



# HP Education Services Course Overview

Advanced HP Insight Control Server Deployment Topics (HK759S)

This 2-day course provides students with advanced HP Insight Control Server Deployment 6.2 knowledge and skills, such as advanced deployment techniques, using multiple partitions, and deployment of Microsoft Hyper-V, Linux RPM packages, and VMware ESX.

## Audience

The primary audience for this course is administrators, engineers, and consultants who will:

- Perform advanced deployment and management tasks in a deployment environment based on HP Insight Control Server Deployment 6.2
- Perform HP Insight Control Server Deployment 6.2 tasks such as installation and configuration of Microsoft Hyper-V and VMware ESX software, creation of virtual machines, and deployment of operating systems to these virtual machines.

## Prerequisites

HP recommends that students have attained these credentials or levels of experience before taking this course:

- It is assumed that the student already has a basic HP Insight Control Server Deployment experience, which can be gained by completing the HP Insight Control Server Deployment Foundations course (HE645S)
- Familiarity with general networking terminology and basic network security concepts
- An understanding of these operating systems: Microsoft Windows Server 2008, and Either Red Hat Enterprise Linux AS/ES or SuSE Linux Enterprise Server
- Familiarity with these server virtualization solutions: Microsoft Hyper-V, and VMware ESX 4.0 or newer

## Course objectives

HP Insight Control Rapid Deployment software is a server deployment solution that facilitates the installation, configuration, and consistent deployment of high-volumes of servers through either a GUI-based or a web-based console, using either scripting or imaging technology. Server configuration time is reduced, making it possible to scale server deployments to high volumes in rapid fashion.

At the conclusion of this course, you should be able to:

<b>Course title:</b>	Advanced HP Insight Control Server Deployment Topics
<b>HP product number:</b>	HK759S
<b>Category/Subcategory:</b>	ProLiant
<b>Course length:</b>	2 days
<b>Level:</b>	Intermediate
<b>Delivery language:</b>	English
<b>To order:</b>	You can order this course online at <a href="http://www.hp.com/learn">http://www.hp.com/learn</a> . At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

- Discuss advanced deployment techniques involving HP Insight Control Server Deployment, such as scripting, multicasting, security, and automation environment
- Deploy Microsoft Hyper-V, create a Microsoft Windows Server virtual machine, and deploy Microsoft Windows Server 2008 to this virtual machine
- Deploy Microsoft SQL Server using HP Insight Control Server Deployment
- Create virtual computers and set up virtual bays within HP Insight Control Server Deployment
- Manage target servers with multiple partitions
- Deploy VMware ESX, create a Red Hat Enterprise Linux virtual machine, and deploy Red Hat Enterprise Linux to this virtual machine
- Deploy Red Hat Package Manager (RPM) using the Deployment Console

## Benefits to you

- Gain the knowledge on advanced HP Insight Control Server Deployment 6.2 topics such as deployment of Microsoft SQL Server, deployment of virtualization software, creation of multiple partitions, deployment of RPM packages, and others.
- Use the hands-on activities to deploy Microsoft Hyper-V, Microsoft SQL Server, VMware ESX, RPM packages, and multiple partitions

## Why education services from HP?

- Online instructor-led and self-paced training at <http://www.hp.com/learn>
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## Next steps

- HP Matrix Operating Environment: Infrastructure Administration (HK920S)
- Authorized VMware Training from HP - <http://www.hp.com/learn/vmware>

## Detailed course outline

### Module 0: Course Overview

- Explain what HP Insight Control Server Deployment is
- Position this course
- Familiarize yourselves with the course agenda
- List the student materials
- Describe the HPVL-based equipment and the entry point for accessing it
- Make introductions
- Familiarize yourselves with the HP Virtual Room

### Module 1: Advanced Deployment Techniques

- Describe the advanced imaging techniques that can be used with HP Insight Control Server Deployment software 6.2
- Explain the advanced scripting techniques
- Describe multicasting
- Explain how to configure security
- Describe how the automation environment is used in HP Insight Control Server Deployment software 6.2

### Module 2: Advanced Deployment Techniques and PXE Technology

- Describe the Preboot eXecution Environment (PXE) technology and its key benefits
- Explain how to configure HP servers for PXE deployment
- Name the alternatives to PXE and how to use them

#### Lab 0: Accessing the HPVL environment

- This lab verifies computer requirements and demonstrates how to access and use the HPVL environment.

#### Lab 1: Validating the environment

- You will determine whether all necessary components have been installed and properly configured on your deployment server. These necessary components include:
  - Certain Microsoft Windows Server services, roles and features
  - Additional software such as a Linux-compatible editor, Java Runtime and Virtual CloneDrive
  - HP Insight Control Server Deployment software and required operating system distribution files

#### Lab 2: Configuring HP Insight Control Server Deployment

- Configure the DHCP option for Microsoft Windows Server 2008
- Add deployment operating systems
- Configure PXE boot images
- Configure PXE to process new computers immediately
- Customize the Altiris client installation file
- Explore Microsoft IIS and FTP components within HP Insight Control Server Deployment
- Restart your target servers with the Integrated Remote Console and boot them from the PXE NIC

#### Lab 3: Deploying Microsoft Hyper-V with HP Insight Rapid Deployment Software

- Deploy a scripted Hyper-V Server 2008 R2 x64 installation to a Preboot Execution Environment (PXE) enabled server
- Enable Hyper-V Remote Management on the deployment server
- Manage Hyper-V server remotely
- Create a Microsoft Windows Server 2008 Enterprise Edition virtual machine
- Deploy a Windows Server 2008 Enterprise Edition operating system to the virtual machine

#### Lab 4: Deploying VMware ESX Server 4.1 Using Scripting

- Deploy VMware ESX Server 4.1 to a server enabled with PreBoot Execution Environment (PXE) using scripting
- Access and license the VMware server
- Build a Redhat Enterprise Server 5.5 virtual machine
- Customizing the unattended installation file for RHEL 5.5
- Deploy a RHEL guest to the virtual machine

### **Module 3: Using multiple partitions**

- Create multiple partitions using HP Insight Control Server Deployment software
- Deploy an operating system to a multiple partition target server using scripted install

### **Lab 5: Using the Deployment Console to Deploy Linux RPM Packages**

- Perform an RPM installation of Samba and FTP servers
- Set Samba and FTP to launch automatically during startup
- Enable the Samba and FTP services

### **Lab 6: HP Insight Control Server Deployment software and Multiple Partitions**

- Create multiple logical drives using HP Insight Control Server Deployment software
- Deploy Windows Server 2008 to a multiple partition target server
- Deploy Red Hat Linux 5.5 to a multiple partition target server
- Configure image installation jobs

### **Lab 7: Creating Virtual Computers in the Deployment Console**

- Create virtual computers
- Set up a pre-deployment job
- Set up virtual bays

### **Lab 8: Deploying Microsoft SQL Server 2008 R2**

- Configure the target server by installing Microsoft ASP.NET and Microsoft Internet Information Services (IIS)
- Install Microsoft SQL Server 2008 from the command line to generate a Datastore.xml file
- Build a custom installation template to use with HP Insight Control Server Deployment software 6.2
- Deploy an unattended installation of SQL Server 2008 using an .ini file

### **For more information**

To locate country contact information and to learn more about education services, please visit our worldwide web site at <http://www.hp.com/learn>.

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