

# Building HPE Hybrid IT Solutions, Rev. 18.41 (01120590) H6LJ6S

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| <b>HPE course number</b>                          | H6LJ6S                   |
| <b>Course length</b>                              | 5 Days                   |
| <b>Delivery mode</b>                              | ILT, VILT                |
| <b>View schedule, local pricing, and register</b> | <a href="#">View now</a> |
| <b>View related courses</b>                       | <a href="#">View now</a> |

This course is designed to expose participants to the fundamental principles required to architect data center solutions. It will focus on HPE networking, server, and storage solutions for SMB customers. Through the use of customer scenarios and extensive hands on labs, participants will learn how to set up and configure a small data center to meet customer requirements.

## Why HPE Education Services?

- IDC MarketScape leader 5 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 SUSE
- 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 IT, facilities or data center professionals who work in and around the data center, and who have the responsibility to achieve and improve the availability and manageability of the data center. Typical candidate job roles include, but are not limited to, Pre-sales Architects, Pre-sales Engineers, Enterprise Architects, Solutions Engineers, and Technology Architects

## Prerequisites

- Suggested WBT: Designing HPE SMB Data Center Architectures (01114481)

## Course objectives

After you successfully complete this course, expect to be able to:

- Summarize the various Hewlett Packard Enterprise (HPE) server, storage and networking solutions that are ideal for small to medium-sized business (SMB) customers

- Guide customers to HPE SMB storage solutions that are appropriate for their needs
- Recommend HPE SMB networking solutions for various customer workloads
- Name HPE data center infrastructure services to benefit SMBs
- Plan a Hewlett Packard Enterprise (HPE) solution for a small to medium-sized business (SMB) customer
- Select a server to meet an SMB customer's needs
- Recommend a storage configuration that aligns with an SMB customer's workload and data center infrastructure
- Choose a network based on an SMB customer's existing environment, resources, and workloads
- Validate the design and document the customer's solution

- Install and configure Hewlett Packard Enterprise (HPE) data center solutions and subsystems for small to medium-sized businesses (SMBs)
  - Servers
  - Storage
  - Networking
- Validate that an installation and configuration are successful
- Upgrade an HPE IT solution and its subsystems
- Manage and monitor data systems
- Administer and assess storage in data centers
- Evaluate networking solutions Summarize the basic approach to troubleshooting
- Recall the steps included in the Hewlett Packard Enterprise (HPE) six-step troubleshooting methodology
- List additional methods and tools used in troubleshooting efforts
- Describe recommended solutions to common problems involving:
  - HPE servers
  - HPE storage
  - HPE networks

### **Certifications and related examinations**

- HPE ATP - Hybrid IT Solutions V1
- HPE0-S56: Building HPE Hybrid IT Solutions

## Detailed course outline

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|---|---|---|
| <b>Module 1: Recommending HPE SMB Solutions for Customer Use Case</b>                             | <ul style="list-style-type: none"> <li>• Learning objectives</li> <li>• Customer scenario</li> <li>• HPE SMB server, storage, and networking solutions</li> <li>• Mapping HPE server solutions to customer workloads based on business size</li> </ul>      | <ul style="list-style-type: none"> <li>• Mapping HPE storage solutions to customer requirements</li> <li>• Recommending HPE networking for SMBs</li> <li>• Recommending HPE data center infrastructure services</li> </ul>                      |
| <b>Module 2: Planning and Designing HPE SMB Solutions</b>   | <ul style="list-style-type: none"> <li>• Learning objectives</li> <li>• Customer scenario</li> <li>• Planning and designing an HPE SMB data center</li> <li>• Choosing a server</li> </ul>  | <ul style="list-style-type: none"> <li>• Choosing a storage solution</li> <li>• Designing the network</li> <li>• Additional infrastructure considerations</li> <li>• Validating the design and documenting the solution</li> </ul>              |
| <b>Module 3: Installing, Configuring, and Upgrading HPE SMB Solutions and Related Components</b>  | <ul style="list-style-type: none"> <li>• Learning objectives</li> <li>• Customer scenario</li> <li>• Installing solutions and subsystems</li> <li>• Configuring ProLiant servers</li> </ul>   | <ul style="list-style-type: none"> <li>• Configuring HPE storage</li> <li>• Configuring the network</li> <li>• Validating that an installation and configuration are successful</li> <li>• Upgrading the solution and its subsystems</li> </ul> |
| <b>Module 4: Managing, Monitoring, Administering, and Operating HPE SMB Solutions and Related</b> | <ul style="list-style-type: none"> <li>• Learning objectives</li> <li>• Customer scenario</li> <li>• HPE management and administration tools</li> </ul>   | <ul style="list-style-type: none"> <li>• Managing and monitoring storage</li> <li>• Managing and monitoring the network</li> </ul>  |
| <b>Module 5: Troubleshooting HPE SMB Solutions</b>  | <ul style="list-style-type: none"> <li>• Learning objectives</li> <li>• Customer scenario</li> <li>• Introduction to troubleshooting</li> <li>• HPE six-step troubleshooting methodology</li> <li>• Additional troubleshooting methods and tools</li> </ul> | <ul style="list-style-type: none"> <li>• Troubleshooting HPE ProLiant servers</li> <li>• Troubleshooting HPE storage</li> <li>• Troubleshooting the network</li> </ul>  |

## Detailed lab outline

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|---|---|--|
| <b>Lab 1: Getting Started with HPE Networking</b>       | <ul style="list-style-type: none"> <li>• Exercise 1—Connecting to the switches</li> <li>• Exercise 2—Configuring the switch name</li> <li>• Exercise 3—IRF configuration</li> </ul> | <ul style="list-style-type: none"> <li>• Exercise 4—Configuring the ports, VLANs, and IP addresses</li> <li>• Exercise 5—Configuring the remaining ports, VLANs, and IP addresses</li> </ul> |
| <b>Lab 2: Getting Started with HPE ProLiant Servers</b> | <ul style="list-style-type: none"> <li>• Exercise 1—Configuring iLO by using the web-based GUI</li> <li>• Exercise 2—Configuring iLO by using the CLI</li> </ul>                    | <ul style="list-style-type: none"> <li>• Exercise 3—Using UEFI system management</li> </ul>  |
| <b>Lab 3: Deploying HPE ProLiant Servers</b>            | <ul style="list-style-type: none"> <li>• Exercise 1—Configuring local storage</li> </ul>  | <ul style="list-style-type: none"> <li>• Exercise 2—Deploying an operating system with Intelligent Provisioning</li> </ul>   |
| <b>Lab 4: Getting Started with HPE Storage</b>          | <ul style="list-style-type: none"> <li>• Exercise 1—Configuring SAN zoning</li> <li>• Exercise 2—Basic MSA 2050 settings</li> </ul>   | <ul style="list-style-type: none"> <li>• Exercise 3—Configuring MSA 2050 Storage</li> </ul>  |
| <b>Lab 5: Managing HPE Storage</b>                      | <ul style="list-style-type: none"> <li>• Exercise 1—Configuring a VMware datastore</li> </ul>   | <ul style="list-style-type: none"> <li>• Exercise 2—Deploying and configuring StoreOnce VSA</li> </ul>   |
| <b>Lab 6: Managing HPE Networking</b>                   | <ul style="list-style-type: none"> <li>• Exercise 1—Configuring remote access to the switch</li> </ul>  | <ul style="list-style-type: none"> <li>• Exercise 2—Configuring user-based access (SSH) to the switch</li> </ul>   |

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