SIEMENS

TIA Portal Programming with SCL - Virtual (SCT-PTOILSCLP3A)

Global Reference

SIMATIC Programming 2 with SCL in the TIA Portal (TIA-SCL2)

Туре

Virtual Instructor-led Learning

Duration and Continuing Education Units (CEU)

10 Hours (Schedule varies) 1 CEUs

Target Group

- Maintenance
- Engineer

Short Description

This course provides an in-depth look at programming and program troubleshooting with a focus on the Structured Control Language (SCL) - a Pascal-like high-level text language for programming mathematical algorithms, data management, and organization tasks for Siemens automation systems. Students should have a solid working knowledge of TIA Portal and the basic diagnostics and editor tools. This is a firsthand course filled with programming exercises in SCL. Students will use advanced software tools of TIA Portal, including PLCSIM, to complete system integration programming, troubleshooting, and functional testing of applications.

Objectives

- Efficiently use the TIA Portal program editor tools
- Use the TIA Portal program monitor, diagnostics and troubleshooting tools
- Build and modify SCL programs
- Package an SCL program into a custom library block and use within a TIA Portal project
- Explore the SCL syntax requirements and the system debug functions
- Use PLCSIM software to simulate PLC hardware

Content

- The TIA Portal
- SCL Overview
- SCL Program Structure
- SCL Syntax
- SCL Data Types
- SCL Declarations
- SCL Mathematical and Logical Operations
- SCL Control Instructions

Mandatory Prerequisites

TIA Portal Programming 1: SCT-PTTIAP1A

OR

TIA Portal Programming 1 - Virtual: SCT-PTOILTIAP1A

Note

This is a live, instructor-led online course delivered in 2-hour learning modules through an innovative web application. Access to fully functional TIA Portal software will be provided to the student through a cloud-based application. Students are encouraged to complete assigned lab exercises during and after each session to reinforce the learning modules throughout the week. A professional Siemens instructor will also be available to answer student questions outside of scheduled class times.

Language

English

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