

CompTIA Storage+ Certification Powered By SNIA

Duration: 5 days

Price: \$4000

Certifications: CompTIA Storage+

Exams: SGO-001

Course Overview

Students will gain knowledge of storage concepts, components, and the ability to work on a storage networking environment.

Target Audience

This course is targeted at network or system administrators whose responsibilities include working with and supporting various storage technologies; storage professionals who have a minimum of 12 months hands-on technical storage experience; or IT Managers who need a thorough understanding of current storage technologies.

Course Objectives

Upon successful completion of this course, students will be able to:

- examine the fundamentals of storage and network technologies.
- describe physical networking hardware.
- examine disk technologies.
- identify removable media technologies.
- describe modular storage arrays and disk enclosures.
- examine storage network connectors and cabling.
- describe storage architectures.
- describe Ethernet network technologies.
- describe an FC SAN.
- describe storage management.
- describe storage network implementation.
- Identify storage virtualization concepts, - technologies, and techniques.
- examine storage network management.
- evaluate storage performance.
- describe storage network security.

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Spectrum Trainings FZ LLC

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Course Outline

Lesson 1: Exploring Storage and Networking Fundamentals

- Storage Basics
- Describe Network Basics
- Identify Network Data Delivery Techniques

Lesson 2: Describing Physical Networking Hardware

- Describe Networking Hardware
- Examine HBA/NIC/PCI Technology

Lesson 3: Examining Disk Technologies

- Examine Disk Fundamentals
- Describe SATA Technology
- Technologies
- Describe SAS Technology
- Describe the Fibre Channel Architecture
- Describe the RAID System

Lesson 4: Identifying Removable Media Technologies

- Describe Tape Technologies
- Describe Optical Disc and SSD Technologies

Lesson 5: Describing Modular Storage Arrays and Disk Enclosures

- Describe Modular Storage Array Technologies
- Describe Disk Enclosures

Lesson 6: Examining Storage Network Connectors and Cabling

- Describe Copper Cable Connectivity

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- Describe Fiber Cable Connectivity

Lesson 7: Describing Storage Architectures

- Describe the DAS Architecture
- Describe the NAS Architecture
- Describe the SAN Architecture
- Describe Content Addressable Storage Technologies

Lesson 8: Describing Ethernet Network Technologies

- Describe Ethernet Networks
- Multipath over Ethernet Networks
- Protocols on Ethernet Networks

Lesson 9: Describing an FC SAN

- Describe the FC SAN Architecture
- Describe Zones
- Describe Fabric Services and Extension Technologies
- Describe Converged Storage Network Technologies
- Describe Multipathing Issues

Lesson 10: Describing Storage Management

- Execute Storage Provisioning
- Describe Volume Management
- Monitor Storage Networks
- Describe Storage De-duplication and Compression
- Describe Management Protocols and Interfaces
- Examine ILM

Lesson 11: Describing Storage Network Implementation

- Identify Implementation Parameters of SAS/SATA

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- Describe Storage Networks That Use Switch Technology
- Describe Storage Networks That Use HBA Technology
- Describe Storage Layouts
- Examine Storage Network Implementation Environmental Concerns
- Examine Implementation and Maintenance Factors of Storage Equipment

Lesson 12: Introducing Storage Virtualization

- Describe Storage Virtualization
- Describe Storage Virtualization Implementation
- Describe the SNIA Shared Storage Model

Lesson 13: Examining Storage Network Management

- Describe Storage Network Management
- Describe SAN Management
- Troubleshoot Common Network Problems
- Troubleshoot Common FC Problems

Lesson 14: Evaluating Storage Performance

- Identify Storage Latency and Throughput
- Examine Tuning and Workload Balance
- Evaluate Storage Device Bandwidth
- Evaluate Network Device Bandwidth
- Evaluate Storage and Host Tools

Lesson 15: Securing Storage Networks

- Describe Storage Security
- Manage Storage Redundancy
- Examine Backup and Recovery Technologies
- Describe Business Continuity

Prerequisites

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12 months of hands-on technical storage.



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