

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 our virtual exercise environment you will put your theoretical knowledge to use 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

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

Combine your online course with web-based trainings on our digital learning platform for industry and thus increase your personal learning success in the face-to-face course. On SITRAIN access you will find further topics, for example, TIA Portal, PROFINET or data communication with Industrial Ethernet, digitization,

As part of your course booking, you will receive free test access for the digital learning platform:

[Click here for more information about SITRAIN access](#)

You have access to over 270 web-based training 7 days before the start of the course. The test period automatically ends 14 days after the end of the course.

As an introduction to the digital learning platform, we recommend the following learning path:

[TIA Safety Integrated Curriculum](#)

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)

Prerequisites

- Basic knowledge of SIMATIC S7 according to the course [TIA-PRO1](#) or [TIA-SERV1](#).
- [Technical requirements](#) > VLab

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](#).

Type

Online-Training

Duration

3 days

Language

en