

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

Kurzbeschreibung

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.

Ziele

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

Zielgruppe

- Programmers
- Commissioning engineers
- Engineering personnel

Inhalte

- 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)
- Deeper understanding of contents through practical exercises with a fail-safe SIMATIC S7-1500 controller

Teilnahmevoraussetzung

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](#)

Hinweise

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](#).

Typ

Präsenztraining

Dauer

3 Tage

Sprache

en