



HPE Capacity Advisor and Global Workload Manager HF869S

HPE course number	HF869S
Course length	5 days
Delivery mode	ILT
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This course supports HP-UX 11i v3 Virtual Server Operating Environment (OE), also known as HPE Matrix OE. HPE's advanced infrastructure management software lets you continuously analyze and optimize adaptive infrastructure. Use Systems Insight Manager, Virtualization Manager, Capacity Advisor, Global Workload Manager, Instant Capacity, Process Resource Manager, and more. See how the tools work together to manage systems and workloads. The course is 50 percent lecture and 50 percent hands-on labs using HPE servers.

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

- Experienced HP-UX system administrators

Prerequisites

- HP-UX System and Network Administration I (H3064S) and HP-UX System and Network Administration II (H3065S) or
- HP-UX System and Network Administration for Experienced UNIX® System Administrators (H5875S) or
- Equivalent system administration experience and
- HPE Systems Insight Manager (HK712S or HB508S)

Course objectives

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

- Describe the VSE components

- Install and configure VSE
- Use Virtualization Manager to view systems and workloads
- Use gWLM to manage workloads
- Use Capacity Advisor to perform systems capacity planning and VM consolidations
- Perform basic VSE troubleshooting

Benefits to you

- Quickly evaluate different scenarios for consolidating older and underutilized physical servers onto virtual machines
- See how you can more effectively manage the computing resources in your environment
- Gain an appreciation of all HP-UX VSE tools

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: Touring the Product	<ul style="list-style-type: none"> • HPE Virtual Server Environment (VSE) for Integrity servers • Partitioning continuum: the resource management spectrum • HPE VSE configuration and workload management • HPE VSE capacity planning • Logical server management • Integrity server management • HPE VSE infrastructure orchestration
Module 2: Design a Solution	<ul style="list-style-type: none"> • Choosing a Central Management Server (CMS) • Licensing • Windows® CMS installation requirements • HP-UX CMS installation requirements
Module 3: Installation, Setup, and Configuration	<ul style="list-style-type: none"> • ProLiant Windows CMS installation procedure • HP-UX CMS installation procedure • Post-installation steps • Managed system setup
Module 4: Using and Maintaining VSE	<ul style="list-style-type: none"> • Using the Virtualization Manager • VSE views • Configuring preferences • Compartment components • Virtualization Manager toolbar • Visualization view icons • Information and meter callouts
Module 5: Workloads	<ul style="list-style-type: none"> • Introduction to workloads • Workload types and sub-types • Creating workload definitions • Monitored and managed workloads
Module 6: Global Workload Manager (gWLM) Product Tour	<ul style="list-style-type: none"> • gWLM at a glance • gWLM interfaces and components • HPE Instant Capacity (iCAP) product tour • gWLM integration with Global Instant Capacity (GiCAP) • gWLM CMS and agent architecture
Module 7: Global Workload Manager Design a Solution	<ul style="list-style-type: none"> • Planning a gWLM implementation • CPU utilization targets • gWLM controllers • gWLM provisioning
Module 8: Global Workload Manager Use and Maintain	<ul style="list-style-type: none"> • Basic gWLM usage • Shared Resource Domain (SRD) • Common gWLM administrative tasks
Module 9: Global Workload Manager Advanced Topics	<ul style="list-style-type: none"> • GiCAP integration • iCAP Manager • Advanced topics • gWLM best practices
Module 10: Global Workload Manager Application Discovery	<ul style="list-style-type: none"> • Application Discovery overview and components • Using and managing Application Discovery • Procmmap scripts

Module 11: gWLM Service and Repair	<ul style="list-style-type: none"> • First pass gWLM troubleshooting • iCAP/TiCAP/GiCAP best practices • gWLM troubleshooting tips
Module 12: Capacity Advisor Product Tour	<ul style="list-style-type: none"> • Utilization and power planning • Utilization limits • HPE Smart Solver technology • 5-Star ratings • Capacity planning use cases
Module 13: Capacity Advisor Data Collection	<ul style="list-style-type: none"> • Using Capacity Advisor • Data collected and components • Capacity Advisor extension pack licenses
Module 14: Server Consolidation using Smart Solver	<ul style="list-style-type: none"> • Creating a scenario • Scenario-wide forecast • Forecast model hierarchy • Utilization limits • Consolidation legacy workloads to VMs • Consolidation results
Module 15: Server Consolidation with Power	<ul style="list-style-type: none"> • Power data collection • Creating the scenario • Adding utilization limits • Creating target servers • Moving workloads • Power usage and summary reports
Module 16: Capacity Advisor Reports	<ul style="list-style-type: none"> • Available reports • Selecting report details • Creating, browsing, and interpreting reports
Module 17: Capacity Advisor Service and Repair	<ul style="list-style-type: none"> • Troubleshooting overview • Initialization logs • Capcollect managed system checking • Tuning HPE SIM configuration parameters
Module 18: Capacity Advisor Command Line Interface	<ul style="list-style-type: none"> • capcollect and capprofile commands • Generating Capacity Advisor reports • Importing data into Capacity Advisor
Module 19: VSE Troubleshooting Overview	<ul style="list-style-type: none"> • VSE troubleshooting overview • VSE Assist • WBEM troubleshooting • Other HPE SIM troubleshooting
Module 20: Partitioning Management Tools	<ul style="list-style-type: none"> • Partition management • Workload Manager • Pay per use • PSETs • Process Resource Manager • Secure resource partitions

Next steps

- HPE Integrity Cell-Based Server Administration (U5075S)

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