



COST: \$995 per person

CERTIFICATION

HiWP: Hirschmann Industrial Wireless Professional

CONTACT INFORMATION

For questions, please contact **Derek Washington**:
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or email: derek.washington@belden.com



WHO SHOULD ATTEND

Experienced system engineers, network designers and support technicians who are building, looking to build, and/or are supporting an Industrial Wireless LAN

PREREQUISITES

Working knowledge of Ethernet networking fundamentals and basic knowledge of Wireless LAN technology is required. Participants should bring a laptop with Ethernet and wireless connections, a WLAN interface and an operating system CD. Administrator rights are required.

OBJECTIVE

Participants acquire familiarity with the underlying technology of wireless networks and their specific requirements as to range, EMC and security. In addition, through theory and practice, participants receive in-depth knowledge about the functionality of the Hirschmann BAT family. After completing this course a student should be able to understand the fundamentals of a wireless LAN design and identify and select components for a complete WLAN architecture. Participants will also leave knowing how to install, commission and supervise the use of BAT devices as access points, clients or bridges.

View schedule and registration:
<https://www.belden.com/resources/training/industrial-training/certifications>

COURSE INCLUDES

- 3 days of training (Tues-Thurs)
- Breakfast and lunch
- Hard and soft copy of training materials
- HiWP exam voucher
- Complimentary exam voucher for first renewal of HiWP

COURSE CURRICULUM

General Overview

- Market significance of wireless LANs (WLANs)
- Areas of application
- Advantages and disadvantages

Wireless LAN Basics

- Physical layer/MAC
- Transmission technology
- Access methods
- Packet formats

IEEE 802.11 Standard

- Development history
- Working groups

Statutes and Regulations

- Frequency bands
- Communications systems

Security

- Encryption using WEP, WPA and WPA2
- Weaknesses
- Countermeasures

Electromagnetic Compatibility

Planning a WLAN

Functionality of the BAT Family

Configuration of BAT Devices