

Huawei Certified ICT Associate- Storage

Course Objectives

On completion of this program, the participants will be able to:

- Understand definitions of information and data.
- Understand development trends of data storage products.
- Understand functions and components of controller enclosures and disk enclosures.
- Understand concepts of scale-up and scale-out, as well as related cables and interface modules.
- Understand working principles of RAID 2.0+.
- Understand dynamic RAID and RAID-TP.
- Understand common protocols used in storage systems.
- Understand working principles and characteristics of different protocols.
- Understand storage network architecture evolution.
- Understand storage networking technology evolution.
- Be familiar with the features and positioning of storage products.
- Understand DeviceManager, CLI, and UltraPath storage system management tools.
- Understand service characteristics, implementation principles, and application scenarios of resource tuning technologies.
- Understand service characteristics, implementation principles, and application scenarios of data protection technologies.
- Be familiar with common storage system O&M management tools and typical O&M processes.

Audience

- Personnel who want to become storage engineers
- Personnel who want to obtain HCIA-Storage v5.0 certification

Prerequisites

- Basic knowledge of IT technologies and networks

Course Outline

Storage Technology Trends

- Data and Information
- Data Storage

- Development of Storage Technologies
 - Storage Architecture
 - Storage Media
 - Interface Protocols
- Development Trend of Storage Products

Basic Storage Technologies

- Intelligent Data Storage System
- Intelligent Data Storage Components
 - Controller enclosure
 - Disk enclosure
 - Expansion module
 - Disk
 - HDD
 - SSD
 - Interface module
- Storage system Expansion Methods
- RAID Technologies
 - Traditional RAID
 - RAID 2.0+
 - Other RAID Technologies
- Common Storage Protocols
 - SAN Protocols
 - SCSI and SAS
 - iSCSI and FC
 - PCIe and NVMe
 - RDMA and RoCE
 - NAS Protocols
 - File system
 - CIFS, NFS and Cross-Protocol Access
 - HTTP, FTP and NDMP
 - Object and HDFS Storage Protocols
 - Object Storage Protocol
 - HDFS Storage Protocol
- Storage Network Architecture
 - DAS
 - NAS
 - SAN
 - IP SAN Technologies
 - FC SAN Technologies
 - Comparison Between IP SAN and FC SAN
- Distributed Architecture

Huawei Intelligent Storage Products and Features

- Huawei Intelligent Storage Products
 - Panorama
 - All-Flash Storage
 - Hybrid Flash Storage

- Scale-Out Storage
- Hyper-Converged Storage
- Backup Storage

Storage System Operation Management

- Storage Management Overview
- Storage Management Tools
- Basic Management Operations

Storage Resource Tuning Technologies and Applications

- SmartThin
- SmartTier&SmartCache
- SmartAcceleration
- SmartQoS
- SmartDedupe&SmartCompression
- SmartVirtualization
- SmartMigration

Storage Data Protection Technologies and Applications

- HyperSnap
- HyperClone
- HyperCDP
 - LUN HyperCDP
 - File System HyperCDP
- HyperLock

Storage System O&M Management

- O&M Overview
- O&M Tools
- O&M Scenarios

Associated Certifications

HCIA- Storage (Huawei Certified ICT Associate- Storage)

Course Duration

5 days

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