OneWireless: Fundamentals - ISA100 Wireless System Implementation

Course Overview

Course number: OW-0002
Course length: 3.5 days

Honeywell’s OneWireless network offers wireless coverage for both ISA100 Wireless field instruments and Wi-Fi devices. Depending on the plant’s requirements, the network can be designed either as a field instrument mesh network, a field instrument only mesh network or a multi-application network. The network can include a Field Device Access Point (FDAP), which is an industrial access point that provides access to ISA100 Wireless field instruments. The network includes a Wireless Device Manager (WDM), which manages all ISA100 Wireless field instruments and ISA100 Wireless network. The Wireless Device Manager also acts as the gateway for ISA100 Wireless field instruments. (Note: ISA Wireless was formerly called ISA100.11a)

This course provides participants the ability to perform the following tasks as applicable to their system that include:
- Configuring the Wireless Device Manager and Field Device Access Point
- Monitoring the OneWireless System
- Provisioning devices to join the OneWireless System
- Implementation of an XYR 6000 device
- Building a control system point using OPC UA and/or Modbus to access OneWireless device data

Course Benefits

Be able to deploy a OneWireless System and
- Operate the system with confidence
- Transition smoothly to wireless technology
- Monitor a OneWireless System effectively
- Connect OneWireless with your DCS system

Course Delivery Options

- In-Center Instructor-Led Training

Who Should Take This Course?

Control system support personnel who need to
- Configure devices for a OneWireless System
- Manage and monitor a OneWireless System

The course is intended for users who are new to OneWireless.

Prerequisite/Skill Requirements

Prerequisite Course(s)
- None

Required Skills and/or Experience
- Previous completion of a DCS system course

Desirable Skills and/or Experience
- Knowledge of DCS system architecture and networking
- Familiarity with field measurement devices and application
- General understanding of wireless network topologies and RF principles
- General understanding of Windows networking
- General understanding of how to apply OPC and Modbus to access process data

Course System Requirements

To complete the lab exercises, you will have access to a OneWireless system to perform configuration tasks.

Additional Training

To increase your knowledge and skills regarding wireless LAN concepts, there are additional courses, books, or resources available from third party sources that Honeywell can suggest. Our instructional team has the following suggestions on how you can increase your wireless skills and knowledge.

The following training offerings are suggested by Honeywell to provide you additional background in wireless concepts. Check with the vendors and your own Human Resources department before registering as you may have a corporate discount that could apply.
- “CWNA Certified Wireless Network Administrator” from www.newhorizons.com

The following courses are available through SkillSoft (http://www.skillsoft.com). Suggested SkillSoft courses include the following:
- Wireless Communication Basics
- Wireless LAN Technologies
- Security and the Wireless Environment

The following book is highly recommended.
- CWNA: Certified Wireless Network Administrator Study Guide (Exam PW0-100) by David D. Coleman and David A. Westcott

To increase your knowledge and skills, there are additional courses available from Automation College.

For more information and registration, visit www.honeywellprocess.com/en-US/training.