

## Profinet med Industrial Ethernet i TIA Portal (IK-TIAPN)

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### Objectives

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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. This blended-learning course combines Web-based training on the Internet with a 4-day 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

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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  
Data communication PC /Controller with an OPC - S7 connection  
Utilizing the OPC SCOUT as OPC Client  
Extensive practical examples with exercises

### Prerequisites

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SIMATIC S7 knowledge according to TIA-PRO1, TIA-SERV2 or TIA-SYSUP. Additionally, an online entry test is available to ensure that the course of your choice fits your competencies

### Note

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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 our own courses under: [www.siemens.de/sitrain-ik](http://www.siemens.de/sitrain-ik)

### Type

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Face-to-face training

### Duration

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4.5 days

### Language

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### Fee

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21,100 SEK