



# Architecting HPE Server Solutions Rev 16.31 HH734S (01069718)

<b>HPE course number</b>	HH734S
<b>Course length</b>	3 days
<b>Delivery modes</b>	ILT, VILT
<b>View schedule, local pricing, and register</b>	<a href="#">View now</a>
<b>WW Portfolio</b>	<a href="#">View now</a>

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

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### 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
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### 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 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 Hewlett Packard Enterprise (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 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
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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

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### 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

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### 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

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### 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

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### 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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