
IK-IWLANSYS – Industrial Wireless LAN System Course / К у р с IK-IWLAN – Industrial Wireless LAN System Course (IK-IWLAN)

Short Description

The course is intended for the experts who are engaged in commissioning and service of the wireless networks applied in the industry (Industrial Wireless Networks). Practice of a course to be under construction on the basis of points of access and clients of production Siemens, and also controllers of a line of SIMATIC S7-300/400 and the distributed periphery of ET200

Objectives

On a course theoretical main functioning of wireless networks in compliance with IEEE 802.11 are considered you study how to use tools of a configuration, testings and diagnostics of IWLAN. You learn about various ways of creation of the industrial IWLAN networks on the basis of the Siemens components, the leader of the market of systems of automation! Your theoretical knowledge will be consolidated with numerous practical exercises to a configuration and programming of data exchange between participants of a network by means of various configurations of system: Ad-Hock, Infrastructure, Bridge, WDS. Upon completion of this course focused on practice you will be able to build and optimize the IWLAN networks, and receive skills on planning and diagnostics of industrial wireless networks

Target Group

Developers of systems of automation
Service engineers
Service personnel

Content

- Bases of Industrial Ethernet and its services in compliance with IEEE 802.3
- Bases of functioning of wireless networks according to IEEE 802.11
- Types of architecture of wireless networks
- Network SIMATIC NET components
- An equipment configuration via the WEB INTERFACE and in the console mode
- Diagnostics of connections
- Integration of Wireless LAN into the existing network infrastructure
- Bases of information security of wireless networks
- Integration of the PROFIBUS networks into Profinet Wireless LAN
- Features of the Wi-fi networks and Profinet RT mode
- Creation of redundant networks

Prerequisites

Knowledge of SIMATIC S7 systems according to the courses ST-PRG1 or ST-SERV1. Knowledge in volume of IK-PNSYS is recommended strongly.

Note

- Practical exercises are carried out with use of points of access of SCALANCE W 788 RR, PLC SIMATIC S7-300 (CPU 315-2PN/DP), IWLAN/PB Link with the CP 341-1 communication processors and SCALANCE X switchboards, the Simatic NET OPC servers
- Additional Comments you will work with the software of STEP 7 SIMATIC V5.5.

Type

Face-to-face training

Duration

4 days

Language

ru