

TIA Portal Safety Engineering - Virtual (TIA-SAFETY) (SCT-PTOILSFTE1A)

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/PROFIsafe settings, operation, Hardware Module details and parameterization, Safety Program structure and implementation, Safety Communications, System Diagnostics, and an introduction to Drive Safety.

Objectives

- Locate and understand the applicability of the detailed documentation and development resources
- Load a starting project and configure the Failsafe Hardware components as well as understand their application restrictions
- Properly implement a Safety program in the PLC
- Document, test, and troubleshoot the system using PLC
- Sim Advanced and a virtual Safety Trainer

Target Group

- Maintenance
- Engineer

Content

- Standards discussion
- Product Overview
- Functional Safety Principles
- ET 200SP distributed I/O system
- Safety related Hardware Configuration
- Safety Advanced: Channel Configuration
- Safety Advanced: Programming

Prerequisites

- Basic knowledge of SIMATIC S7 according to the course [TIA-PRO1](#) or [TIA-SERV1](#).
- So you may assure that the course of your choice fits to your competences an [online entrance test](#) is available for you.

Note

The course format is a combination of instruction and hands-on exercises. A realistic model is used for demonstrations and student exercises. Hardware is simulated using PLCSIM Advanced and a virtual Safety Trainer. Exercises allow students to practice tasks such as configuration, programming, and code debugging.

Type

Online-Training

Duration

3 days

Language

en

Fee

3,200 USD