SIEMENS

Diagnostics and Optimization of Industrial WLAN (IK-WLANADV)

Short Description

The functionality and reliability of WLAN networks are always dependent on the structural environment as well as on other sources of interference such as neighboring wireless applications. Due to these fuzzy, locally individual and at all times changing environmental parameters, WLAN solutions - unlike wired networks - are not 100% predictable. There is always the possibility that adaptations must be made during the commissioning and operation of wireless networks. Especially in industrial applications, where availability and reliability of a network play central roles, it is crucial to understand that industrial WLANs can only be diagnosed and optimized through a holistic approach. In this course, participants will learn about the techniques and methods for diagnosing industrial wireless networks as well as for eliminating interference and error sources.

Objectives

After the training, participants can properly assess wireless signals. Furthermore, participants will be familiar with the available tools and know which parameters can be adapted to ensure the required performance of the network.
Practical exercises as well as corresponding checklists complete the course.

Target Group

Technical sales personnel
Industry: Planners, commissioning engineers, configuration engineers, service/maintenance personnel
IT: Network planners and administrators

Content

Introduction to holistic diagnostics
Clarification or repetition of technical terms
Preparation and survey of the physical structure
Introduction to wireless field diagnostics
Procedure for device diagnostics
Introduction to network diagnostics
Comprehensive exercises

Prerequisites

Knowledge in accordance with the course "Wireless LAN in Industrial Networks": Participants must be very familiar with topologies, transmission methods, addressing and transport of data, and ideally possess practical experience in the field of industrial WLANs.
Knowledge of the ISO / OSI model as well as the functionality of common network devices.

Type

Face-to-face training

Duration

2 days

Language

en

Fee

7,500 DKK