# SIEMENS

## Industrial wireless-LAN (Siemens CPIN) (IK-IWLANS)

### Short Description

You can deepen your theoretical knowledge with numerous practical exercises on products from the SCALANCE W product line.

### Objectives

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. Familiarize yourself with the required fundamentals of such networks in the qualification module "Wireless LAN in Industrial Networks" of the Industrial Networks Education - Certification Program. Thecourse 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. 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.

### Target Group

Decision makers
Planners
Sales personnel
Configuring engineers
Operators, Users
Programmers
Commissioning engineers
Engineering personnel
Project engineers
Maintenance personnel
Service personnel
Industry: COOs
IT: CIOs, network planners and administrators

### Content

Comparison and coexistence of different wireless technologies
Theoretical fundamentals of wireless technology
Introduction to the WLAN access procedures
Security and high date rates in WLAN
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

### Prerequisites

You should have basic knowledge of the topic "Ethernet" and should be familiar with topologies, transfer processes, addressing, data transport, and understand the associated technical vocabulary. It is also helpful if you are familiar with the principles of operation of routers, switches, hubs and the OSI reference model. Basic knowledge of SIMATIC S7 and knowledge from the ST-PRO2 or ST-SERV2 courses is desirable.

### Note

Certification (Siemens CEIN-LEVEL)
▪ After the training course, you have the opportunity to become certified as "Siemens Certified Engineer for Industrial Networks - IWLAN". The certification examination takes place at the end of this training. As an option, the examination may be taken at a later time.

### Type

Face-to-face training

### Duration

3 days

### Language

en

### Fee

11,250 DKK