



# HP Education Services Course Overview

HP Insight Control: Management Master (HK757S)

This two-day course equips students with the skills and knowledge to configure and use several advanced features of HP Insight Control integrated management solution for physical and virtual servers. Students will spend the time learning about, installing, and configuring HP Insight Control to proactively manage system health through remote management tools. The course will focus on the integration of various options within HP Insight Control: power management, performance monitor, virtual machine management, and server migration.

## Audience

Administrators, engineers and consultants who will:

- Plan and manage the deployment of the HP Insight Control suite components
- Monitor and Manage network systems with HP Insight Control

## Prerequisites

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

- Introduction to HP Insight Control WBT (HK317AAE)
- Recommended completion of Introduction to HP ProLiant Servers (HE643S)
- HP Insight Control: Management Fundamentals (HK756S)

In addition, HP recommends that students are familiar with general networking terminology and basic network security concepts and have an understanding of at least one of the following operating systems:

- Microsoft Windows 2003 Standard, 2003 Enterprise Edition, 2008 R2 Standard Edition, 2008 R2 Enterprise Edition or Windows 7
- RedHat Enterprise Linux AS or RedHat Enterprise Linux ES
- SuSE Linux Enterprise Server

## Course objectives

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

- List the HP Insight Management 7.3 component updates

<b>Course title:</b>	HP Insight Control: Management Master
<b>HP product number:</b>	HK757S
<b>Category/Subcategory:</b>	ProLiant
<b>Course length:</b>	2 days
<b>Level:</b>	Intermediate
<b>Delivery language:</b>	English
<b>To order:</b>	In HK, please contact HP Education Services on (852) 3070-6692 or email at <a href="mailto:hp-education.hk@hp.com">hp-education.hk@hp.com</a> or visit <a href="http://www.hp.com.hk/education">www.hp.com.hk/education</a> Other countries please visit <a href="http://www.education.hp.com">www.education.hp.com</a>

- Describe the features and key concepts of HP Insight Control power management
- Describe and configure management and monitoring capabilities for Insight Control functions and list the steps involved in configuring them:
  - Power management
  - Performance management
  - Virtual machine management

-Server migration

## Benefits to you

- Gain the knowledge to successfully plan and deploy an enterprise-level HP Insight Control configuration
- Use the hands-on activities to become familiar with tools and interfaces along with procedures for efficient ongoing management of the implementation

## Why education services from HP?

- Unmatched technical expertise and support for HP products and technologies
- Comprehensive curriculum of job-specific training leading to vendor certification
- Top 20 training provider and content development – [www.TrainingIndustry.com](http://www.TrainingIndustry.com)
- Training you need, when and where you need it with our Remotely Assisted Instructional Learning (RAIL)
- Streamlined purchase and management of training with HP Care Pack Services for Education
- Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)
- Global training with more than 90 training locations worldwide
- More than 30 years of Education Consulting
- Award winning Virtual classrooms

## Next steps

- Virtualization training
- HP CloudSystem Matrix Administration (HK920S)
- Authorized VMware Training from HP – <http://www.hp.com/learn/vmware>

## Detailed course outline

### Module 1: Tour the Product

- List the Insight Management 7.3 component updates
- Identify the new features that are included with Insight Control 7.3
- Describe how features of the product can be used to manage systems
- Explain how HP SIM can be used to manage a system
- Describe the features and functions of OneView

### Lab 1: Configuring the Environment

- Prepare the VMware environment
- Access HP Systems Insight Manager (HP SIM)
- Run the First Time Wizard
- Create custom discovery ranges
- Run automatic or manual discovery tasks
- Configure Secure Shell (SSH) on a target server
- Use the Managed System Setup Wizard

### Module 2: HP Insight Control power management

- Describe the features and key concepts of HP Insight Control power management
  - o Power Regulator for ProLiant
  - o Dynamic Power Capping
  - o Data Center Power Control
  - o Intelligent Power Discovery
  - o Power Summary Meter
- Identify Insight Control power management options
- List the tasks to configure Insight Control power management

### Lab 2: Using HP Insight Control power management

- Describe the capabilities of HP integrated Lights-Out (iLO) power management 7.3
- Use HP Insight Control power management
- Use group power management

### Module 3: HP Insight Control performance management

- Describe the features and key concepts of HP Insight Control power management
- Power Regulator for ProLiant
- Dynamic Power Capping
- Data Center Power Control
- Intelligent Power Discovery
- Power Summary Meter
- Identify Insight Control power management options
- List the tasks to configure Insight Control power management

### Lab 3: HP Insight Control performance management

- Configure HP Insight Control performance management
- Monitor licensed servers with performance management
- Perform an offline analysis
- Perform an online analysis
- Run a performance management report

### Module 4: HP Insight Control virtual machine management

- Identify the new features of HP Insight Control virtual machine management (VMM)
- Explain general VMM concepts
- Describe HP SIM integration
- Install VMM
- Discuss the licensing options of VMM
- Use VMM
- Discuss VMM internal operations
- Troubleshoot VMM

### Module 5: HP Insight Control server migration

- Describe the features and benefits of HP Insight Control server migration
- Install Insight Control server migration

- Identify Insight Control server migration pre-migration tasks
- Identify Insight Control server migration post-migration tasks
- Troubleshoot Insight Control server migration
- Describe available service and support options

#### **Lab 4: HP Insight Control virtual machine management and server migration**

- Monitor a virtual machine (VM)
- Deploy a Microsoft Windows VM from an Open Virtualization Format (OVF) template
- Manage a VM
- Migrate VMs between platforms
  - o Install Microsoft Hyper-V Server 2012 R2
  - o Perform a virtual-to-virtual (V2V) migration
- Explain the differences between how VMs hosted on VMware ESX and Hyper-V are displayed and managed by HP Insight Control

#### **Appendix A: Introducing ProLiant Generation 8 Servers**

#### **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>.

