

Advanced HPE Storage Solutions, Rev. 25.11 (0001207681)

H61M4S

Course ID	H61M4S
Duration	5 days
Format	ILT/VILT
Schedule, pricing & registration	View now
Browse related courses	View now

This course teaches students how to identify, recommend, and explain HPE Storage solution architectures and technologies for complex and multi-site solutions. It also covers how to plan, design, administer, and operate complex HPE Storage solutions. Students learn how to plan, design, administer, and operate complex HPE Storage solutions. This course is comprised of approximately 50% lecture and 50% labs and hands-on exercises.

Audience

This course is ideal for HPE partners, customers, and employees who interpret customer requirements to design, install, configure, and manage advanced HPE Storage and backup solutions.

Prerequisites

Before attending this course, you should have completed the HPE Storage Solutions (H61M3S) course.

Course objectives

After completing this course, you should 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

5 reasons to choose HPE as your training partner

1. Learn HPE and in-demand IT industry technologies from expert instructors.
2. Build career-advancing power skills.
3. Enjoy personalized learning journeys aligned to your company's needs.
4. Choose how you learn: [in person](#), [virtually](#), or [on demand](#)—anytime, anywhere.
5. Sharpen your skills with access to real environments in [virtual labs](#).

Explore our simplified purchase options, including [HPE Education Learning Credits](#).

Detailed course outline

Module 1: 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 Apollo 4000
- HPE SimpliVity
- HPE StoreOnce
- HPE Zerto
- HPE Solutions with Qumulo
- HPE Solutions with Commvault
- HPE Solutions with Veeam
- 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

Module 2: 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

Module 3: 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

Module 4: 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
 - PE Solutions with Qumulo



Module 5: 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

Module 6: 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

Module 7: 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

Module 8: 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

Module 9: 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



Module 10: 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
-

Learn more at

hpe.com/ww/learnstorage

Follow us:

