



HPE Insight Control: Management Fundamentals HK756S

HPE course number	HK756S
Course length	3 days
Delivery mode	ILT
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This 3-day course equips students with the skills and knowledge to install and configure HPE Insight Control integrated management solution for physical and virtual servers. Students will spend the time learning about, installing, and configuring HPE Insight Control to proactively manage system health through remote management tools. The course will also cover the integration of various options within HPE Systems Insight Manager (HPE SIM), including ProLiant Support Pack version control.

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

Audience

Administrators, engineers and consultants who will:

- Plan and manage the deployment of the HPE Systems Insight Manager and HPE Insight Control suite components
- Monitor and manage network systems with HPE SIM

Prerequisites

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

- Introduction to HPE Insight Control WBT (HK317AAE)
- Introduction to HPE ProLiant Servers (HE643S)

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

- Windows Server® 2008, Windows Server 2008 R2 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 HPE Insight Management 7.3 component updates
- Define systems management and list the tools that HPE provides to facilitate systems management functions
- Describe the features and functions of HPE Version Control Repository Manager (VCRM) and HPE Version Control Agent (VCA)
- Describe how to install and upgrade HPE Insight Control 7.3
- Configure Insight Management by using HPE Systems Insight Manager (HPE SIM)
- Provide an overview of HPE BladeSystem Integrated Manager
- Explain how tasks can be used to manage a remote system

- Explain how collections can be used to filter and organize systems
- Describe how tools are created and launched
- Identify how events are generated and managed
- Describe the process for accessing and managing reports
- Describe the audit logging feature
- Identify the storage management components of HPE SIM
- List the HPE SIM database management tasks
- Describe the components and use the management information base (MIB) importing and compiling tools in HPE SIM
- Explain the purpose of the Web-based Enterprise Management (WBEM) health polling plug-in
- Describe the function of the HPE analysis tools
- Describe the basics of troubleshooting Insight Management

Benefits to you

- Gain the knowledge to successfully plan and deploy an enterprise-level HPE 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

Detailed course outline

Module 1: Tour the product	<ul style="list-style-type: none"> List the HPE Insight Management 7.3 component updates Identify the new features that are included with HPE Insight Control 7.3 <ul style="list-style-type: none"> Describe how features of the product can be used to manage systems 	<ul style="list-style-type: none"> Explain how HPE SIM can be used to manage a system Describe the features and functions of HPE OneView
Lab 1: Navigating the environment	<ul style="list-style-type: none"> Navigate the HPE Virtual Lab (HPE vLabs) environment 	<ul style="list-style-type: none"> Perform initial configuration steps
Module 2: Systems management review	<ul style="list-style-type: none"> Define systems management and list its essential elements Describe the tools that HPE provides to facilitate systems management functions <ul style="list-style-type: none"> iLO SmartStart Service Pack for ProLiant 	<ul style="list-style-type: none"> HPE SUM Insight Management Agents Systems Management Homepage WBEM WMI Version Control
Module 3: Version control and software deployment	<ul style="list-style-type: none"> Describe the features and functions of VCRM Describe the features and functions of VCA List the requirements for installing VCA 	<ul style="list-style-type: none"> Explain how VCA and VCRM are integrated with: <ul style="list-style-type: none"> HPE SIM SMH
Lab 2: Using the version control repository	<ul style="list-style-type: none"> Install and populate HPE Version Control Repository Manager (VCRM) with Service Pack for ProLiant (SPP) Configure the Target Version Control Agent 	<ul style="list-style-type: none"> Manage the VCRM repository
Module 4: Typical installation	<ul style="list-style-type: none"> List the installation activities Locate the steps for installing HPE Insight Control on a Central Management Server (CMS) Explain when the WMI mapper is needed and how to configure it 	<ul style="list-style-type: none"> Describe how to upgrade a previous installation of HPE Systems Insight Manager List the steps to remove an HPE SIM installation
Module 5: Setup and configuration	<ul style="list-style-type: none"> Configure Insight Management by using HPE Systems Insight Manager (HPE SIM) Set global protocols to configure default, system-wide protocol settings 	<ul style="list-style-type: none"> Manage multiple systems and events
Lab 3: Configuring insight control	<ul style="list-style-type: none"> Access HPE Insight Control Run the First Time Wizard Create Insight Control discovery tasks Run discovery from Insight Control Navigate Insight Control Configure Insight Control system links Create HPE Systems Insight Manager (HPE SIM) users 	<ul style="list-style-type: none"> Configure automatic discovery settings View hardware status polling Create toolboxes Create authorizations Deploy a support pack with a task Install Secure Shell (SSH) on the target server Use the HPE Managed System Setup Wizard
Module 6: HPE BladeSystem integrated manager	<ul style="list-style-type: none"> Provide an overview of HPE BladeSystem integrated manager 	<ul style="list-style-type: none"> List the views in BladeSystem Integrated Manager
Lab 4: BladeSystem integrated manager	<ul style="list-style-type: none"> Explore HPE BladeSystem integrated manager Create a customized BladeSystem collection 	<ul style="list-style-type: none"> Configure Single-Sign On (SSO) for Onboard administrator (OA) modules
Module 7: Using tasks, collections, tools and events	<ul style="list-style-type: none"> Explain how tasks can be used to manage a remote system Explain how collections can be used to filter and organize systems 	<ul style="list-style-type: none"> Describe how tools are created and launched Identify how events are generated and managed
Lab 5: Using tasks, collections, tools and events	<ul style="list-style-type: none"> Create personal folders and collections View HPE Insight Control events Configure automatic event handling 	<ul style="list-style-type: none"> Use the Configure or Repair Agents task Use the Replicate Agent Settings task
Module 8: Reports	<ul style="list-style-type: none"> Describe the process for accessing reports Describe processes for managing reports 	<ul style="list-style-type: none"> Identify enhanced reporting capabilities

