SIEMENS energy

Omnivise T3000 Protection (K-T3PROT)

Short Description

This seminar provides an overview of the basic failsafe principles in general and details of the S7-400FH failsafe system used in Omnivise T3000. The focus is on basic measurements with failsafe signal transmitters, logic and safety outputs, e.g., for emergency valves. Training will include demonstrations/practical exercises. A protection for an emergency valve will be implemented so the participants will learn all steps from design to commissioning and testing. Alarms are used for analyses and troubleshooting. Participants will also learn service and replacement of S7 failsafe modules.

Content

- Introduction to failsafe, safety and availability, SIL
- S7 400FH hardware and software architecture in Omnivise T3000
- I/O modules, PROFIsafe, redundancy, runtime container
- HW configuration, HW-proxies and channel driver
- Failsafe function diagrams
- Failsafe automatization functions
- Compile and download, point view
- Passivation and reintegration
- Protection-Acknowledgement
- Diagnostics: dynamized function diagrams, signal tracing
- Signature and certification
- S7 failsafe module exchange
- Lifecycle
- Acceptance
- F-Documentation
- Demo/practical exercises:
- Signal acquisition and logic
- Passivation and reintegration
- Protection-Acknowledgement
- Solenoid valve
- S7 module exchange

Prerequisites

T3BAS neo certificate, PC operations using MS Windows

Note

Number of participants: max. 10
Language: English
Duration of course: 3 days
Location: Power Academy Karlsruhe/Erlangen, Power Academy international Training Centers
Virtual Classroom
Onsite on request
Dates: upon consultation

Type

Face-to-face training

Duration

3 days

Language

en