Experion PKS: Fundamentals - Basic Networking Concepts and FTE Implementation

Course Overview

Course number: EXP-1015-VT
Course length: 3 days

Need to implement Experion® Process Knowledge System (PKS) R4xx system with Fault Tolerant Ethernet (FTE) as process control network?

This course provides participants the ability to perform the following related to implementation of FTE:

- Understand basic networking devices and networking topologies
- Understand Honeywell FTE solution
- Configure network switches for FTE
- Prepare nodes for installing FTE
- Configure FTE
- Troubleshoot FTE network

The course presents the concepts of networking and guidelines needed to implement FTE.

Demonstration videos will include configuring network switches for FTE and installing and configuring FTE software.

Course Benefits

Improve your knowledge and capabilities towards implementing Honeywell process control network

- Identify various networking components and their operations
- Configure networking components to support Fault Tolerant Ethernet
- Gain the basic skills to install and configure Fault Tolerant Ethernet
- Utilize FTE status display to understand the network health

Course Delivery Options

- Virtual Training (VT)

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?

Project Engineers, Network Administrators

Users of Experion PKS and network administrators who are responsible for implementation and troubleshooting of Experion PKS R5xx FTE

Prerequisite/Skill Requirements

Prerequisite Course (s)
- None

Required Skills and/or Experience
- None

Desirable Skills
- Basic understanding of computer network
- Basic understanding of various Experion PKS nodes
- Basic understanding of virtualization concepts

Course Topics

- Basic networking concepts
- Types network cables and connectors
- Understand basic operation of various network components and devices
- Overview of:
  - Network protocols
  - OSI model
  - Network services
  - WAN and VLAN Topologies
  - Securing Network
  - Troubleshooting Utilities
  - IEEE 802 Standard
- What is a process control network?
  - Introduction to Honeywell process control network
  - Process control network with Secure Communications
  - Introduction to Fault Tolerant Ethernet the control network of the Experion PKS
  - Considerations for planning an FTE system

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Course Topics continued

- Introduction to software and hardware components of FTE
- Introduction to Virtualization
- FTE Switch Configuration Tool
- Configuration of switches to support FTE
- Installation of FTE Software
- Configuration of Honeywell Mux Driver
- Troubleshoot FTE network

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.