



Hewlett Packard Enterprise

Course Datasheet

Foundations of HPE Storage Solutions Design, Rev. 16.11

Education Services course product number – H9Q00S

Course length – 3 days

Delivery mode – Instructor Led Training (ILT)

Virtual Instructor Led Training (vILT)

Register – [Click here to go to HPE Learning Portal](#)

This course is designed to prepare storage professionals to consult, architect, design and propose solutions based on the latest products in the HPE Storage portfolio. It focuses on ideal storage solutions for customers in small-to-mid-sized businesses (SMB) and addresses the fundamental technologies involved in them. You'll find case study scenarios and will be expected to complete a small set of hands-on exercises performed remotely using HPE's Partner Ready Certification and Learning Lab. This course will provide you a deeper understanding of why Hewlett Packard Enterprise is a market leader in Storage Solutions and how you can leverage today's storage technology to address the needs and challenges of your SMB customers. This is an instructor led course and includes both a student guide and a lab guide.

Audience

- Channel partners in the HPE Partner Ready Program who are interested in learning how to identify opportunities and defining technical requirements for SMB Storage Solutions will find this course useful. Professionals who are looking to increase their knowledge and confidence in designing the right commercial storage solutions for SMB customers will especially benefit from this course. You are expected to have a minimum of six (6) months of experience in storage technologies to get started. Any individual who has an interest in pursuing an HPE Career Certification as a Storage Architect or Storage Integrator is also required to have this foundational training. With this course you will be able to demonstrate the skills required for architecting and/or integrating HPE Storage Solutions in today's SMB customer environments.

Certifications and Related Examinations

- HPE ATP - Storage Solutions V2 certification
- HPE0-J74 - Foundations of HPE Storage Solutions exam

Prerequisites

- None

Course Objectives

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

- Explain the fundamental architectures and technologies of storage solutions
- Describe HPE products and solutions for storage solutions
- Identify the customer's requirements
- Design, validate and propose a solution
- Expand and extend opportunities for current and future customer business
- Understand the HPE Backup and Recovery vision, strategy, products and solutions
- Plan and design a backup solution
- Describe HPE Service offerings related to HPE Storage Solutions

Course Outline

Module 1. The storage market and HPE's Transformation Areas

- What is driving the storage change
- HPE Storage vision and strategy
- Converged Infrastructure
- Software Defined Storage / HyperConverge

Module 2. SAN Basics – Technical Background

- SCSI/SAS basics, RAID basics, SNIA, SAN Types, Topologies, FC-Multiprotocol Routing
- Fibre Channel
- iSCSI
- Virtual Connect

Module 3. Direct Attached Storage

- "The Big Picture" basic theory of operation
- Portfolio – Products Overview
- Unique features of each product family
- Target customers for each product family
- Specifications and performance limits
- Factors influencing performance / sizing guidelines
- Best Practices for designing and sizing
- Reference Documents
- Sizing Tools

Module 4. NAS StoreEasy

- "The Big Picture" basic theory of operation
- Portfolio – Products Overview (1000 and 3000 series only)
- Unique features of each product family
- Target customers for each product family
- Specifications and performance limits
- Factors influencing performance / sizing guidelines
- Best Practices for designing and sizing
- Reference Documents
- Sizing Tools

Module 5. SAN Storage

- "The Big Picture" basic theory of operation
- Portfolio – Products Overview •MSA (20%)
- StoreVirtual (25%)
- StoreServ 8000 series (50%)
- StoreServ File Controller / File Persona (5%))
- Unique features of each product family (incl. licensing)
- Target customers for each product family
- Specifications and performance limits
- Factors influencing performance / sizing guidelines
- Best Practices for designing and sizing
- Reference Documents
- Sizing Tools

Module 6. SAN Infrastructure

- "The Big Picture" basic theory of operation
- Portfolio – FC Switch Products Overview
- Unique features of each product family
- Target customers for each product family
- Specifications and performance limits
- Factors influencing performance / sizing guidelines
- Best Practices for designing and sizing
- Reference Documents
- Sizing Tools

Module 7. StoreOnce & Entry Level Tape Libraries

- "The Big Picture" basic theory of operation (Backup Challenges, Methods: Snap / Replication / D2D / Tape, Deduplication, Catalyst.)
- Portfolio –Products Overview (up to but excluding StoreOnce 6000 series)
- Unique features of each product family (incl. Licensing)
- Target customers for each product family
- Specifications and performance limits
- Factors influencing performance / sizing guidelines
- Data Protector Software (incl. licensing)
- Best Practices for designing and sizing
- Reference Documents
- Sizing Tools