

Advanced HPE Storage Solutions, Rev. 25.11

Course description

This 5-day course teaches you to identify, recommend, and explain HPE Storage solution architectures and technologies for complex and multi-site solutions. You will learn how to plan, design, administer, and operate complex HPE Storage solutions. The course includes lectures and lab activities in a ratio of approximately 50/50 (lectures/activities).

Updates to this course and the written exam (HPE7-M02) are live since March 3, 2025. The HPE1-H03 practical exam, lab demonstration videos, and self-directed lab do not include these updates. See [Release Notes](#).

Ideal candidate for this course

Typical candidates for this course are HPE partners, customers, and team members who interpret customer requirements to design, install, configure, and manage advanced HPE Storage and backup solutions. Roles that will benefit from this course are:

- Sales Consultants
- Technical Consultants
- Sales Engineers
- Systems Engineers
- Presales Engineers

Suggested prerequisites

HPE Storage Solutions, Rev. 24.21 completion.

Topics

• Understanding Customer Needs and Storage Workloads

Position and describe the HPE Storage portfolio, and determine which solution you should recommend to your customer:

- HPE Morpheus
- HPE VM Essentials
- HPE Private Cloud Enterprise
- HPE GreenLake for File Storage
- HPE GreenLake for VCF
- HPE GreenLake for Microsoft Azure Stack HCI
- HPE GreenLake for RedHat OpenShift Container Platform
- HPE GreenLake for Private Cloud Business Edition
- HPE GreenLake for SAP HANA
- HPE GreenLake for Databases
- HPE Alletra Storage MP B10000
- HPE Alletra Storage MP X10000
- HPE Alletra Storage Server 4000 family
- HPE Cray ClusterStor E1000
- HPE SimpliVity
- HPE Apollo 4000
- HPE SimpliVity
- HPE StoreOnce
- HPE Zerto
- HPE Solutions with Qumulo
- HPE Solutions with Commvault
- HPE Solutions with Veeam

Course ID	0001207681
Course format, Typical duration	Select one: ILT – Instructor Led, 5 days VILT – Virtual Instructor Led, 5 days
Skill level	Advanced (ADV)
Delivery languages	English
Lab required	Yes
Related certifications	<ul style="list-style-type: none"> • HPE Master ASE – Storage Solutions • HPE ASE – Storage Solutions • HPE ATP – Hybrid Cloud
In preparation for these exams	Selected items from this course are included in these exams: <ul style="list-style-type: none"> • Advanced HPE Storage Solutions • Advanced HPE Storage Solutions Written Exam

[Register for this course.](#)

Find this course offering in the Training calendar. Click “Register” to take the course in The Learning Center. Login and Password required.

- HPE Solutions with Weka

Position and describe the HPE Data Protection portfolio, and determine which solution you should recommend to your customer:

- HPE Zerto
- HPE Alletra Storage MP X10000
- HPE StoreOnce
- HPE Alletra Storage Server 4000
- HPE Alletra Storage 5000
- HPE Solutions with Qumulo
- HPE Solutions with Commvault
- HPE Solutions with Veeam
- HPE Solutions with Scality

- **Protecting Workloads with Replication**

Recommend vVol technology and support for remote replication, and demonstrate vVol integrations:

- vVol replication

Implement and describe the key features and advantages of HPE Alletra Storage MP B10000 replication:

- HPE Remote Copy
- Synchronous and asynchronous periodic replication
- Synchronous long distance
- Remote copy operations

- **Achieving high availability with Peer Persistence**

Recommend and describe the key features, benefits, and advantages of HPE Alletra Storage MP B10000 Peer Persistence, including:

- Quorum Witness details
- Peer Persistence failover scenarios
- HPE 3DC Peer Persistence

- **File and Object storage solutions**

Describe the current market, and position the HPE file and object storage portfolio:

- HPE Solutions with Scality
- HPE Solutions with Weka
- HPE Solutions with Qumulo
- HPE Alletra Storage MP X10000
- HPE Ezmeral Data Fabric
- HPE GreenLake for File Storage
- HPE Cray ClusterStor E1000
- HPE Cray Storage Systems C500

Evaluate and describe HPE GreenLake for File Storage, including:

- Architecture and building blocks
- Data structure and data paths
- Capacity
- Data resiliency and protection
- Management

Assess and explain the HPE Alletra Storage MP X10000:

- Architecture
- Differentiators and benefits
- Use cases and workloads

Differentiate and recommend the HPE Alletra 4000 Storage Server and HPE Apollo 4000 Data Storage Server platforms used for SDS solutions:

- Portfolio
- Differentiators and benefits
- Use cases and workloads
- Consumption options

Differentiate and recommend products and features of SDS solutions, including HPE Solutions with Cohesity, Qumulo, and Scality:

