SIEMENS

Wireless LAN in Industrial Networks - Virtual (IEN-IKOILWLAN1A)

Type

Virtual Instructor-led Learning

Duration and Continuing Education Units (CEU)

6 Hours (Schedule varies)
0 CEUs

Target Group

- Engineer
- Commissioning
- Operator

Short Description

This virtual course is one of three certification courses offered under the Siemens Certified Professional for Industrial Networks (CPIN) program. The curriculum covers the basic physics of WLAN, and the various wireless standards and access methods. Throughout the course, students will learn how to plan, configure and operate wireless solutions in industrial applications, in interaction with real-time systems.

Objectives

- Comparison and coexistence of different wireless technologies
- Theoretical fundamentals of wireless technology
- Security and high data rates in WLAN
- Introduction to the different WLAN standards
- Planning and configuration of different radio links
- Planning and configuration of RCOAX radio networks with iPCF
- Planning and configuration of free radio networks with iPCF-MC
- Introduction to iREF and Inter AP Blocking
- Comprehensive exercises using the SCALANCE W product line

Content

- Introduction to Industrial Wireless (IWLAN)
- Wireless Theory
- Antenna technology
- WLAN access procedures
- WLAN Standards
- Radio field planning
- Typical industry protocols
- iPCF
- iPCF-MC

Note

Throughout the course, students will have ample time for practical exercises, diagnostics, and troubleshooting. The course material and exercises will be delivered in a virtual meeting/classroom tool such as Microsoft Teams.

Language

English