SIEMENS

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

Objectives

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

Target Group

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

Content

- 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

Prerequisites

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

Type

Face-to-face training

Duration

2 hours

Language

en