SIEMENS

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)

29 Hours over 4.5 Days
2.9 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: SCT-PTTIAP2A

OR

[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 hands-on lab work.

Language

English