

# Architecting Multi-site HPE Storage Solutions, Rev 16.11 H8C04S (01059537)

<b>HPE course number</b>	H8C04S
<b>Course length</b>	2 days
<b>Delivery modes</b>	ILT, VILT
<b>View schedule, local pricing, and register</b>	<a href="#">View now</a>
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This course reviews, and uses case study lab exercises to expand your skills to better consult, design, and propose solutions in the HPE Storage portfolio. The course helps you identify and translate business requirements into a multiple site storage solution design that supports deduplication and backup/recovery solutions for information protection and storage solutions for information retention.

## 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

This course is designed for senior storage architects who lead a team that designs storage solutions for enterprise customers, and who desire to leverage HPE Converged Storage Solutions in multi-site environments. Technical professionals should have an average of three to five years of experience designing and architecting storage solutions in a multi-vendor environment. This training is vital for HPE channel partners, HPE Presales employees and enterprise level storage IT professionals who are looking for proven credentials that make a difference as a trusted IT advisor. With this course, you will be able to design and propose tailored storage solutions that satisfy your customers' enterprise level, or multiple site, business needs with optimum ROI.

## Certifications and related examinations

- HPE Master ASE—Storage Solutions Architect V2
- HPE0-J79—Architecting Multi-site HPE Storage Solutions

## Prerequisites

- HPE ASE—Storage Solutions Architect V2 or
- HPE ASE—Storage Solutions Architect V1

## Course objectives

After completing this course, the student will be able to:

- Describe the Fundamental Architecture and Technology of HPE Solutions
- Architect and design complex HPE Multiple site High Availability SAN Configurations
- Architect and design complex HPE Replication and Recovery Solutions
- Architect and design HPE Converged Storage Solutions for ITaaS (IT as a Service)
- Architect and design High Availability Solutions for HPE SAN Deployments
- Architect and design Converged and Virtualized HPE Multi-site Storage Solutions
- Identify opportunities to expand and extend HPE Multiple site Disaster Recovery and Availability Solutions

\*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

## Detailed course outline

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### Module 1. Designing an HPE StoreVirtual Multi-site Architecture

- Introducing the Resource Library Adobe® Portfolio
  - Designing and implementing a HPE P4000 StoreVirtual Multi-site environment
  - Principles and multi-site SAN design considerations
  - Multi-Tiering and Adaptive Optimization
  - Application integration
  - Snapshots and network RAID levels
  - I/O path preferencing based onsite/subnet
  - VLAN design consideration
  - Disaster Recovery for Multi-site
  - Case study: Interoperability of StoreVirtual and StoreOnce multi-site designs (Alinean, ROI, TCO, NPV...)
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### Module 2. Planning and designing a HPE StoreServ multi-site environment

- HPE Converged Strategy and portfolio
  - All Flash strategy
  - Designing and planning HPE 3PAR StoreServ multi-site solutions
  - Multi-site SAN design considerations
  - Planning and Usage of HPE 3PAR StoreServ Software Suites (Enhanced Priority Optimization, Adaptive Optimization, and Dynamic Optimization, Host Persona and File Persona, SSMC, Tunesys, DAP Integration and Enhanced Security, Deduplication)
  - Peer Persistence and Persistent Ports
  - HPE 3PAR StoreServ
  - Remote copy and service processor enhancements
  - Peer motion
  - Concept and technical prerequisites for multi-site environments
  - HPE 3PAR StoreServ and HPE StoreOnce—better together with RMC
  - Case study: Interoperability of HPE 3PAR and StoreOnce multi-site designs (Alinean, ROI, TCO, NPV...)
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### Module 3. Planning and designing an HPE StoreOnce multi-node environment

- Designing and planning HPE StoreOnce multi-node environments and solution upgrade
  - Deduplication compared with federated deduplication
  - High availability, failover, and failback
  - Replication and federated deduplication
  - HPE Data Protector 9.x Infrastructure design
  - Technology, concept, and architecture
  - Integration in the virtual and physical world
  - Advanced restore options
  - Create a disaster recovery scenario
  - Planning and sizing a multi-site solution for a POC
  - Case study: Size, validate, and present a StoreOnce multi-site environment to customer
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### Module 4. HPE Converged Management with HPE OneView

- Designing an HPE OneView Multi-site Architecture
  - Server profiles
  - FlexFabric configuration and best practices
  - Storage and networking integration
  - Monitoring and alerting
  - Upgrade an HPE OneView multi-site environment
  - Case study: Size, validate, and present a Converged Management environment to customer
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