

eTest for Course SIMATIC PCS 7 Process Safety (CP-PCS7-S)

Ziele

- Creating of a PCS 7 conform safety applications with CFC and Safety Matrix
- Assessment of safety instrumented functions
- Calculate and adjust F- relevant times

Zielgruppe

Sales employees

Project managers, project staff

Programmer

Commissioning engineers, configuration engineers

Technical Consultants and promoters, who use safety technology in process control or attend customers using safety technology

PCS7 specialists within the scope of the Siemens partner program who are engineering projects with PCS7 and F-Systems

Inhalte

- Basics from IEC61508 and IEC61511
- LOPA (Layer of Protection Analysis) and Risk graph by means of a safety instrumented function
- PFD (Probability of Failure on Demand), Calculation of an SIF (Safety Instrumented Function)
- System architecture and diagnostics in safety components (Hardware, Software, Communication)
- Failsafe hardware, Parameter in HW- Configuration (safety mode, sensor evaluation, addressing, monitoring time, H-Parameter)
- F-Library system functions (F-Shutdown, Partial Shutdown Groups)
- F-Library user functions (Operation, communication, voting)
- Applications (passivation, reintegration, block typical)
- Safety Matrix
- Calculate and adjust F-times using S7ftimeb.xls

Teilnahmevoraussetzung

General basic knowledge of process control technology

Basic knowledge of PCS 7 OS

Good knowledge of AS project engineering with PCS 7

content:

Attending the course ST-PCS7SAF

Typ

Präsenztraining

Dauer

2 Stunden

Sprache

en