

PROFINET and H-Systems in the Process Automation (Face-to-face Training) (ST-PCS7PNH)

Kurzbeschreibung

Learn from Siemens how you can implement process automation at the field level with the future-oriented PROFINET as open Industrial Ethernet standard.

Ziele

Using new SIMATIC PCS 7 components, you will learn how to quickly and effectively plan the fieldbus with PROFINET, assign parameters to it, commission it and eliminate faults.

Discover how you can make existing I/O future-proof using the PROFINET blueprints.

In addition, learn about handling, configuration, commissioning, diagnostics and troubleshooting of the high availability SIMATIC S7-400H system in the process automation environment with SIMATIC PCS 7.

You will reinforce the theoretical knowledge gained with many practical exercises.

Zielgruppe

- Project managers
- Project workers
- Programmers
- Configuration engineers

Inhalte

Fundamentals of Industrial Ethernet, PROFIBUS and PROFINET

Redundant PROFIBUS

Introduction to PROFINET

Design and planning of fieldbus systems based on PROFINET IO blueprints

PROFINET IO with configuration and topology

Diagnostic options and use of PRONETA

Commissioning ring redundancy with MRP

Configuration of SCALANCE switches for the PROFINET fieldbus

Plant-wide engineering & diagnostics using the Service Bridge Switch

Configuration and integration of the ET 200SP HA with DI/DQ module

Configuration of high-precision time stamping with the ET 200SP HA

Use of new PROFINET functions: System redundancy R1, CiR for Profinet

Redundancy theory: Explanation of terms, calculation of availability and common cause errors

CPU410-5H / S7400H: Synchronization, operating modes, operating systems

Hardware settings: H-parameters, self-test, DBs, H-CiR

Teilnahmevoraussetzung

Attendance of course ST-PCS7SYS is recommended

Basic knowledge of process control engineering

Practical experience in SIMATIC PCS 7 configuration

Basic knowledge of APL, as communicated in the system course

Hinweise

Included in the course price: Free access to the digital learning platform [SITRAIN access](#) – starting one week before the start of the course until two weeks after the end of the course.

With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

Only the "high availability" aspect of S7-400H systems is covered in this course. The configuration/programming of fail-safe SIMATIC S7-400H systems with the "F-systems" software package is a component of the course ST-PCS7SAF.

Typ

Präsenztraining

Dauer

5 Tage

Sprache

en

