

## Training Description for Enterprise IT



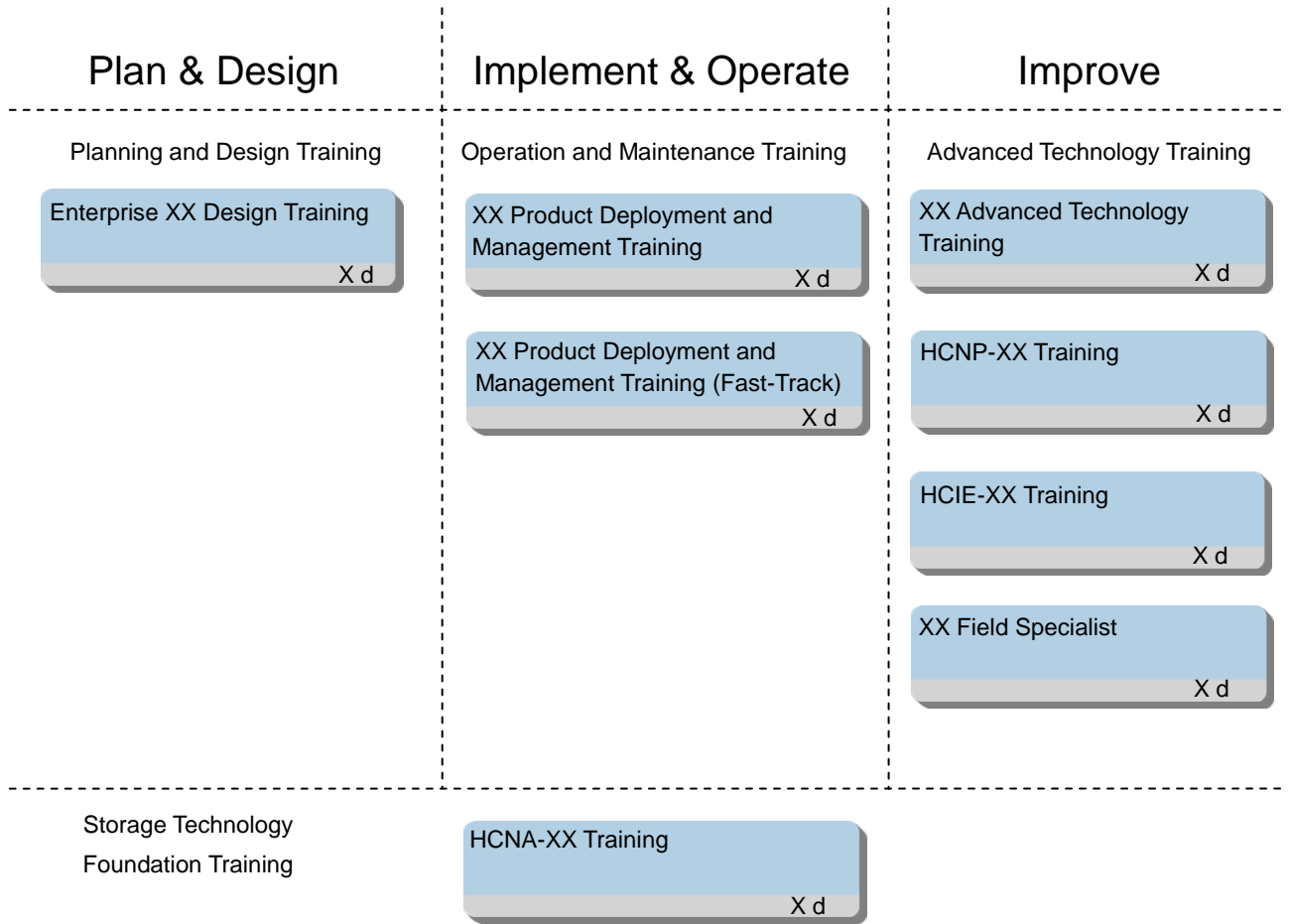
# CONTENTS

- 1 Training Path..... 4
  - 1.1 Storage Certification Training Path..... 5
  - 1.2 Cloud Computing Certification Training Path..... 6
  - 1.3 Unified Storage Training Path ..... 7
  - 1.4 NAS and Data Protection Training Path ..... 8
  - 1.5 Cloud Storage Training Path ..... 9
  - 1.6 Server Products Training Path ..... 10
  - 1.7 Cloud Computing Training Path ..... 11
  - 1.8 Data Center Training Path..... 12
- 2 Training Programs ..... 13
  - 2.1 Storage Certification Training Programs..... 16
    - 2.1.1 HCNA-Storage-BSSN Building the Structure of Storage Network Training..... 16
    - 2.1.2 HCNP-Storage-CUSN Constructing Unified Storage Network Training ..... 19
    - 2.1.3 HCNP-Storage-CBDS Constructing Big Data Storage Training ..... 21
    - 2.1.4 HCNP-Storage-CDPS Constructing Data Protection System Training..... 23
  - 2.2 Cloud Computing Certification Training Programs ..... 25
    - 2.2.1 HCNA-Cloud-BCCP Building Cloud Computing Platform Training..... 25
  - 2.3 IT Technology Foundation Training Programs ..... 28
    - 2.3.1 Storage Technology Foundation Training..... 28
  - 2.4 IT Advanced Technology Training Programs ..... 30
    - 2.4.1 Storage Area Network(SAN) Advanced Technology Training..... 30
    - 2.4.2 Network Attached Storage(NAS) Advanced Technology Training ..... 32
