SIEMENS

Fundamentals of Industrial Networking - Virtual (IEN-NETOILFUND)

Global Reference

Online-Training - Ethernet Fundamentals in Industrial Networks (IK-ETHBAS)

Type

Virtual Instructor-led Learning

Duration and Continuing Education Units (CEU)

13 Hours (Schedule varies)
0 CEUs

Short Description

This virtual course is an introductory course to networking technology and mechanisms – the foundation of today's digital communication. Designed as a recommended prerequisite for our suite of Certification courses, it will take you on a tour through the seven networking layers. At the end of the course, students will have a broad understanding of networking terminology, as well as a deeper knowledge of the principles of building Ethernet networks.

Objectives

- Understanding the OSI Reference Model
- Learning the Physical Layer (Copper, Fiber, Wireless)
- Learning the Data Link Layer (MAC, VLAN)
- Learning the Network Layer (TCP/IP, Routing Protocols)
- IPv4 vs IPv6 Addressing
- Understanding Upper Layer Communications

Content

- Introduction to Industrial Ethernet
- Layer 1 – Physical Layer
- Layer 2 – Data Link Layer
- Layer 3 – Network Layer
- Layer 4 through 7 – Upper Layers

Note

The class in online via MS Teams.

Language

English