SIEMENS

SIMATIC PCS7 Process Safety (ST-PCS7F)

Objectives

In this course you learn how to generate a PCS 7 conform and failsafe application with CFC and Safety Matrix. The theoretical parts of the training are backed up with practical exercises. These exercises are done with failsafe S7-400 H / F-platform. After the training you will be able to evaluate safety functions and adjust security relevant times.

Target Group

Engineers with experience in PCS7 in failsafe applications for process plants

Content

- Functional safety Basics from IEC 61508 and IEC 61511,
- 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

Attendance of training course ST-PCS7SYS. General basic knowledge of process automation. Basic knowledge of PCS 7 OS. Good experience in AS configuration within PCS 7.

Note

Documentation in English.
Register in the calender one week before the training starts.

Type

Face-to-face training

Duration

3 days

Language

no