    - 2.4.3 Backup Advanced Technology Training ..... 34
  - 2.5 Unified Storage Training Programs ..... 37
    - 2.5.1 T seriesV1 (22T/26T/55T/56T/58T/68T) Storage Array Deployment and Management Training ..... 37
    - 2.5.2 T seriesV1 (22T/26T/55T/56T/58T/68T) Storage Array Deployment and Management Training (Fast-Track) ..... 41
    - 2.5.3 T seriesV2 (55T/56T/58T/68T) Storage System Deployment and Management Training ..... 44
    - 2.5.4 OceanStor 18500/18800 High-end Storage System Deployment and Management Training ..... 49
    - 2.5.5 SNS series (SNS2124/SNS2224/SNS2248) FC Switch Product Deployment and Management Training 54
    - 2.5.6 Dorado 2100 G2/5100 SSD Storage System Deployment and Management Training ..... 55
    - 2.5.7 VIS6000T Series Virtual Storage Gateway System Deployment and Management Training..... 57
  - 2.6 NAS and Data Protection Training Programs ..... 61
    - 2.6.1 OceanStor 9000 Storage System Deployment and Management Training..... 61
    - 2.6.2 N8500V2 Clustered NAS System Deployment and Management Training ..... 65
    - 2.6.3 VTL6900 Virtual Tape Library System Deployment and Management Training ..... 69
    - 2.6.4 HDP3500E Backup System Deployment and Management Training..... 72
  - 2.7 Cloud Storage Training Programs ..... 76
    - 2.7.1 CloudStor(CSS/CSE) Cloud Storage Deployment and Management Training ..... 76

