# SIEMENS

## SIMATIC S7 Industrial Ethernet (IK-IESYS)

### Short Description

In this live online course, you will be trained on industrial ethernet communication with Simatic S7300 PLC. PLC hardware, communication program writing and error search will be covered.

### Objectives

The course teaches the essential fundamental knowledge of Industrial Ethernet protocols and services. You will learn how to handle the currently available tools for startup, service, testing, and diagnostics.
Learn about the different ways of setting up Industrial Ethernet networks from Siemens, the market leader for automation systems! You will consolidate your theoretical knowledge with numerous practical exercises on the equipment.
On completion of this practice-oriented course, you will be able to install and optimize an Industrial Ethernet network, and you will learn step-by-step how you can limit and correct faults quickly.
This blended-learning course combines Web-based training on the Internet with a 3-day attendance course. For an optimized postprocessing of the attendance course you get the WBT "Industrial Ethernt". By using these learning media, you increase your personal learning success in the attendance course.
In these course you will work with the SIMATIC STEP 7 V5.x software.

### Target Group

Programmers, Commissioning engineers, Engineering personnel, Maintenance personnel, Service personnel, Operators

### Content

- Functional principle, properties and components of SIMATIC NET 10/100/1000Mbit/s Industrial Ethernet
- Basic installation guidelines
- Connections
- TCP/IP transport protocols
- Elementary TCP/IP diagnostics
- Configuring of ISO and TCP connections
- S7 connections via Industrial Ethernet
- Programming of the SEND/RECEIVE interface
- SIMATIC S7 diagnostics tools (NCM diagnostics tool)
- Introduction to OPC
- Overview of PROFINET IO

### Prerequisites

SIMATIC S7 knowledge according to ST-PRO2 or ST-SERV2 or S7-SYS2

### Type

Online-Training

### Duration

4 days

### Language

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