The HPE Digital Learner 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, and has been updated to include the new, advanced features of the products. This course covers the same content found in the instructor-led course, HK766S Managing HPE StoreOnce Backup Solutions.

Managing HPE StoreOnce Backup Solutions Self-Paced Training has two components:
• eLearning—available online
• Hands-on labs, via a virtual environment—available through HPE vLabs

You will enjoy access to this self-paced, web-based training as part of your subscription service. During this time, you can repeat sections of the training for reinforcement at your own pace and on your own schedule.

**Audience**

HPE StoreOnce customers, HPE services field engineers, call center personnel, presales and channel partners, and other field personnel who provide installation and/or operational support assistance

**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

After completing this course, students will be able to:

• Describe the major hardware and software components of the HPE 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 1: Overview
- StoreOnce backup systems
- New StoreOnce product features and benefits
- HPE StoreOnce family comparison—features in HPE StoreOnce models

### Module 2: Installation
- Installing StoreOnce devices
- Available connections
- Network/ISCSI modes of operation
- Single port and dual port modes
- Fibre channel
- Initial configuration process
- StoreOnce Gen4 firmware

### Module 3: Management Console
- StoreOnce GUI
- StoreOnce GUI—left-hand menu
- StoreOnce GUI—federation dashboard
- StoreOnce GUI—system dashboard
- StoreOnce GUI—event log
- StoreOnce GUI—settings
- StoreOnce GUI—hardware
- StoreOnce GUI—security settings

### Module 4: Virtual Tape Libraries
- HPE StoreOnce (D2D) backup systems
- Choosing VTL vs. NAS
- Virtual Tape Libraries (VTL)
- iSCSI and fibre channel connections to VTL
- Flexible emulations

### Module 5: NAS Shares
- NAS shares and server configuration
- NAS share authentication
- StoreOnce NAS limitations

### Module 6: HPE StoreOnce Deduplication
- Deduplication—what is it and key benefits
- Deduplication—data locality and ratios
- Housekeeping

### Module 7: Basic Catalyst Concepts
- HPE StoreOnce Catalyst overview and API
- ISV control of replication
- HPE StoreOnce Catalyst with Veeam
- HPE StoreOnce Catalyst in Data Protector
- Deduplication options for low and high bandwidth transfers
- What is new in Catalyst?

### Module 8: Replication of VTL and NAS Shares and Catalyst Copy
- Definition and replication granularity
- Replication fan-out and fan-in
- Bi-directional replication
- Seeding the replication target
- Catalyst Copy
- Replication recovery
- Making replication targets visible to host
- NAS replication and ‘seeding’
- VTL and NAS replication and configuration
- Low-bandwidth—multihop

### Module 9: StoreOnce Reporting and Appliance Federation
- Reporting
- Device selection example
- Viewing reports
- Infosight
- Next generation StoreOnce—management federation
- Overlapping federation scenario
- Creating a federation
- Different federation topologies
- Recommended networking topology
- System dashboard
- StoreOnce High Availability Manager overview (version 4.2)
| Module 10: Cloud Bank and Catalyst Advanced Features | • HPE StoreOnce Catalyst Cloud Bank and advanced features | • CloudBank disaster recovery |
| | • CloudBank use cases | • StoreOnce Catalyst Copy over fibre channel |
| | • CloudBank configuration | • Catalyst Copy over Fibre Channel—use cases |

| Module 11: Best Practices | • General best practices | • Physical tape offload methods |
| | • Flexible emulations best practices | • Security |
| | • StoreOnce replication best practices | • Active Directory |
| | • NAS share best practices | |

| Module 12: Troubleshooting and Remote Support | • Backup or disk space problems | • Configuration and software updates—improved processes |
| | • Capacity thresholds | • StoreOnce Gen4 software upgrade |
| | • Remote Support via STATS (RSvS) | • REST API developer kit |
| | • Tools and updates | • Reference documentation |

| Appendix A: StoreOnce Generation 3 | • HPE StoreOnce portfolio—comparing Gen4 and Gen3 | • StoreOnce integrated graphical reporting |
| | • StoreOnce emulation specifications | • Discuss StoreOnce B6000 operations |
| | • HPE StoreOnce—web management GUI | • StoreOnce B6000 terminology |

| Appendix B: Recovery Manager Central (RMC) | • What is Recovery Manager Central (RMC)? | • Element Recovery (ERT) with StoreOnce data path |
| | • HPE StoreOnce Recovery Manager Central—key benefits | • RMC data protection deployment |
| | • Recovery Manager Central concepts and components | • HPE Storage 3PAR/StoreOnce integration |
| | • RMC architecture | • What is new in RMC? |

| Appendix C: High Availability Manager | • High Availability Manager overview (version 4.2) | • HA Manager Warranty Serial Number (WSN) |
| | • HA Manager concept | • HA Manager failover check |
| | • HA Manager limits | • HA VSA—failover triggers |
| | • Validation pre-checks | • Logging for HA Manager |
| | • Monitored status | |
Detailed lab outline

Lab 1: Configure an HPE StoreOnce Backup System with Storage and First-Time Configuration

Lab 2: Configure the StoreOnce Backup System

Lab 3: Backup to a VTL on StoreOnce Using Veeam and NAS Using Windows Backup

Lab 4: Data Deduplication

Lab 5: Use the StoreOnce GUI to Create a Catalyst Store and Add It to Veeam as a Backup Repository

Lab 6: Data Replication

Lab 7: Catalyst Copy within Veeam

Lab 8: Reports and Federation

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