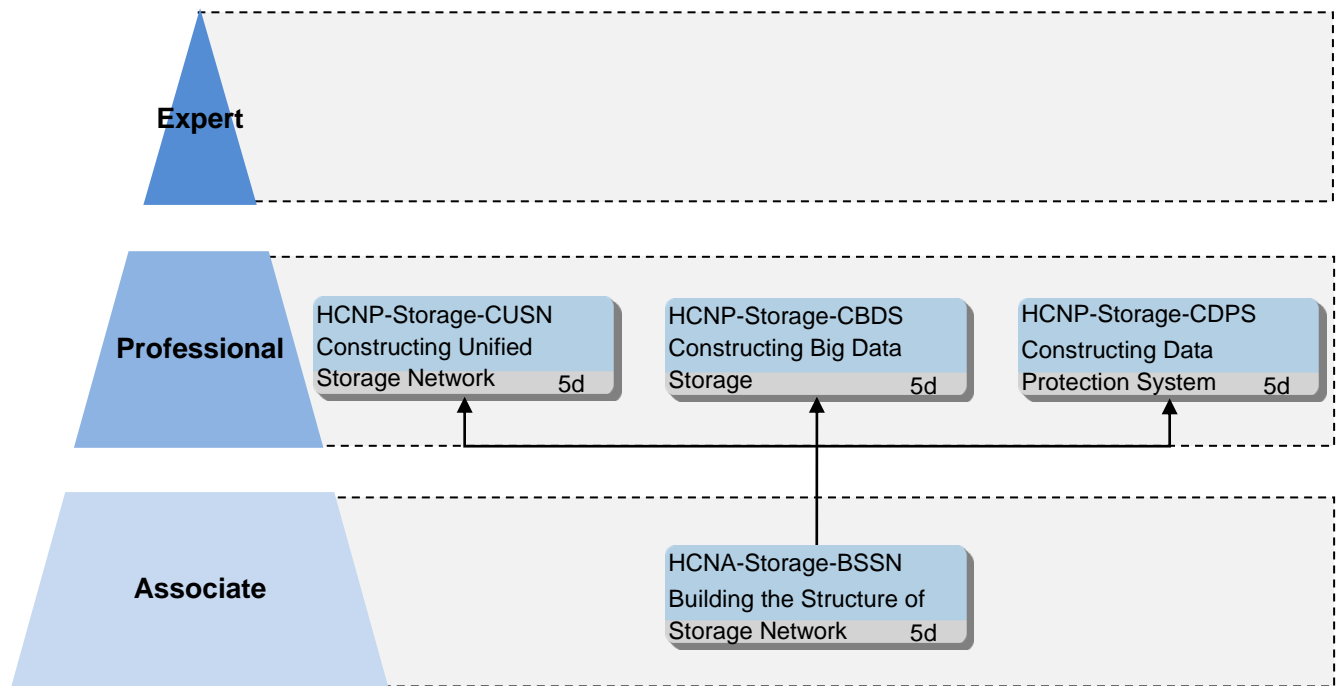


- 2.8 Server Products Training Programs ..... 81
  - 2.8.1 RH Series Rack Server Deployment and Management Training ..... 81
  - 2.8.2 X6000 Series Server Deployment and Management Training ..... 83
  - 2.8.3 E6000 Series Blade Server Deployment and Management Training ..... 85
  - 2.8.4 E9000 Converged Infrastructure Blade Server Deployment and Management Training..... 86
- 2.9 Cloud Computing Training Programs ..... 88
  - 2.9.1 Desktop Cloud Solution(R2) Deployment and Management Training ..... 88
  - 2.9.2 Desktop Cloud Solution(R3) Deployment and Management Training ..... 92
  - 2.9.3 FusionCube Solution Deployment and Management Training ..... 95
  - 2.9.4 FusionSphere Solution Deployment and Management Training ..... 98
- 2.10 Data Center Training Programs..... 101
  - 2.10.1 Micro DC Deployment and Management Training ..... 101
  - 2.10.2 ManageOne Solution Deployment and Management Training..... 102
- 2.11 IT Design Training Programs..... 104
  - 2.11.1 Enterprise Storage Area Network(SAN) Design Training ..... 104
  - 2.11.2 Enterprise Network Attached Network (NAS) Design Training ..... 105
  - 2.11.3 Enterprise Backup system and Network Design Training ..... 106
  - 2.11.4 Enterprise Data Center Network Design Training ..... 107
  - 2.11.5 Enterprise Data Center Security Design Training ..... 109
  - 2.11.6 Enterprise Data Center Disaster Recovery and Backup Design Training ..... 111

