

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

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### Short Description

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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

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Programmers  
Commissioning engineers  
Engineering personnel  
Maintenance personnel  
Service personnel  
Operators

### Content

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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

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

### Note

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

### Type

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Face-to-face training

### Duration

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5 days

### Language

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en

### Fee

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2,540 GBP