SIEMENS

Diagnostics and Optimization of Industrial Networks with SCALANCE - Virtual (IEN-IKOILDIOPT)

Type

Virtual Instructor-led Learning

Duration and Continuing Education Units (CEU)

6 Hours (Schedule varies)
0 CEUs

Target Group

- Commissioning
- Engineer
- Operator
- Sales

Short Description

This virtual course is one of four advanced level courses, available for engineers wanting to obtain the Expert Level designation of Siemens Certified Expert for Industrial Networks (CEIN). The curriculum covers diagnosis of typical errors in industrial networks and determine how to prevent them or minimize their impact on operations through enhanced device functionality.

Objectives

- How to diagnose typical errors in industrial networks, using practical examples
- Determine how to prevent these errors or minimize their impact through enhanced device functions
- How to secure administrative access to components, and to restrict access to the network itself
- Become familiar with the available tools and functions which can be used to ensure the required performance, availability, and security of the network

Content

- Introduction to basic tools such as terminal access and network analysis tools, as well as applications for time synchronization and logging of event messages
- Basics of a professional network layout
- Network analysis for troubleshooting
- Detection and prevention of physical errors
- Detection and prevention of Ethernet errors
- Identification and fulfillment of security requirements
- Detection and prevention of overload situations
- Optimization of convergence times
- Comprehensive exercises

Recommended Prerequisites

Switching & Routing in Industrial Networks: IEN-IKSWROU1A

Note

Throughout the course, students will have ample time for practical exercises, diagnostics, and troubleshooting. The course uses a virtual model and exercises for realistic demonstrations.

Language

English