# 1 Training Path



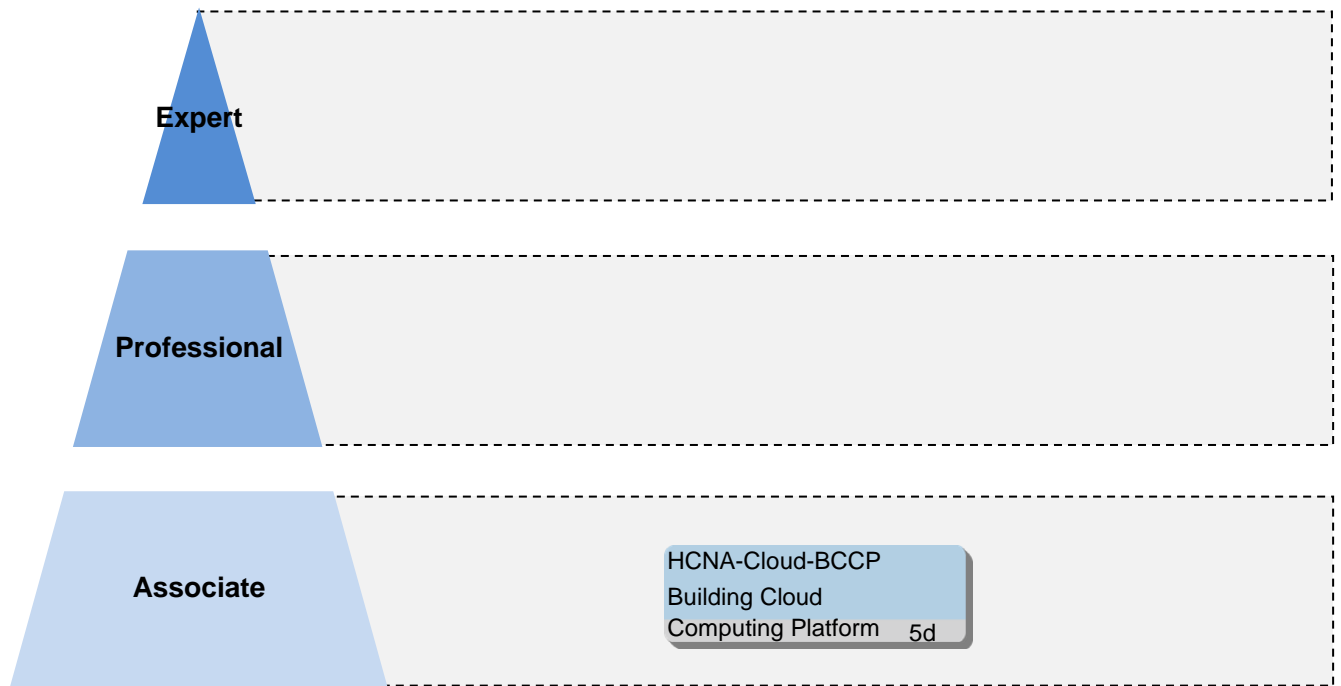
## 1.1 Storage Certification Training Path



Elective Guide

