ControlEdge: Fundamentals – RTU (with Experion Integration) Implementation

Course Overview
Course number: CTE-0002-VILT
Course length: 2 days

Need to plan and implement your ControlEdge RTU?
This course provides participants the ability to perform the following tasks as applicable to ControlEdge RTU:

- Plan the system. This includes the planning, operating, integrating the ControlEdge RTU
- Configure and program the ControlEdge RTU for communication with SCADA servers such as Experion® and asset management systems like FDM
- Program ControlEdge RTU for performing metering functions compliant to AGA standards for gas and API 11.1, API 21.1 standards for liquids
- Configure and commission Wireless I/O in ControlEdge RTU

Course Benefits
Efficient ControlEdge RTU planning and implementation
- Conceptual understanding of the ControlEdge RTU to enable optimum utilization of its capabilities & features
- Introduction of Controller Simulator and its features
- Design and configure the ControlEdge RTU for its optimum usage
- Recognize the role of the hardware and software components of ControlEdge RTU
- Install and configure ControlEdge RTU and Controller Simulator
- Configure strategies to incorporate regulatory control and discrete Logic
- Integrate ControlEdge RTU with Experion and Report generation using EFM functionality

Course Delivery Options
- Virtual Instructor-Led Training (VILT)
  IMPORTANT – Prior to registration for the e-learning courses (AT, RT, VILT, and VT), you must perform the User Readiness Test. Go to Asynchronous Training, Recorded Training, Virtual Instructor-Led Training, and Virtual Training Access Requirements to perform this test.

Who Should Take This Course?
ControlEdge RTU Implementers
- System engineers or application engineers who configure and modify ControlEdge RTU
- Maintenance engineers or technicians who add new logic, applications and control loops or troubleshoot existing

Prerequisite/Skill Requirements
Prerequisite Course(s)
- None

Required Skills and/or Experience
- None

Desirable Skills and/or Experience
- Understanding of Experion SCADA concepts and configuration
- Familiarization of IEC 61131-3 based programming languages & basic knowledge of PLC & SCADA
- Basic knowledge of instrumentation and flow meters
Course Topics

You will learn in ControlEdge RTU Implementation ...

- Overview of ControlEdge RTU
- ControlEdge RTU hardware familiarization and specifications
- Components of ControlEdge RTU
- Topologies supported by ControlEdge RTU
- Configuration of ControlEdge RTU, Its Onboard and Expansion I/Os
  - HART support for onboard and Expansion I/Os
- Overview of Controller Simulator and its features
- Programming the ControlEdge RTU and Controller Simulator
- ControlEdge RTU-SCADA communication using DNP3 and Modbus protocol
- ControlEdge RTU-FDM communication
- Configure data logging in ControlEdge RTU
- EFM Configuration in ControlEdge RTU and SCADA
- ControlEdge RTU diagnostics
- Wireless I/O
- Security Features Supported by ControlEdge RTU

Additional Training

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.