SIEMENS

PCS 7 AS-Engineering (ST-PCS7AS.)

Short Description

PCS 7 AS-Engineering

Objectives

• As SIMATIC PCS 7 Engineer you will learn in this course the potential of the SIMATIC PCS 7-process control software with focus on AS-Engineering.

 As important topics for advanced SIMATIC PCS 7 Engineers the integration of Profinet in SIMATIC PCS 7, the Advanced Process Library (APL), the configuration of SFC-Types, as well as Type-Instance conceptions supporting an efficient AS-Engineering are in the center of the course.

• By practical exercises at training equipment you will put your newly acquired theoretical knowledge into the practice. Through this you increase your learning success.

• On completion of the course, you are able to engineer a process automation optimally and efficiently.

Target Group

- Project manager, project staff
- Technologists
- configuring engineers, programmer
- Commissioning engineers

Content

- PCS 7 project handling
- o Multiproject engineering and Multiuser engineering
- o Upgrade of block libraries with CPU 410-5H
- o Comparing project versions with the Version Cross Manager, Versioning using Version Trail
- o Licenses and current license model with CPU 410-5H
- System design Planning and specifying hardware components
- o Memory and cycle time resources of the CPU
- o Important CPU settings
- o Behavior when maximum cycle time exceeded
- o Topology comparison of Profibus vs. Profinet in SIMATIC PCS 7
- Type-Instance conceptions in SIMATIC PCS 7
- o Central bulk engineering with the Import/Export Assistant
- o Structure of the import file
- o Creating process tag types and importing process tags,
- o Modifying process tag types, Updating and exporting process tags
- Introduction of control module types
- o Comparison of control module types vs. Process tag types, manually editing,
- o Updating control modules and variants / optional blocks
- Technologic engineering with APL
- o Basic APL functions
- o Configuration of dosing functions
- Advanced Process Control with APL
- o Introduction of APC functions
- o Control performance monitoring and PID tuning
- · Sequential control with SFC types
- o Basics, Operating State Logic
- o Configuration of SFC types
- o Characteristics as interface of SFC types, Changing control strategy and setpoints

Prerequisites

- Attendance of training course ST-PCS7SYS
- · 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

Note

Equipment and Software requirement:

- PCS 7 V9 SP1 (Licensed)
- Microsoft Teams
- PLC SIM activated
- FAST internet line
- PC with a web camera and microphone
- The training files loaded

Online-Training		
Duration		
5 days		
Language	 	
en		

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