

PROFINET with Industrial Ethernet in the TIA Portal Course (IK-TIAPN)

Short Description

Siemens, a member of PROFIBUS International (PI), offers you the opportunity to learn about the future-oriented PROFINET, the open Industrial Ethernet standard for automation. Using SIMATIC NET components, you will learn how to parameterize, commission and troubleshoot a PROFINET network quickly and effectively. Numerous practical exercises reinforce the acquired theoretical knowledge.

Target Group

Programmers
Commissioning engineers
Engineering personnel
Maintenance personnel
Service personnel
Operators

Content

Basics of Industrial Ethernet
Basics of PROFINET IO, RT&IRT
PROFINET IO with configuring and programming
Commissioning the media redundancy
Plant-wide engineering & diagnostics in the TIA Portal
Introduction to the integrated Web-services in the PROFINET devices
Utilizing and configuring Shared Device
Parameterizing and applications of I-Device
Links (PN/PN coupler)
Data communication Controller / Controller with:
▪ an S7 connection to the S7 communication blocks, PUT/GET, BSEND/BRECEIVE
▪ Ethernet connections (ISO on TCP, TCP, UDP) to the T-communication blocks, T-SEND/T-RECEIVE
Introduction to OPC UA communication
Extensive practical examples with exercises

Prerequisites

SIMATIC S7 knowledge according to TIA-PRO1, TIA-SERV2 or TIA-SYSUP.

Note

Course Duration - 5 Days
This training is conducted using SIMATIC S7-1500 and the SIMATIC STEP 7 software based on TIA Portal.

Type

Face-to-face training

Duration

5 days

Language

en