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**HP SAN Certified Professional** 









# **HP SAN Certified Professional**

#### Course Overview:

This level of certification measures the competencies required for handson planning and the integration and support of technical solutions in business class, networked environments. Given a set of customer business requirements, this individual is expected to be able to design, support and integrate platform, operating system, storage, network and option components to solve business needs. The ideal candidate is anyone who deploys business class solutions based on HP technologies

#### Course Outline:

## **SAN Concepts**

- Describe the purpose, features, and functions of a SAN.
- ➤ Identify basic and advanced SAN concepts (tiering, fabric resiliency, SAN security, LAN-free backup, redundant fabric SANs, etc.)
- ➤ Identify similarities and differences of SAN and NAS technologies.
- Describe the purpose, features, and functions of HP Adaptive Infrastructure.

#### How to Design a SAN

- Identify and describe the basics of designing a SAN.
- Identify the infrastructure requirements of a SAN.
- Explain how to design a SAN utilizing a phased approach.
- Identify the factors and performance considerations when designing a SAN.
- Describe the HP SAN philosophy.

#### **HP Infrastructure**

- Identify the industry vendors supported by HP.
- Discuss SAN infrastructure positioning.
- ➤ Identify and describe the HP SAN design rules on infrastructure.
- ➤ Distinguish between the B-Series, M-Series, and C-Series switches.
- Identify the multiprotocol routers supported by HP.
- Identify and describe heterogeneous and interoperable SAN fabrics.

#### **SAN Management**

- Describe the purpose, features, and functions of HP supported SAN management.
- Identify and describe the HP supported SAN fabric management tools.
- ➤ Identify and describe the HP supported SAN storage management tools.
- Identify and describe the HP supported SAN data management to ols.
- Identify and describe the HP supported SAN usage and monitoring tools.

#### Working with the HP StorageWorks SAN Design Reference Guide

- Utilize the HP StorageWorks SAN Reference Guide.
- Identify and utilize the rules associated with the various components in a SAN.
- Identify and explain how to use the SAN fabric zoning rules.
- Identify and describe interoperable SAN fabrics.
- > Describe data availability in a SAN.
- Identify and describe the various supported SAN security options.

# **SAN Topologies**

- ➤ Identify and describe the HP supported SAN topologies.
- Describe the data access usage patterns.
- Identify the HP supported switch maximums.
- Identify and describe the HP supported small SAN topologies.
- Describe and apply the general fabric rules.

## **SAN Storage Performance**

- Identify factors that effect SAN performance.
- Identify factors that effect disk performance, such as data rates and response time.
- Describe Fibre Channel technology and explain how it affects storage performance.
- Explain how drive speed affects performance.
- Plan a disk system that accounts for the effects of RAID, cache, and chunk size on performance.
- Identify other performance considerations.
- Describe the benefits of HP StorageWorks B-Series SAN switches.

#### **Heterogeneous SANs**

- Define heterogeneous operating system SANs.
- Identify basic Fibre Channel topologies.
- ➤ Identify and describe Fibre Channel WorldWide Names, Arbitrated Loop IDs.
- ➤ Identify and describe Fibre Channel addressing on Linux and HP-UX. SAN Enabled Backup Describe an HP StorageWorks Enterprise Backup Solution (EBS) in a SAN.
- Explain how to implement EBS environments.
- ➤ Identify and utilize the general backup configuration rules and recommendations with EBS and primary storage on the same SAN.
- Explain how to optimize EBS performance.
- ➤ Identify and utilize HP StorageWorks sizing and performance tuning tools.
- Describe HP OpenView Data Protector.

#### **Implementing a SAN**

- Identify the information required from a customer.
- Design and utilize a documentation process that can be used to document the SAN.
- Identify scalability requirements.
- Describe SAN interoperability.
- ➤ Identify and explain how to use best practices to migrate and merge.
- Describe SAN deployment. Identify troubleshooting steps.

# Prerequisites:

- Cisco CCNA / CCNP
- Linux Professional Institute Certification Level 1
- Novell Certified Administrator
- MCITP Enterprise Administrator

#### Who Can attend:

This exam is for technical presales and installation & setup personnel who propose, design, deploy, configure and integrate SAN-based storage solutions. Examples of job roles:

- HP SAN Architect
- Storage SA

#### Number of Hours: 40hrs

- **♣** Certification: HP0-841
- Key Features:
- One to One Training
- ➤ Online Training
- > Fastrack & Normal Track
- > Resume Modification
- Mock Interviews
- Video Tutorials
- Materials
- Real Time Projects
- ➤ Virtual Live Experience
- Preparing for Certification