SIEMENS

Wireless LAN in Industrial Networks (IC-IWLANP)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

3 Days
0 CEUs

Target Group

- Commissioning
- Engineer
- Operator
- Maintenance
- Programmer
- Reliability
- Sales
- Other

Short Description

In industrial environments, WLAN is exposed to more extreme conditions, such as temperature fluctuations, humidity, dust, etc. In addition, a high-degree of reliability and performance is expected from these systems. At the same time, these industrial WLAN networks (IWLAN for short) provide a great deal of flexibility for companies in the implementation of complex applications indoors and outdoors. Thus, with Safety Integrated, applications can also be wirelessly implemented and seamlessly connected to Industrial Ethernet with PROFINET components. The course teaches the configuration, planning, and operation of IWLAN, also in interaction with real-time-capable systems. To ensure that the theoretical knowledge can later be implemented, we value in-depth practical exercises during the training. You can deepen your theoretical knowledge with numerous practical exercises on products from the SCALANCE W product line.

Objectives

- At the end of the course, you will know the requirements for wireless solutions in industrial networks. You will learn the fundamentals and knowledge required to plan, implement and support for plain mobile networks.

Content

- Comparison and coexistence of different wireless technologies
- Theoretical fundamentals of wireless technology
- Security and high date 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
- Comprehensive exercises using the SCALANCE W product line

Recommended Prerequisites

IC-ETHFU: IC-ETHFU

Language

English