

# H61M4S

## Advanced HPE Storage Solutions, Rev. 22.11

The Advanced HPE Storage Solutions course is 30% lectures and 70% activities. Activities include exercises using tools from sources such as the HPE Partner Portal, and exercises using real hardware. Hands-on lab exercises are performed using resources hosted by the HPE Partner Ready lab team.

### Kursinhalt

The purpose of the course is to teach the candidate how to:

- Discuss customer needs and storage workloads
- Protect virtualization workloads with remote replication
- Achieve high availability of database workloads with Peer Persistence
- Plan multisite backups with HPE StoreOnce
- Integrate HPE Recovery Manager Central (RMC)
- Integrate Veeam and HPE solutions
- Work with HPE Cloud Volumes and containers
- Plan multi-site networking
- Move data between systems

### Zielgruppe

The ideal candidate for this course is anyone who needs to learn how to describe, position, recommend, demonstrate, plan, and design advanced HPE storage solutions to meet a customer's business and technology requirements. Typical candidates for this course are:

- Consultants
- Presales engineers
- Sales engineers
- Systems engineers
- Solutions architects

### Voraussetzungen

There are no prerequisites for this class

### Kursziel

This course helps prepare candidates for HPE1-H03 – Advanced HPE Storage Solutions exam and the HPE5-H52 delta exam.

### Dieser Kurs im Web



Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: [www.experteach.ch/go/H64S](http://www.experteach.ch/go/H64S)

### Vormerkung

Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

### Garantierte Kurstermine

Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

### Ihr Kurs maßgeschneidert

Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Stand 21.04.2024

Training		Preise zzgl. MwSt.
Termine in der Schweiz	5 Tage	
Online Training	5 Tage	CHF 4.175,-
Termin/Kursort	Kurssprache Englisch 	
05.08.-09.08.24 <input type="checkbox"/> Online	16.09.-20.09.24 <input type="checkbox"/> Online	



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## H61M4S – Advanced HPE Storage Solutions, Rev. 22.11

### Module 0: Course Overview and Introduction

- Describe the purpose and content of the HPE Advanced Storage Solutions course
- Discuss the exam preparation checklist

### Module 1: Understanding Customer Needs and Storage Workloads

- Customer scenario
- Workload to product(s) mapping
- Activity: Analyzing customer requirements
- Positioning the HPE storage portfolio
- Positioning the HPE data protection portfolio

### Module 2: Protecting Virtualization Workloads with Remote Replication

- Customer scenario
- Activity: HPE reference architecture for SAP HANA in a virtualized environment
- Solution building blocks
- vVols
- HPE 3PAR/HPE Primera/HPE Alletra Remote Copy
  - Replication modes
- Activity: HPE Primera Remote Copy support verification
- Remote Copy topologies
- Remote Copy operations
- HPE Nimble SmartReplicate
  - How replication works
- Activity: HPE Nimble to HPE Cloud Volumes Partnership Setup video
  - Disaster recovery
  - Recovery scenarios

### Database Workloads with Peer Persistence

- Customer scenario
- Activity: HPE reference architecture for high availability/disaster recovery solution of virtualized Microsoft SQL Server
- Solution building blocks
  - Storage cluster solutions supported by Peer Persistence
- HPE 3PAR/HPE Primera/HPE Alletra Peer Persistence
  - Quorum witness details
  - Learning check questions and answers
  - Peer Persistence failover scenarios
  - Learning check questions and answers
  - HPE 3PAR 3DC Peer Persistence
- Customer scenario update
- HPE Nimble scale out
- HPE Nimble Peer Persistence

- Peer Persistence architecture
- Automatic switchover scenarios
- Activity: Peer Persistence for HPE Nimble Storage video
- Other remote replication-based, high availability, and disaster tolerant solutions
- Activity: VMware® SRM support verification

### Module 4: Planning Multisite Backups with HPE StoreOnce

- Customer scenario
- Activity: Backup and CDM using HPE StoreOnce Catalyst plug-in for RMAN
- Solution building blocks
- HPE Catalyst RMAN integration plug-in
- VTL/NAS replication and HPE Catalyst Copy
  - Disaster recovery scenarios
- HPE StoreOnce cloud integrations
  - HPE Cloud Bank storage
  - HPE StoreOnce VSA in Microsoft Azure
- Activity: HPE Cloud Bank storage provider verification

### Module 5: Integrating RMC

- Customer scenario
- Activity: HPE reference architecture for comprehensive Microsoft SQL server data protection and disaster recovery
- Solution building blocks
- HPE Recovery Manager Central base review
- Activity: An Introduction to HPE Recovery Manager Central video
- RMC-X integrations
  - RMC-V
  - RMC-E
  - HPE Recovery Manager Central databases (RMC-S, RMC-O, -- and RMC-SH)
- HPE Recovery Manager Central integrations with other HPE products
  - HPE Catalyst Copy and cloud support
  - Replication integrations
- Activity: HPE Recovery Manager Central replication support verification

### Module 6: Integrating Veeam and HPE Solutions

- Customer scenario
- Activity: HPE reference configuration for HPE Primera with Veeam Availability Suite
- Solution building blocks
- Veeam integrations with HPE storage arrays
- Activity: Why HPE Storage and Veeam video

- Veeam integrations with HPE StoreOnce
  - Backup replication
- Activity: HPE StoreOnce support verification
- HPE Recovery Manager Central integration with Veeam Explorer
  - Peer Persistence architecture

### Module 7: Working with HPE Cloud Volumes and Containers

- Customer scenario
- Activity: HPE reference configuration for hybrid cloud mobility with Google Cloud's Anthos on HPE Nimble Storage dHCI
- Solution building blocks
- Hybrid cloud solutions for Kubernetes using HPE primary storage
  - Container storage interface
  - Use cases for persistent storage
- HPE cloud-based solutions and services
- Activity: How to Move Data Between Clouds with HPE Cloud Volumes video
- HPE Cloud Volumes backup
- Activity: HPE Cloud Volumes Backup Demo video
- Cloud solutions positioning and summary

### Module 8: Planning Multisite Networking

- Customer scenario
- ISL bandwidth aggregation
- SAN extension protocols
- Activity: SONET, DWDM, and CWDM lecture video
- FC-FC routing
- Fabric partitioning
- Activity: Peer Persistence for HPE Nimble Storage video
- SAN security

### Module 9: Moving Data Between Systems

- Customer scenario
- Activity: HPE guide for data migration from HPE 3PAR to HPE Primera
- Solution building blocks
- HPE data migration
- Peer Motion
- Activity: Peer Motion data migration host support matrix
- HPE 3PAR Storage Federation overview
- Activity: HPE 3PAR Federation with Peer Motion Demo video
- HPE Recovery Manager Central Peer Copy