- Follow the path to learn.

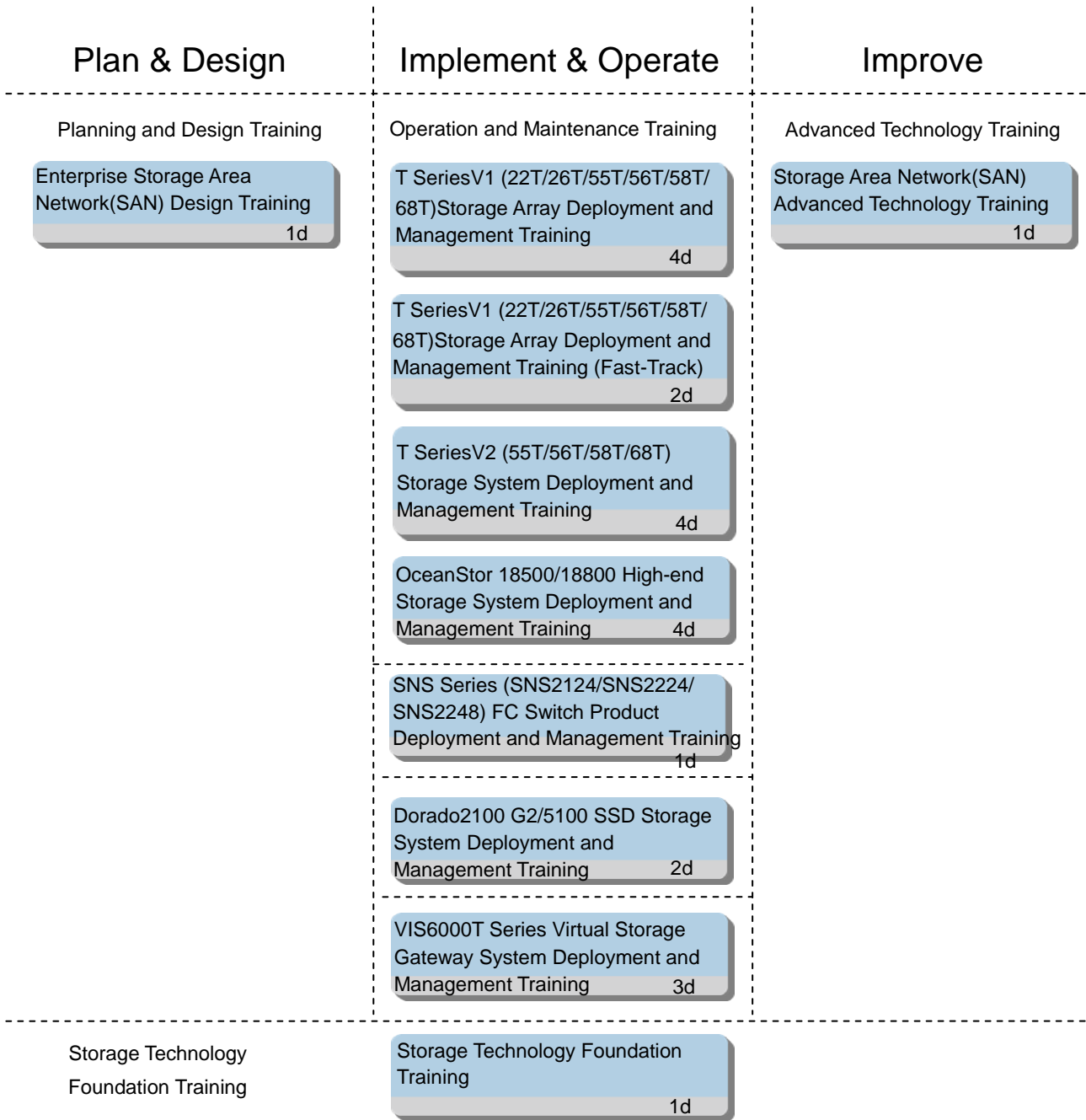
## 1.2 Cloud Computing Certification Training Path



