

Introduction of the technologic libraries in SIMATIC PCS 7 (ST-PCS7LIB)

Objectives

As a user of SIMATIC PCS 7, you will learn how to use the current versions of Advanced Process Library (APL) and Industry Library (IL) and learn about the advantages of these technology libraries as you do so.

In numerous practical exercises, you will learn how to solve basic automation tasks using the technology libraries.

After attending the course, you will be able to:

- Configure basic technology functions with the Advanced Process Library.
- Integrate frequency-controlled drives into a PCS 7 project with a standard APL block.
- Configure dosing functions with the APL.
- Optimize PID controllers configured with the APL.
- Configure selected technology functions with the PCS 7 Industry Library.
- Integrate graphical objects of the APG (Advanced Process Graphics) Library into your project.

Target Group

Project managers, project workers

Technologists

Configuration engineers, programmers

Commissioning engineers

Content

Motivation and positioning of the Advanced Process Library

General engineering functions of the APL

- Operating modes in the APL
- Interlock functions in the APL
- APL templates

Upgrading of technology libraries

- Interaction of APL and basic library
- Introduction of AS-specific structure types

Profiles and applications of selected APL blocks

- Configuration of dosing functions with the APL
- Integrating the G120 with Profinet and the APL block

Introduction to Industry Library

- Introduction and positioning, blocks, components
- Integration S7-300, multiple control room concept
- Profiles and applications of selected IL blocks

Advanced Process Control with the APL

- Characterization of controlled systems
- Overview of APC tools in the PCS 7 APL
- The PID algorithm
- Control Performance Monitoring (CPM)
- Controller tuning using the PID tuner

Introduction to Advanced Process Graphics

- Advanced Process Graphics for user-centered process visualization
- Basic configuration
- Overview of the APG objects

Prerequisites

- Knowledge of SIMATIC PCS 7 V7.0 or higher, as communicated in the course ST-PCS7SYS, V7.0 and higher.
- Project experience with predecessor versions of SIMATIC PCS 7 V7.1.

Note

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Type

Face-to-face training

Duration

3 days

Language