Module 9: Audit log	<ul style="list-style-type: none"> Describe the audit logging feature Access the audit log 	<ul style="list-style-type: none"> Manage the audit log List support resources
Lab 6: Using reports and audit logs	<ul style="list-style-type: none"> Run available reports in HPE Insight Control Create new reports Run enhanced reports 	<ul style="list-style-type: none"> Compare the snapshots of managed systems Run audit log reports
Module 10: Use and managing storage components	<ul style="list-style-type: none"> Identify the storage management components of HPE SIM Describe the information that is available using System pages Identify the collections that are available for organizing storage 	<ul style="list-style-type: none"> Understand the reporting functionality of storage components Identify the steps necessary for device discovery
Module 11: Database and MIBs	<ul style="list-style-type: none"> List the HPE SIM database management tasks Define the capabilities of the System Type Manager (STM) 	<ul style="list-style-type: none"> Describe the components and of use the management information bases (MIB) importing and compiling tools in HPE SIM
Lab 7: Managing the database	<ul style="list-style-type: none"> Manage system types Use the GUI to configure HPE Insight Control to identify third-party devices Configure Simple Network Management Protocol (SNMP) trap settings Use the CLI to upload and register a Management Information Base (MIB) 	<ul style="list-style-type: none"> Use the MIB updater to import updated MIBs to the central management server (CMS) Back up the Microsoft SQL Express database Restore a database
Module 12: HPE analysis tools	<ul style="list-style-type: none"> Explain the purpose of the Web-based Enterprise Management (WBEM) health polling plug-in Describe the function of each of the HPE analysis tools 	<ul style="list-style-type: none"> Describe the integration of the HPE analysis tools with HPE SIM
Module 13: Troubleshooting	<ul style="list-style-type: none"> Describe the basics of troubleshooting 	<ul style="list-style-type: none"> Identify solutions for many common HPE SIM problems
Appendix A: Introducing ProLiant Gen8 servers		
Lab—Appendix A: Troubleshooting (if time permits)	<ul style="list-style-type: none"> Troubleshoot: <ul style="list-style-type: none"> The HPE SIM CMS <ul style="list-style-type: none"> Security popups Unknown devices 	<ul style="list-style-type: none"> Trap reception Use Mail Exchanger (MX) commands to troubleshoot HPE SIM and managed systems Use the verbose mode to troubleshoot Secure Shell (SSH) connections
Lab—Appendix B: Installing HPE insight control (if time permits)	<ul style="list-style-type: none"> Run the Insight Management Advisor and resolve any issues discovered Install HPE insight control suite 	<ul style="list-style-type: none"> Configure an HPE System Insight Manager (HPE SIM) initial setup

Next steps

- HPE Insight Control: Management Master (HK757S)
- Virtualization training
- HPE BladeSystem Administration (HE646S)
- HPE CloudSystem Matrix: Administration (HK920S)

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