Elective Guide

- Follow the path to learn

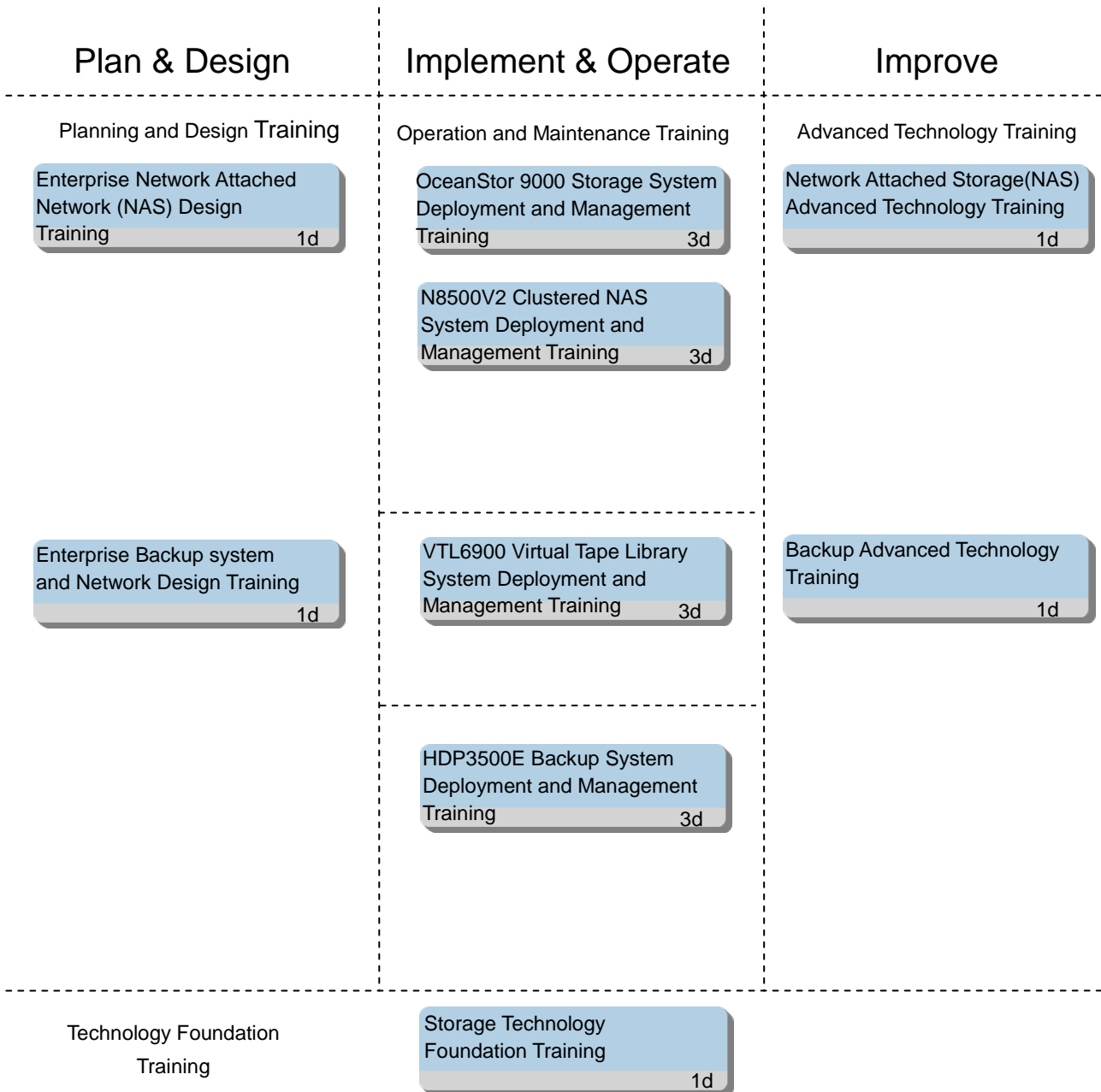
### 1.3 Unified Storage Training Path



**Elective Guide**

- The training programs in the path include T series storage array OceanStor 18500/18800, SNS, Dorado, VIS6000T products and technologies trainings.
- The training programs cover the following scenarios: centralized storage, backup, storage virtualization, disaster recovery, cloud computing storage infrastructure and data center storage infrastructure.
- Operators and Maintainers, Managers, Designers are proposed to learn the technology foundation, operation and maintenance, planning and design training programs respectively.
- The Fast-Track Training is designed for the audiences of relevant technical background.

