FOUNDATION Fieldbus Training for Process Automation

Endress+Hauser's Competence Centre

Fieldbus Foundation

April 26 to 28, 2016
Endress+Hauser Canada Ltd
1075 Sutton Drive
Burlington, ON L7L 5Z8

September 13 to 15, 2016
Endress+Hauser Canada Ltd
9045 22 Avenue SW
Edmonton, AB T6X 0J9

Course fee
$2,500 per person

To register contact
training@ca.endress.com

Who Should Attend?

- Technicians
- Maintenance Technicians
- Engineers
- Service/Support Specialists
- Programmer/Device
- Configurators

Description

The advantages of fieldbus products are recognized by most industries; the technology has been adopted in many applications. The use of fieldbus technology asks for a different approach with respect to defining, designing, and realizing a FOUNDATION Fieldbus installation. The success of an implementation depends on an integral approach, based on knowledge and experience. Cost savings throughout a plant life cycle from planning, commissioning to maintenance.

This 3-day session, comprises theoretical and practical work. Training is designed for the participant to gain more knowledge of the FOUNDATION Fieldbus technology and all its features, to be able to select the correct components for applications and installations, to become familiar with correctly implementing instruments as well as commissioning and troubleshooting.

Prerequisites

Basic knowledge of computers, electronics and mathematics.

Theory:

- Fieldbus organization, competence center, structure
- From analog to digital
- ISO/OSI Model
- FOUNDATION Fieldbus physical layer
- FOUNDATION Fieldbus construction (HI, HSE)
- Types of wires and components
- Link Active Scheduler (LAS) capabilities
- Block Modes (auto, out of service, etc.)
- Segment calculations (voltage, current loads, number of devices)
- FOUNDATION Fieldbus communication method
- System Integration
- Communication stack
- FISCO model
- Grounding, shielding concept
- Resource and transducer blocks
- Function block types and diagnostics
- Function block locations (control in field)
- Device Descriptions (DDs)
- Common File Format (CFF)
- Alarms and Status
- FOUNDATION Fieldbus protocol
- Project documentation

Practical:

- Wiring of FOUNDATION Fieldbus segments
- Integration w/Nt'l Integration Configurator
- Configuration of the function blocks including PID loops
- Signal measurement with oscilloscope
- Bus analysis with Relcom FBT and P+F tools
- Procedures for troubleshooting communication problems
- Building control strategies
- Device replacement
- Troubleshooting

Endress+Hauser
People for Process Automation