

Data communication with Industrial Ethernet (WT-IEOSI)

Objectives

The learners get a first insight into Industrial Ethernet by the webbased training. After processing the tutorial program, the learners will know and understand the meaning of Industrial Ethernet as well as its principle and function in connection with the ISO/OSI data communication model.

Target Group

Target group

- Decision makers, sales personnel
- Commissioning engineers, Service personnel
- Operators, users
- Maintenance personnel

Content

Introduction to Industrial Ethernet

- The Ethernet standard
- The Ethernet standard
- Ethernet in the automation levels
- ISO/OSI data communication model

Application-oriented layers

- Application-oriented layers, based on the example of parcel shipment
- Assignment of services through ports
- Application-oriented layers in the ISO/OSI model

Addressing and transport of data packets

- Layer 4: Transport layer
- Layer 3: Network layer
- Layer 2: Data link layer

Transmission media and procedures

- Transmission media
- Cabling systems
- Transmission technologies
- CSMA/CD - Access procedures

Prerequisites

PC with following minimum configuration

- Microsoft Windows XP / 7 or higher
- Microsoft Internet Explorer 10.x
- flash player version 10 or higher
- Internet connection
- Software warrenty class A

Type

E-Learning

Duration

1 hour

Language

en

Fee

0 SEK