SIEMENS

Diagnostics and Optimization of Industrial Wireless LAN (IC-DIOPWNE)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

2 Days
0 CEUs

Target Group

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

Short Description

The functionality and reliability of WLAN networks are always dependent on the structural environment as well as other sources of interference such as neighboring wireless applications. Due to these locally individualized and ever-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 mission-critical and 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 eliminating interference and error sources. Practical exercises as well as corresponding checklists complete the course.

Objectives

- After the training, participants will be able to properly assess wireless signals. Furthermore, participants will be familiar with the tools and parameters that can be adapted to ensure the required performance of the network.

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
- Practical exercises

Mandatory Prerequisites

Language

English