

Safety in TIA PORTAL via Step 7 Safety Advanced (TIA-SAFETY)

Short Description

In this course, you will learn about configuring, programming, commissioning, diagnosing and troubleshooting fail-safe SIMATIC controllers and fail-safe, distributed ET 200 systems. In practical exercises you will put your theoretical knowledge to use on a training system with the STEP 7 Safety software in TIA Portal.

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

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](#)
Fail-safe communication (CPU-CPU communication with couplers and I device)
Diagnostics facilities (CPU diagnostics, I/O diagnostics, advanced diagnostics)

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

In this course you will work with the SIMATIC STEP 7 Safety software in TIA Portal.
Additionally you have the opportunity to take an examination and receive certification on a separate date. You'll find further information and the registration at [CPT-TIASAF](#).

As a part of your course booking you will receive free trial access to the digital learning platform: [=> Access to SITRAIN access](#)
You have access to over 200 web-based training courses 7 days before the start of the course. The test period ends automatically 14 days after the end of the course.

Here you will find web-based trainings on [TIA Portal Safety Integrated](#) as well as other topics such as SIMATIC Automation Systems and many more. With the Learning Membership, you can deepen or repeat the content of this learning event as well as continue your education on other interesting topics.

Type

Face-to-face training

Duration

3 days

Language

de, en, fr, nl