Overview of the APC tools in the PCS 7 Libraries and APC-Examples
- PID algorithm
- Control Performance Monitoring (CPM)
- Controller optimization using the PID Tuner

### Prerequisites

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Attendance of training course ST-PCS7SYS recommended Basic knowledge of process control engineering Practical experience in SIMATIC PCS 7 project engineering. Basic knowledge of APL, as provided in the System course or in the APL-Workshop You can use the available online entry test to ensure that the selected course matches your area of expertise.

### Type

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Face-to-face training

### Duration

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4.5 days

### Language

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en