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Course Details

Siemens Industrial Communication

[siemens.com.my/SIRT](https://www.siemens.com.my/SIRT)

Wireless LAN in Industrial Networks (IK-IWLANS) 3 days

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Requirements

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

Description / 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.

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. 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
- Introduction to the WLAN access procedures
- Security and high data 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

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

Contact Information

SIEMENS MALAYSIA SDN. BHD. (93008-X)

HRDF Training Provider ID: 13213/82

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SITRAIN Training Room,
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E-mail: industry.my@siemens.com

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Website: siemens.com.my/SIRT

Bank Details

Bank Name: Deutsche Bank (M) Bhd
Bank Account Number : 0020768000
Bank Address : 18th – 20th Floor, Menara IMC 8,
Jalan Sultan Ismail,
50250, Kuala Lumpur
Bank Swift Code : DEUTMYKLXXX

Daywise Schedule

Day	Time	Topics
Day 1	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Introduction to wireless Wireless theory Radio field planning Exercise
Day 2	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Access methods Security and high data rates Communication in automation Exercise
Day 3	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 16:00 Hrs	iPCF and overhead monorails iPCD-MC and AGVs iPRP and Portfolio Summary and Feedback

Break Timings:

10:00 Hrs – 10:15 Hrs	Morning Tea Break
12:00 Hrs – 13:00 Hrs	Lunch Break
15:00 Hrs – 15:15 Hrs	Afternoon Tea Break
17:00 Hrs – 17:15 Hrs	Recess & End of Day