Experion PKS: Fundamentals - Controller Fieldbus Configuration Implementation

Course Overview

Course number: EXP-24
Course length: 4 days

Need to plan and implement your Experion® Process Knowledge System (PKS) FieldBus on a C200/C200E/C300 Controller?

This course provides participants the ability to perform the following tasks:

• Build control strategies in the Control Execution Environment that can be applied to the FieldBus Interface Module and the C200/C200E/C300
• Configure, build and load control strategies to a FieldBus network and FieldBus devices
• This includes configuring and loading a C200/C200E/C300 controller with FIM modules
• Starting from R400 this also includes implementing a Fieldbus simulation
• Support for FIM8 is also incorporated

Participants will build and configure a C200/C200E/C300 controller with a FieldBus Interface Module. Lab exercises will also include building FieldBus points as well as cascaded C200/C200E/C300 to FieldBus points.

Maintaining the FieldBus Network will include replacement of like and unlike devices as well as trouble shooting techniques of the FieldBus network. Course participants will also implement a Fieldbus simulation, including FIM, device and control strategy configuration.

Course Benefits

Efficient planning, implementation, and maintaining of your Experion PKS C200/C200E/C300 Controller with FieldBus Devices

• Conceptual understanding of how to configure FieldBus devices and points on a C200/C200E/C300 controller.
• Design and configure FieldBus control strategies
• Maintaining a FieldBus network
• Implementing a Fieldbus simulation
• Explanation of FIM8 support

Course Delivery Options

• In-Center Instructor-Led Training
• On-Site Instructor-Led Training

Who Should Take This Course?

Experion PKS System Implementers

Experion PKS C200/C200E/C300 Engineering and configuration tasks can impact the following job roles. Other job roles performing these tasks could also participate.

• System or Application engineer responsible for configuring FieldBus on the C200/C200E/C300 controller, adding to or changing FieldBus on C200/C200E/C300 controller
• Maintenance Engineer or Technician responsible for adding new FieldBus control loops or troubleshooting existing loops

Prerequisite/Skill Requirements

Prerequisite Course(s)

• EXP-2001

Required Skills and/or Experience

• R431/C200/C200E/C300 experience
• Plant experience in design, engineering, or maintenance of FieldBus systems

If job responsibility includes only C200/C200E/C300 controller

• Ability to navigate the Experion PKS station
• Call up point detail, group, and/or custom displays bus systems

Desirable Skills

• Plant, process, and controls knowledge
• Experience configuring DCS Controller
Course Topics

You will learn in R431 how to...

- Plan FieldBus on C200/C200E/C300 Controller
- Configure FieldBus on C200/C200E/C300 Controller including:
  - Hardware
  - Control Modules, which incorporate analog and digital control strategies
  - Maintaining FieldBus network by changing out of devices
- Implement a C300 Fieldbus simulation
  - FIM4 with H1 network
  - FIM8 with H1 network
  - Devices
  - Control modules, which incorporate analog and digital control strategies

Additional Training

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

Foundation FieldBus Certified Training is available from Southern Alberta Institute of Technology (SAIT) in Calgary AB or LEE College in Houston, TX.

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