



HP Education Services Course Overview

HP Insight Control Server Deployment Foundations (HE645S)

This 3-day course provides students with the knowledge and skills to effectively deploy Windows and Linux operating systems to HP ProLiant servers using the HP Insight Control Server Deployment software. By taking this course, the student will learn the basics of the HP Insight Control Server Deployment software and will gain practical skills from several hands-on labs

Audience

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

- Plan, implement, and manage a deployment environment based on HP Insight Control Server Deployment 7
- Perform basic HP Insight Control Server Deployment 7 tasks such as installation, configuration, and scripted and imaged deployment of Microsoft Windows, Red Hat Linux, and SuSE Linux

Prerequisites

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

- Introduction to HP Insight Control WBT(HK317AAE)
- Essentials for HP ProLiant (HE643S)
- 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

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:

- Describe the HP Insight Control Server Deployment software 7
- Describe the PXE technology
- Complete the pre-installation requirements
- Describe and perform installation of the HP Insight Control Server Deployment software 7

Course title:	HP Insight Control Server Deployment Foundations
HP product number:	HE645S
Category/Subcategory:	ProLiant
Course length:	3 days
Level:	Intermediate
Delivery language:	English
To order:	You can order this course online at http://www.hp.com/learn . At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

- Perform HP Insight Control Server Deployment 7 configuration
- Describe the Deployment Console
- Describe the scripted installation and imaging jobs
- Explain the role of deployment agents
- Deploy Microsoft Windows Server 2008 with scripting and imaging
- Demonstrate the use of conditional jobs and filters
- List and describe available support resources
- Deploy Red Hat Enterprise Linux with scripting and imaging
- Deploy SuSE Linux Enterprise Server with scripting and imaging

Benefits to you

- Gain the knowledge necessary to successfully plan, implement, and manage a deployment environment based on HP Insight Control Server Deployment 7
- Use the hands-on activities to perform basic HP Insight Control Server Deployment 7 tasks such as installation, configuration, and scripted and imaged deployment of Microsoft Windows, Red Hat Linux, and SuSE Linux

Why education services from HP?

- Online instructor-led and self-paced training at <http://www.hp.com/learn>
- State-of-the-art classroom facilities
- Hands-on practice
- More than 80 training locations worldwide
- Comprehensive student materials
- Focus on job-specific skills
- Customized on-site delivery
- Experienced and best-in-the-field HP instructors

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: Touring HP Insight Control Server Deployment

- Describe the benefits of the HP Insight Control Server Deployment
- Name what is new with HP Insight Control Server Deployment version 7
- Name the components of the HP Insight Control Server Deployment
- Describe the licensing and update options
- Explain how HP Insight Control Server Deployment and HP Systems Insight Manager provide a complete deployment and change management solution
- Explain how HP Insight Control Server Deployment supports the HP BladeSystem solutions

- Explain the relationship between HP Insight Control Server Deployment and Insight Control management software
- Name other HP server deployment tools and compare them with the HP Insight Control Server Deployment

Module 2: 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

Module 3: Installing and Configuring HP Insight Control Server Deployment

- Describe the hardware and software requirements for installing HP Insight Control Server Deployment
- Explain the process of installing HP Insight Control Server Deployment and upgrading from previous version
- Describe the configuration steps necessary to deploy an operating system to a server

Lab 1: Accessing the HPVL environment

- Verify your computer requirements
- Access the HP Virtual Lab equipment

Lab 2: 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

Lab 3: 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
- Enable and configure Microsoft Sysprep
- 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

Module 4: Using the Deployment Console

- Describe the features of the Deployment Console
- Name the tools available from the Deployment Console Tools menu
- List the remote operations available from the Deployment Console Operations menu

Module 5: Scripted Installation and Imaging Jobs

- Define jobs and tasks and explain how they are used
- Describe how HP Insight Control Server Deployment uses scripting for server deployment
- Describe how HP Insight Control Server Deployment uses imaging for server deployment
- Describe how to create conditional jobs and tasks
- Describe how to create custom filters

Module 6: Deployment Agents

- Identify the HP Insight Control Server Deployment agents for Windows and Linux
- Describe the tasks these agents perform
- Explain how to install and configure these agents

Lab 4: Deploying Microsoft Windows Server 2008 R2 x64 with Scripting

- Deploy Microsoft Windows Server 2008 R2 x64 with scripting
- Install the HP Service Pack for ProLiant (HP PSP)

Lab 5: Deploying Microsoft Windows Server 2008 R2 x64 with Sysprep Imaging

- Configure Microsoft System Preparation (Sysprep) settings
- Configure the Sysprep job script
- Capture the Sysprep image
- View an image using the Altiris ImageExplorer utility
- Deploy the Microsoft Windows Server 2008 R2 x64 Sysprep image

Module 7: HP Insight Control Server Deployment Support

- List the available documentation and online resources for HP Insight Control Server Deployment 7
- List the HP support and services available for HP Insight Control Server Deployment 7
- Identify some of the known issues with version 7 and describe how to remedy them
- Identify the PXE error codes and describe the reason for error

Lab 6: Deploying Red Hat Enterprise Linux 5.7 x64 with Scripting

- Deploy Red Hat Enterprise Linux 5.7 x64 with scripting
- Install the HP Service Pack for ProLiant (HP SPP) for Linux

Lab 7: Deploying Red Hat Enterprise Linux 5.7 x64 with Imaging

- Capture the deployed server blade image
- Replicate the captured operating system image

Lab 8: Deploying SUSE Linux Enterprise Server 11 x64 with Scripting

- Deploy SUSE Linux Enterprise Server 11 x64 using scripting
- Install HP Service Pack for ProLiant (HP SPP)

Lab 9: Deploying SUSE Linux Enterprise Server 11 x64 with Imaging

- Capture the deployed server blade image
- Replicate the captured operating system image

Optional - Lab 10: Using Conditional Jobs and Filters (Optional Labs)

- Create conditional jobs
- Create custom filters
- Deploy the Network Configuration Utility with conditional tasks

Appendix A: HP Service Pack for ProLiant

Appendix B: Introducing ProLiant Generation 8

Appendix C: HP Insight Control 7.1

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>.

