Experion PKS: Fundamentals - Virtualization Implementation

Course Overview

Course number: EXP-48-AT
Course length: 4.5 days (self-paced with 10 days to complete)

Need to implement off process virtual Experion® Process Knowledge System (PKS) R3xx/R4xx/R500 system or on process R4xx/R500 system?

This course provides participants the ability to perform the following (Experion PKS off-process) / (on-process) virtualization system tasks:

- Overview of BladeCenter S solution
- Overview of Dell FX2 Solution
- Understand Honeywell topologies in virtual environment (with Essential and Premium platform hardware)
- Install and configure ESXi 6.0
- Install vSphere Client
- Configure Host and Virtual Network on ESXi Host
- Install and configure vCenter 6.0
- Add an ESXi host to the VMware Datacenter
- Configure virtual machines for installing Experion PKS
- Perform Virtual Machine Operations
- Configure vMotion to move running virtual machine from one ESXi to another ESXi host
- Use Templates and Clones in vCenter
- Overview of ESXi and vCenter maintenance tasks
- Perform backup and restore of virtual machines using EBR
- Understand the concept and utilization of vSphere HA and Fault Tolerance for Premium Platforms
- Understand the Installation and configuration of Experion nodes using ESM

The course presents the concepts and guidelines needed to implement (Experion PKS off-process) / (on-process) virtual system. Lab exercises will include installing and using ESXi server, vCenter server, and vMotion.

Course Benefits

Improve your knowledge and capabilities towards implementing (Experion PKS off-process) / (on-process) virtual Experion PKS R500, R4xx.x, R31x.x or R30x.x systems

- Identify various components involved in Experion PKS virtualization
- Gain the basic skills to operate ESXi server using vSphere client and vCenter
- Utilize tools to facilitate system support functions

Course Delivery Options

- Asynchronous Training (AT)

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?

Virtualization users and system administrators

Users of virtual Experion PKS and system administrators who are responsible for implementing (Experion PKS off-process) / (on-process) virtual Experion PKS R500, R4xx.x, R31x.x or R30x.x systems.

Prerequisite/Skill Requirements

Prerequisite Course(s)

- None

Required Skills and/or Experience

- EXP-48 does not cover core Experion PKS topics and knowledge of Experion PKS is expected

Desirable Skills and/or Experience

- Basic understanding of virtualization and hypervisor technology
- Understanding of types of virtualization; example: application, desktop, and platform virtualization
- Understanding of VMware ESXi platform concepts

Course Topics

- Overview of VMware virtualization
- Understand Honeywell topologies in virtual environment
Course Topics Continued

- Overview of Premium Platforms (BladeCenter S and Dell FX2)
- Security Planning in a VMware Environment
- Storage and Network Planning in a VMware Environment
- Hardware and software specifications for virtual system
- Install and configure ESXi 6.0
- Install vSphere Client
- Configure Host and Virtual Network on ESXi Host
- Install and configure vCenter 6.0
- Configure virtual machines and prepare for installing Experion PKS
- Perform Virtual Machine Operations
- Perform vMotion
- Use Templates and Clones in vCenter
- Perform backup and restore of virtual machines using EBR
- Understand the concept and utilization of vSphere HA and Fault Tolerance for Premium Platforms
- Understand the Installation and configuration of Experion nodes using ESM
- Overview of administration in virtual environment
- Overview of ESXi and vCenter maintenance tasks
- Install and configure VMware Workstation (Reference only)

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.