



Architecting HPE's Server Solutions

HH734S (01069718)

HPE course number HH734S

Course length 3 days

Delivery modes ILT, VILT

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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

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

Typical candidates for this course are Consultants, Pre-sales Engineers, Sales Engineers, System Engineers, and 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

Detailed course outline

Module 1: HPE in the new compute era

- Summarize the Hewlett Packard Enterprise's 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
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Module 2: HPE converged management

- Explain the Hewlett Packard Enterprise's 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 4 (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
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Module 3: Server technologies

- Provide a high-level overview of technologies in the HPE ProLiant Gen9 server portfolio
 - Describe the features of HPE servers in the following areas:
 - Processors
 - Memory
 - Storage
 - Networking
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Module 4: HPE Rack server solutions

- Describe 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's QuickSpecs
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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
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Course data sheet

Module 6: Density optimized solutions

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

Module 7: HPE Synergy solutions

- Describe 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 HPE's 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
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