

Online-Training - SIMATIC PCS 7 Process Safety (ST-PCS7SAF)

Short Description

In this online training you will learn how to generate a PCS 7 conform and failsafe application with CFC and Safety Matrix.

Objectives

The theoretical parts of the training are backed up with practical exercises. These exercises are done with failsafe CPU 410-5H with failsafe signal modules connected via PROFIBUS and PROFIsafe. After the course you will be able to engineer safety functions and adjust safety relevant times.

Target Group

- Sales employees
- Project managers, project staff
- Programmer
- Commissioning engineers, configuration engineers

Content

- Functional safety
- Basics from IEC 61508 and IEC 61511
- LOPA (Layer of Protection Analysis) and Risk graph by means of a safety instrumented function
- Explanation of SIF (Safety Instrumented Function)
- System architecture and diagnostics in safety components (Hardware, Software, Communication)
- Overview about F-Hardware
- Parameter in HW-Configuration (safety mode, sensor evaluation, addressing, monitoring time, H-parameter, Wiring and Voting)
- Safety program (Acknowledgement, voting blocks, block types, Secure Write Command++, communication)
- Safety mechanisms (F-Shutdown, Partial Shutdown Groups, passivation, reintegration, block type)
- Safety Matrix
- Calculate and adjust F-times using S7ftime.xlsm (reaction-, monitoring times)

Prerequisites

- General basic knowledge of process automation
- Attendance of the system course <u>"ST-PCS7SYS"</u> is recommended
- Basic knowledge operation and monitoring with SIMATIC PCS 7 OS
- Good experience in AS configuration with SIMATIC PCS 7

Technical requirements

For the online training is a virtual training environment required, which is provided by us. We recommend that you consider the technical requirements for the best possible use.

Information on the technical requirements with RealVNC in PDF format

Note

- Course language is German

In this theoretical course assessment we request the taught content and the learning objectives from the "ST-PCS7SAF" course. => Online eTest zum Kurs SIMATIC PCS 7 Process Safety

After passing the test, you will receive a confirmation of successful participation in the course. This is one of the requirements for the further certification path at TÜV.

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Online-Training

Duration

4 days

Language

de