

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

Objectives

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.

This blended-learning course combines Web-based training on the Internet with a classroom course. As a follow-up to the classroom training, you will receive the WBT "Industrial Ethernet". By using this learning medium, you can maximize your personal learning success of the classroom course.

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 with 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 between two controllers with
 - S7 connections
 - Ethernet connections (ISO on TCP, TCP, UDP) through Open User Communication
- Data communication PC/Controller with an OPC-S7 connection
- Extensive practical examples with exercises

Prerequisites

SIMATIC S7 knowledge according to the course [TIA-PRO1](#), [TIA-SERV2](#) or [TIA-SYSUP](#).

Note

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

For more in-depth knowledge on the topics of Industrial Security, Industrial WLAN and OPC, we offer additional courses:

[siemens.com/sitrain-ik](https://www.siemens.com/sitrain-ik)

Type

Face-to-face training

Duration

5 days

Language

en