

TIA Portal Programming 3 (SCT-PTTIAP3A)

Global Reference

SIMATIC Programming 3 in the TIA Portal (TIA-PROEXP)

Type

Face-to-Face Learning

Duration and Continuing Education Units (CEU)

30 Hours over 4.5 Days 3 CEUs

Target Group

Engineer

Short Description

This course is the third in a three-part series which increases advanced skills with Siemens SIMATIC TIA Portal. Students will learn to leverage the power of TIA Portal software with advanced structured programming techniques. A systems approach to efficiently programming the S7-1500, S7-1200, S7-300, and S7-400 PLC is covered. Students will expand their knowledge regarding the reusability of STEP 7 blocks and their storage in user libraries while gaining an introduction to programming languages statement list (STL), Structured Control Language (SCL) and S7-GRAPH.

Objectives

- Apply knowledge of the advantages of optimally created blocks and be able to program them
- Efficiently implement the concepts of multiple Instances
- Declare variables of complex data types
- Commission a given SCL block
- Configure alarms according to the Alarm Number Method
- Commission a PID controller with automatic optimization

Content

- Training Units and Addressing
- Hardware and Software Commissioning
- Reusable Blocks
- Complex Data and their Addressing
- Structured Control Language SCL
- Recipes and Alarm Number Method
- Introduction to Industrial Communication
- Technology Objects

Mandatory Prerequisites

TIA Portal Programming 2 - Virtual: SCT-PTOILTIAP2A

Note

The core issues of efficient use of CPU resources, establishing communications, passing information, and managing integrated diagnostics are included. This course includes classroom instruction, demonstration, and considerable handson lab work.

Language

English

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