

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

### Short Description

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 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

- 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 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

### Type

Face-to-face training

### Duration

4 days

### Language

en

### Fee

13,004 ZAR