



## HP Education Services Course Overview

Advanced Integration and Management of HP Server Solutions  
(HH708S\_00604564)

This course focuses on advanced topics such as scripting, performance planning and tuning, advanced troubleshooting, virtualization and clustered environments. This class will focus on HP Server Solutions in the Enterprise and how these solutions address real problems that customers are facing today. Topics presented include using customized scripts to automate infrastructure deployments, and practices used to migrate from one server platform to another. Also covers high-level technologies like Infiniband and Virtual Connect Enterprise Manager as well as the HP Matrix Operating Environment.

### Audience

- HP Solution Architect
- HP Authorized Reseller Partners
- HP Technical Client Consultants
- HP Field Presales & Competency Center Solution Architects

### Certifications and Related Examinations:

- HP ASE –Server Solutions Integrator V8
- HPO-S33

### Course objectives

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

- Describe HP ProLiant Gen8 product features
- Describe the BladeSystem portfolio and supported operating systems
- Identify management and deployment tools
- Describe HP services portfolio
- Describe the products in the HP storage portfolio
- Identify current InfiniBand products offered by HP
- Describe the HP Virtual Connect portfolio and the basic Virtual Connect technology
- Describe HP deployment solutions:

<b>Course title:</b>	Advanced Integration and Management of HP Server Solutions
<b>HP product number:</b>	HH708S_00604564
<b>Category/Subcategory:</b>	ProLiant
<b>Course length:</b>	5 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.

- Explain advanced imaging techniques
- Explain the HP approach to virtualization
- Describe Insight Control extensions
- Identify the types of HP ProLiant clustering solutions

- Describe the tasks required to develop a solution integration plan
- Explain how HP ProLiant Generation 8 (Gen8) servers increase application performance
- Identify and use performance measurement tools

## Why education services from HP?

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- More than 80 training locations worldwide
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- Hands-on practice
- Comprehensive student materials

## Next steps

- Implementing HP StorageWorks Enterprise Virtual Array Solutions v.9.21(#00110364/HH705).

## Detailed course outline

### Module 1: HP ProLiant Portfolio Introduction

- Describe HP ProLiant Gen8 product features
  - Describe the ProLiant Gen8 rack- and tower-mounted server portfolio
  - Identify the components of the HP BladeSystem portfolio
  - Describe the BladeSystem portfolio and supported operating systems
- List the tools used to manage and deploy ProLiant Gen8 servers
- Describe HP CloudSystem Matrix

### Module 2: HP Storage Solutions

- Describe HP storage solutions
  - HP 3PAR storage systems
  - HP EVA products and technology
  - HP SAN solutions
  - HP disk storage solution
  - HP Smart Storage

### Module 3: InfiniBand Connectivity

- Describe InfiniBand technology
- Identify current InfiniBand products offered by HP
- Explain InfiniBand subnet managers

### Module 4: Virtual Connect Technology

- Explain the features and functions of HP FlexNetwork and FlexFabric
- Describe the HP Virtual Connect portfolio and the basic Virtual Connect technology
- Plan and implement a Virtual Connect environment
- Configure a Virtual Connect module
- Manage a Virtual Connect domain

### Module 5: Virtual Connect Enterprise Manager

- Explain how to install and configure HP VCEM
- Explain how to implement the advanced settings of Virtual Connect domains and networks
- Explain how to use the VCEM CLI

### Module 6: Deployment Techniques and Solutions

- Describe Matrix OE
- Describe HP Intelligent Provisioning
- Describe HP Scripting Toolkit

### Module 7: Advanced Virtualization Options

- Explain the HP approach to virtualization
- Describe Insight Control extensions
  - Microsoft products
  - VMware
  - Citrix XenServer

### Module 8: High-Availability Clusters and Disaster Recovery Solution

- Describe high availability and name its different levels
- List the advantages and goals of basic high-availability cluster planning
- Identify the types of ProLiant clustering solutions
- Explain the technologies used in Windows Clustering Services
- Describe VMware HA and DRS clusters
- Explain how to configure clustering with storage virtualization

### Module 9: Integrating the Solution

- Describe the tasks required to develop a solution integration plan
  - Conduct a needs analysis
  - Conduct a site survey
  - Apply collected data
- Name the tools available from HP for selecting solution components
- Identify HP Service options

### Module 10: Performance Planning and Bottleneck Detection

- Explain how ProLiant Gen8 servers increase application performance
- Explain how to detect and remove a bottleneck
- Discuss bottlenecks in system components
  - Processors
  - Memory
  - Disk subsystem
  - Network performance
- Identify and use performance measurement tools

## 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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