

Online-Training PROFINET and IP-Based Communication with SIMATIC Controllers (IK-TIAPN)

Short Description

The increasing digitalization of companies and the resulting networking in almost all areas is opening up tremendous economic potential. For that matter, PROFINET and Industrial Ethernet are set standards in automation technology. This course shows you the possibilities PROFINET and Industrial Ethernet offer and enables you to implement efficient communication with SIMATIC controllers.

Objectives

In this live online course, you will get to know the real-time-capable standard PROFINET as well as IP based standards such as TCP/IP and OPC UA and how to use them in your automation. You will learn how to parameterize, commission and troubleshoot a PROFINET network quickly and effectively. You will also find out how to establish communication between controllers and beyond the controller and field levels. Numerous practical exercises with SIMATIC and SCALANCE products and TIA Portal reinforce the acquired theoretical knowledge.

Target Group

Engineering personnel
Programmers
Commissioning engineers
Service personnel

Content

Basics of Industrial Ethernet
Basics of PROFINET IO (RT & IRT)
Configuring PROFINET IO
Media redundancy
Device and network diagnostics
Introduction to the integrated web servers of SIMATIC and SCALANCE devices
Utilizing and configuring Shared Device
Parameterizing and application of I device
Gateways and communication via PN/PN couplers
Communication via S7 connections
Communication via Open User Communication (TCP, ISO-on-TCP, UDP)
Basics of OPC UA and SIMATIC S7-1500 as OPC UA server

Prerequisites

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

Type

Online-Training

Duration

5 days

Language

tr