- HPE Solutions with Scality
- HPE Solutions with Cohesity
- HPE Solutions with Qumulo

- **Planning multisite backups with StoreOnce**

Summarize how third-party applications can be integrated with HPE StoreOnce Catalyst Store

- Support matrix

Describe and recommend VTL/NAS Replication and Catalyst Copy solutions as well as disaster recovery scenarios

Differentiate and explain the HPE StoreOnce Cloud integrations:

- HPE Cloud Bank Storage
- HPE StoreOnce VSA in Azure

- **Integrating data protection and HPE solutions**

Differentiate and recommend the protection options of HPE Zerto:

- Differentiators and benefits
- Zerto components
- Architecture
- Cyber Resilience Vault

Compare and recommend Veeam integrations with HPE Storage arrays and HPE StoreOnce:

- Instant VM recovery
- Snapshots
- Replication
- Architecture
- SureBackup
- Catalyst Copy
- Data Immutability
- Licensing

- **Working with Containers**

List and discuss HPE Storage solutions for containers with a focus on Kubernetes:

- HPE Alletra Storage
- HCI
- Other HPE platforms for Kubernetes
- Integrations
- Private cloud options
- Container protection with Kasten K10

Recommend HPE GreenLake for containers, and describe its benefits

Describe the general concepts and benefits of Morpheus software:

- HPE Morpheus architecture
- Provisioning instances
- Installation and configuration options

- **Planning multisite networking**

List and explain SAN extension options and associated technologies:

- ISL bandwidth aggregation
- SAN extension protocols
- FC-FC routing
- Fabric partitioning
- SAN security

- **Moving data Between Systems**

• Ask your customer appropriate questions about their impending storage migration, and discuss data migration concepts:

- Migrating to HPE Alletra Storage MP B10000
- Compare and recommend data migration options available for HPE Storage owners, including:
 - HPE Peer Motion and Online Imports
 - Zerto Move
 - HPE Data Storage Services – Data Migration
- Ask your customer appropriate questions about their impending storage migration, and discuss data migration concepts
- Compare and recommend data migration options available for HPE Storage owners

- **Planning and designing storage elements of an HPE solution**

Locate and examine HPE assessment resources, sizing resources, and tools:

- HPE Networking Switch Selector tool
- HPE Ninja Online
- HPE AI Sizer
- HPE GreenLake for File Storage site survey
- HPE SAF
- HPE NinjaStars
- HPE PoC generator
- NinjaProtected+
- DD Analyzer
- HPE One Config Advanced

Plan and design storage, backup, and SAN solutions:

- HPE Alletra Storage MP B10000
- Resiliency and availability options

Summarize the architecting methodology and the financial aspects of a deal:

- HPE Timeless and StoreMore
- Effective capacity sizing
- Install base right sizing
- Remediation
- Sizing optimization
- Best practices for performance sizing
- Tips for using HPE CloudPhysics or SAF
- Competitive RFP responses
- Competitive performance sizing
- Examples of successful deals

Objectives

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

- Position and describe the HPE Storage and data protection portfolios, and determine which solution you should recommend to your customer
- Recommend vVol technology and support for remote replication, and demonstrate vVol integrations
- Implement and describe the key features and advantages of HPE Alletra Storage MP B10000 replication
- Recommend and describe the key features, benefits, and advantages of HPE Alletra Storage MP B10000 Peer Persistence
- Describe the current market, and position the HPE and HPE partner file and object storage portfolio
- Evaluate and describe HPE GreenLake for File Storage as well as HPE Alletra Storage MP X10000
- Summarize how third-party applications can be integrated with HPE StoreOnce Catalyst Store
- Describe and recommend VTL/NAS Replication and Catalyst Copy solutions as well as disaster recovery scenarios
- Differentiate and explain HPE StoreOnce Cloud integrations
- Summarize the HPE GreenLake for Backup and Recovery service
- Differentiate and recommend protection options of HPE GreenLake for Disaster Recovery and Zerto including Zerto Cyber Resilience Vault
- Compare and recommend Veeam integrations with HPE Storage arrays and HPE StoreOnce
- List and discuss HPE Storage solutions for containers with a focus on Kubernetes
- Recommend HPE GreenLake for containers, and describe its benefits
- Distinguish and recommend SAN extension options and associated technologies
- Ask your customer appropriate questions about their impending storage migration, and discuss HPE data migration concepts
- Compare and recommend HPE data migration options available for HPE Storage owners
- Summarize the architecting methodology and the financial aspects of a deal
- Locate and examine HPE assessment resources, sizing resources, and tools
- Plan and design storage, backup, and SAN solutions

How to register

Click on this link to register for this course: <https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=0001207681>

Policies, fees and cancellations

Course fees may vary. Fees are established and collected by the training center that delivers the course. Cancellation fees may apply. Contact your HPE Authorized Training Partner for their respective policies.

For more information

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