

## 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

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. Here you will find web-based trainings on [Name of curriculum or catalog](#) as well as other topics such as [Name of curriculum or catalog](#), [Name of curriculum or catalog](#) and many more. 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

### Prerequisites

SIMATIC S7 knowledge according to 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.

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all of the more than 480 web-based trainings available.

### Type

Face-to-face training

### Duration

5 days

### Language

en

### Fee

2,930 GBP