

HPE Digital Learner StoreOnce Content Pack

HPE course number	CP053
Content Pack length	20 Hours
Content Pack Category	Self-paced
View schedule, local pricing, and register	Category 1
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Why HPE Education Services?

- IDC MarketScape leader 5 years running for IT education and training*
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The StoreOnce Content Pack covers the HPE StoreOnce backup products, including the single node appliances, the clustered appliances, and the Virtual SAN Appliance (VSA). In this course, we discuss the range of products in the product line, and explain concepts, installation, and use. The course includes hands-on labs using HPE StoreOnce appliances. This course is updated to include the new, advanced features of the products.

This course covers the same content found in the instructor led course, HK766S I.00 Managing HPE StoreOnce Backup Solutions.

Managing HPE StoreOnce Backup Solutions Self-Paced Training has two components:

- Web-based training—available online
- Hands-on labs, via a virtual environment—available through HPE vLabs

You will enjoy access to this self-paced, web-based training for one year from your purchase date. During this time, you can repeat sections of the training for reinforcement at your own pace and on your own schedule. You have 60 sequential days of access to the HPE vLabs virtual environment.

Audience

The ideal candidate typically has a minimum of three years of design and/or operational experience, or the equivalent in at least one of the core HPE areas (server, storage, networking), and six months design and/or operational experience in other HPE solutions and technologies.

Prerequisites:

Before attending this course, students must have:

- Basic Windows administration experience
- Basic understanding of SCSI, iSCSI, RAID, fibre channel, backup, and SAN technologies

Content Pack objectives

Upon successful completion of this course, you should be able to:

- Describe the major hardware and software components of the StoreOnce product line
- Describe important StoreOnce product concepts
- Explain the importance and advantages of deduplication
- Configure StoreOnce devices for initial use
- Create Virtual Tape Libraries (VTL) and NAS shares
- Configure replication between two StoreOnce devices
- Configure Catalyst Stores
- Perform basic troubleshooting and maintenance procedures

Detailed course outline

Module 0: Managing HPE StoreOnce Backup Solutions	<ul style="list-style-type: none"> • Course introduction 	<ul style="list-style-type: none"> • Managing HPE StoreOnce Solutions class agenda
Module 1: Product Introduction	<ul style="list-style-type: none"> • StoreOnce backup systems • New StoreOnce product features and benefits 	<ul style="list-style-type: none"> • HPE StoreOnce family comparison—features in HPE StoreOnce models
Module 2: Installation	<ul style="list-style-type: none"> • Installing the StoreOnce devices • Available connections • Network/iSCSI modes of operation • Single port and dual port modes 	<ul style="list-style-type: none"> • Fibre channel • Initial configuration process • StoreOnce Gen4 firmware
Module 3: Web Management Interface	<ul style="list-style-type: none"> • StoreOnce GUI • StoreOnce GUI—left-hand menu 	<ul style="list-style-type: none"> • StoreOnce GUI—federation dashboard • StoreOnce GUI—system dashboard
Module 4: Virtual Tape Libraries	<ul style="list-style-type: none"> • HPE StoreOnce (D2D) backup systems • Choosing VTL vs. NAS 	<ul style="list-style-type: none"> • Virtual Tape Libraries (VTL) • iSCSI and fibre channel connections to VTL • Flexible emulations
Module 5: Basic Catalyst	<ul style="list-style-type: none"> • HPE StoreOnce Catalyst overview and API • ISV control of replication 	<ul style="list-style-type: none"> • HPE StoreOnce Catalyst in Data Protector • Deduplication options for low and high bandwidth transfers • What is new in Catalyst?
Module 6: NAS Shares	<ul style="list-style-type: none"> • NAS shares and server configuration • NAS share authentication 	<ul style="list-style-type: none"> • StoreOnce NAS limitations
Module 7: HPE StoreOnce Deduplication	<ul style="list-style-type: none"> • Deduplication—what is it and key benefits? • Deduplication—data locality and ratios 	<ul style="list-style-type: none"> • Housekeeping
Module 8: Replication of VTL and NAS Shares and Catalyst Copy	<ul style="list-style-type: none"> • Definition and replication granularity • Replication fan-out and fan-in • Bi-directional replication • Seeding the replication target • Catalyst Copy 	<ul style="list-style-type: none"> • Replication recovery • Making replication targets visible to host • NAS replication and 'seeding' • VTL and NAS replication and configuration
Module 9: StoreOnce Reporting and Appliance Federation	<ul style="list-style-type: none"> • Reporting • Device selection example • Viewing reports • Infosight • Next generation StoreOnce—management federation • Overlapping federation scenario 	<ul style="list-style-type: none"> • Creating a federation • Different federation topologies • Recommended networking topology • System dashboard

Module 10: Cloud Bank and Catalyst Advanced Features	<ul style="list-style-type: none"> • HPE StoreOnce Catalyst Cloud Bank and advanced features • CloudBank use cases • CloudBank configuration 	<ul style="list-style-type: none"> • CloudBank disaster recovery • StoreOnce Catalyst Copy over fibre channel • Catalyst Copy over Fibre Channel—use cases
Module 11: Best Practices	<ul style="list-style-type: none"> • General best practices • Flexible emulations best practices • StoreOnce replication best practices • NAS share best practices 	<ul style="list-style-type: none"> • Physical tape offload methods • Security • Active Directory
Module 12: Troubleshooting and Remote Support	<ul style="list-style-type: none"> • Backup or disk space problems • Capacity thresholds • Remote Support via STATS (RSvS) • Tools and updates 	<ul style="list-style-type: none"> • Configuration and software updates—improved processes • StoreOnce Gen4 software upgrade • REST API developer kit • Reference documentation
Appendix A: StoreOnce Generation 3	<ul style="list-style-type: none"> • HPE StoreOnce portfolio—comparing Gen4 and Gen3 • StoreOnce emulation specifications • HPE StoreOnce—web management GUI 	<ul style="list-style-type: none"> • StoreOnce integrated graphical reporting • Discuss StoreOnce B6000 operations • StoreOnce B6000 terminology
Appendix B: Recovery Manager Central (RMC)	<ul style="list-style-type: none"> • What is Recovery Manager Central (RMC)? • HPE StoreOnce Recovery Manager Central—key benefits • Recovery Manager Central concepts and components • RMC architecture • Element Recovery (ERT) with StoreOnce data path 	<ul style="list-style-type: none"> • RMC data protection deployment • HPE Storage 3PAR/StoreOnce integration • What is new in RMC?
Appendix C: High Availability Manager	<ul style="list-style-type: none"> • High Availability Manager overview (version 4.2) • HA Manager concept • HA Manager limits • Validation pre-checks 	<ul style="list-style-type: none"> • Monitored status • HA Manager Warranty Serial Number (WSN) • HA Manager failover check • HA VSA—failover triggers • Logging for HA Manager

Detailed lab outline

Lab 1: Connect to StoreOnce Appliance, Assign an IP Address and License it

Lab 2: Configure the StoreOnce Backup System

Lab 3: Backup to a VTL on the StoreOnce Using HP Data Protector and NAS Using Windows Backup

Lab 4: Data Deduplication

Lab 5: Use the StoreOnce GUI to Create a Catalyst Store

Lab 6: Data Replication

Lab 7: Catalyst Copy

Lab 8: Reports and Federation

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