

Online training – Programming fail-safe controllers with STEP 7 Safety in TIA Portal (TIA-SAFETY)

Short Description

In this online training, you will learn about configuring, programming, commissioning, diagnosing and troubleshooting fail-safe SIMATIC controllers and fail-safe, distributed ET 200 systems.

In order to provide you with the best possible support and training in your personal learning environment (own office/home office), we have implemented selected courses as digital online trainings for you. We provide you with live theory lectures from our experts, which convey the course content described in the learning objectives in a practical and comprehensive manner, utilizing our virtual exercise environment for practical exercises. In our virtual classroom, our expert is also available to you at any time during your individual practical exercises for in-depth questions and technical discussions.

Objectives

After attending the course, you can do the following:

- Commissioning fail-safe SIMATIC controllers
- Programming of safety-related programs in the languages FBD and LAD
- Diagnosing and troubleshooting of safety-related systems and programs

You will deepen your theoretical knowledge through numerous practice-oriented exercises in our virtual exercise environment (VEE).

Target Group

- Programmers
- Commissioning engineers
- Engineering personnel

Content

- Overview and guidelines
- Product overview and operating principle Safety Integrated
- Configuring of the fail-safe components with STEP 7 Safety in TIA Portal
- Programming of a safety program
- Programming tips according to [Programming Guideline Safety for SIMATIC S7-1200/1500](#)
- Diagnostics facilities (CPU diagnostics, I/O diagnostics, advanced diagnostics)
- Deeper understanding of contents through practical exercises in our virtual exercise environment (VEE)

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:

[Link to online entrance test](#)

Technical requirements

For this training you will need a computer with Windows 7 or better Windows 10 and a stable internet connection. We recommend a data transfer rate of 50 Mbit/s. You will require Google Chrome as Internet browser to access a virtual whiteboard and to use our TIA cloud solution. The platform for this training is Microsoft Teams. We recommend installing the Microsoft Teams app for the best possible use of all functions.

Note

In this course you will work with the SIMATIC STEP 7 Safety software in TIA Portal.

Type

Online-Training

Duration

3 days

Language

en

Fee

Price includes 10 % introductory discount until 30.09.2020