

TIA Portal Safety Engineering (SCT-PTSFTE1A)

Global Reference

Programming Fail-Safe Controllers with STEP 7 Safety in TIA Portal (TIA-SAFETY)

Type

Face-to-Face Learning

Duration and Continuing Education Units (CEU)

3 Days
2 CEUs

Target Group

- Maintenance
- Engineer

Short Description

This course introduces the student to a Siemens Distributed Safety PLC application. Participants receive knowledge on applying the system per relevant standards, Failsafe Hardware Module details and parameterization, Safety Program structure and implementation, Safety Communications, System Diagnostics and introduction to Drive Safety .The course format is a combination of instruction and hands-on exercises. A realistic model is used for demonstrations and student exercises. Exercises allow students to practice tasks such as configuration, programming, and code debugging.

Objectives

- Locate and understand the applicability of the detailed documentation and development resources
- Select and configure the Failsafe Hardware components and understand their application restrictions
- Properly implement a Safety program in the PLC
- Document, test, and troubleshoot the system

Content

- Introduction to Distributed Safety
- Standards discussion
- ET 200SP distributed I/O system
- Hardware Configuration
- Safety Advanced: Programming
- Fail-safe Communication
- F-system Response Times

Mandatory Prerequisites

[TIA Portal Programming 1: SCT-PTTIAP1A](#)

OR

[TIA Portal Service 1: SCT-PTTIS1A](#)

OR

[TIA Portal Programming 1 - Virtual: SCT-PTOILTIAP1A](#)

OR

[TIA Portal Service 1 - Virtual: SCT-PTOILTIAS1A](#)

OR

[AB to S7 with TIA Portal: SCT-PTABSP1A](#)

OR

[AB to S7 with TIA Portal - Virtual: SCT-PTOILABSP1A](#)

Language

English

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