



Architecting HPE Server Solutions HH734S

This course teaches expert level HPE Server technologies.

Topics include:

- HPE ProLiant Rack Servers
- HPE BladeSystem Servers (multi-enclosure)
- HPE Synergy (multi-frame)
- HPE Apollo (introduction)
- Management Tools
- Planning and Designing Tools

Architecting HPE Server Solutions

Price USD \$2,400

Links to local schedules, pricing and [US/Canada](#)
[Mexico/Latin America](#)
[Brazil](#)

HP course # HH734S

Category ProLiant

Duration 3 days

Special note

This course is same as GPE Partner Training Course “Architecting HPE Server Solutions, Rev. 16.31” (SABA ID= 01069718). This course prepares students for GPE Exam HPE0-S46 and GPE Certification HPE ASE - Server Solutions Architect V3.

Audience

- Typical candidates for this course are: Consultants, Pre-sales Engineers, Sales Engineers, System Engineers, Solution Architects.

Prerequisites

- For complete prerequisites and requirements to achieve any of the related certifications or upgrade paths, see the certification description on the HPE Certification and Learning website.

Course objectives

After completing this course, you should be able to do the following:

- Describe HPE server technologies
- Identify HPE products and add-ons
- Describe HPE market positions
- Explain how HPE servers meet data center challenges
- Explain how HPE servers are managed

Course outline

Module 1: HPE in the New Compute Era

- Summarize the Hewlett Packard Enterprise (HPE) Transformation Areas
- Explain how server trends present challenges and opportunities for enterprise businesses
- Provide a high-level overview of HPE ProLiant Gen9 server innovations
- Name the features of an HPE Converged Infrastructure
- Outline the HPE position and market share in the server solutions industry
- Position HPE Technology Services in the new compute era

Module 2: HPE Converged Management

- Explain the Hewlett Packard Enterprise (HPE) approach to converged management for the infrastructure lifecycle
- Name the on-system tools used to manage an HPE ProLiant system
 - Unified Extensible Firmware Interface (UEFI)
 - HPE representational state transfer (REST) application programming interface (API) and HPE RESTful Interface Tool
 - HPE Intelligent Provisioning
 - HPE integrated Lights-Out (iLO) 4
 - HPE Smart Update Manager (HPE SUM)
 - HPE Service Pack for ProLiant (SPP)
 - Agentless management
 - Smart Storage Administrator (SSA)
- Explain how to perform on-premise management with HPE OneView
- Explain how to perform remote management with on-cloud management tools:
 - HPE Insight Online
 - HPE Insight Remote Support

Module 3: Server Technologies

- Provide a high-level overview of technologies in the Hewlett Packard Enterprise (HPE) ProLiant Gen9 server portfolio
- Describe the features of HPE servers in the following areas:
 - Processors
 - Memory
 - Storage
 - Networking

Module 4: HPE Rack Server Solutions

- Describe Hewlett Packard Enterprise (HPE) ProLiant DL rack-mounted server models and the workloads they target
- Name the HPE options for ProLiant Gen9 DL servers
- Describe the power and cooling features and options available for HPE rack-mounted servers
- Explain how to use HPE QuickSpecs

Module 5: HPE BladeSystem Server Solutions

- Select the operating environment
- Select the BladeSystem enclosure
- Select the interconnects and adapters
- Select the server blades
- Select the storage infrastructure
- Select the infrastructure management
- Select the power and cooling configurations
- Select the services

Module 6: Density Optimized Solutions

- Explain why high-performance computing (HPC) is important
- Describe the features and functions of Hewlett Packard Enterprise (HPE) Apollo systems
- Discuss the management options available for HPE Apollo solutions

Module 7: HPE Synergy Solutions

- Describe Hewlett Packard Enterprise (HPE) Synergy in the context of current Composable Infrastructure trends
- Discuss possible Synergy customer use cases
- List the steps to configure a Synergy solution

Module 8: Planning and Designing HPE Server Solutions

- Describe how to assess each customer's requirements and environment in order to develop a Hewlett Packard Enterprise (HPE) server solution, including how to perform:
 - Needs analyses
 - Requirements, segment, and workloads analyses
 - Site surveys
- Name the design considerations that should be taken into account when planning server solutions
- Identify the HPE tools that can be used to select solution components when designing a solution
- Explain how to use the return on investment (ROI) and total cost of ownership (TCO) tools available from HPE
- Describe the process of developing solution proposals

Module 9: Managing the Server Infrastructure

- Describe features of HPE Insight Control server provisioning (ICsp)
- Explain the options available for remote support from HPE
- Describe the functions of HPE Insight Online in the HPE Support Center
 - Insight Online: My IT Environment
 - Insight Online: My Customer

Learn more at

hpe.com/us/training/proliant