## 1.4 NAS and Data Protection Training Path

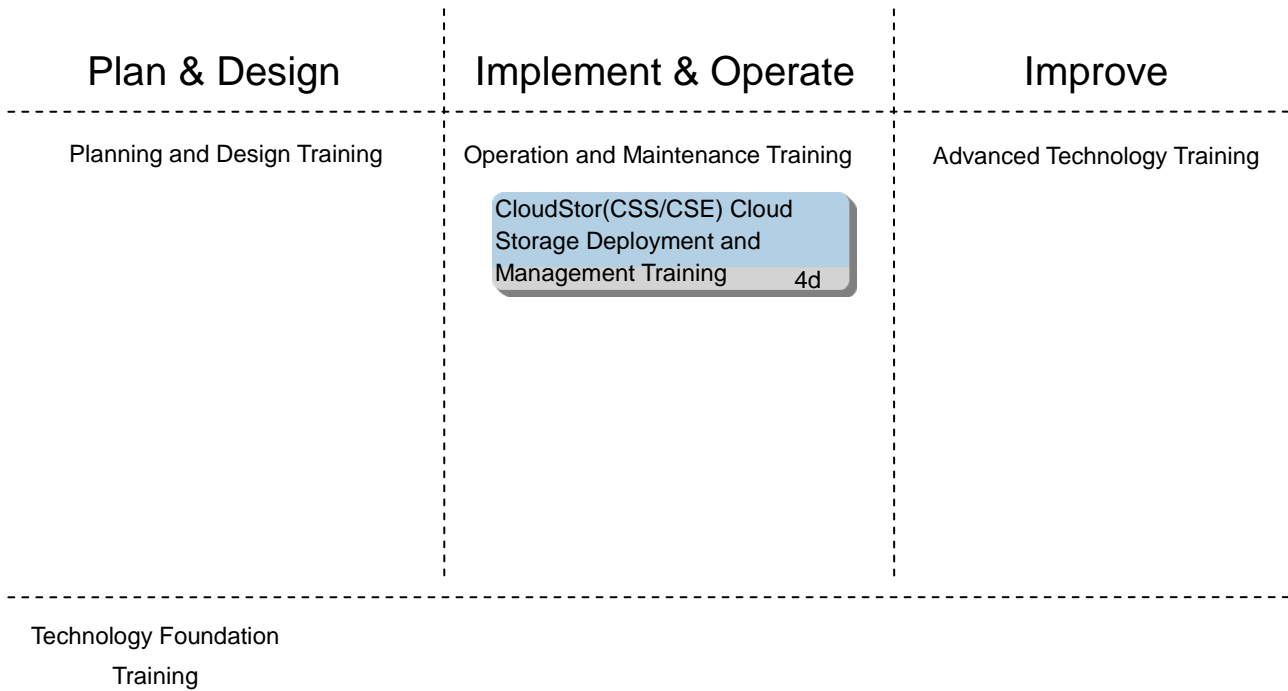


### Elective Guide

- The training programs in the path include OceanStor 9000, N8500, VTL6900 and HDP3500E products and technologies trainings.
- The training programs cover the following scenarios: file sharing, file-level data centralized storage and management, unstructured data backup and management, file-level DST, file system backup and disaster recovery.
- Operators and Maintainers, Managers, Designers are proposed to learn the technology foundation, operation and maintenance, planning and design training programs respectively.



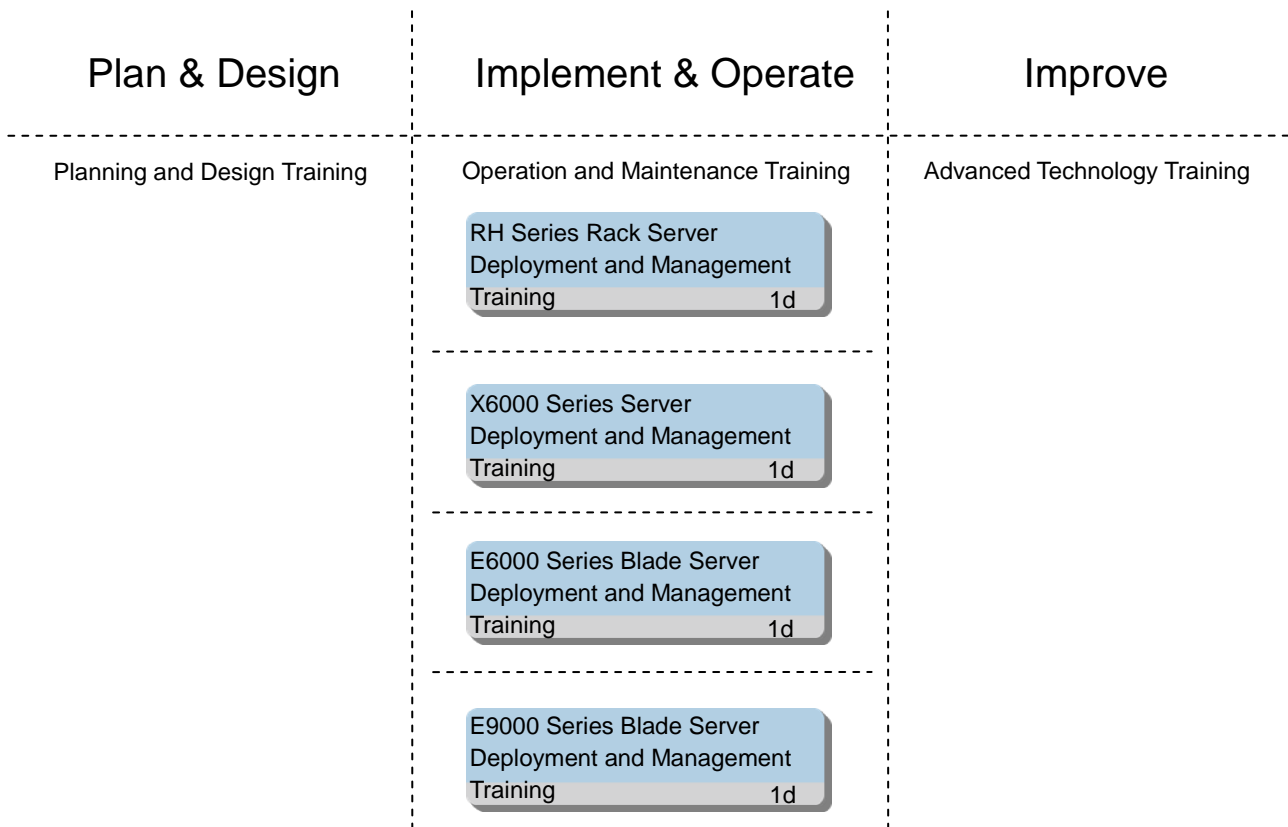
## 1.5 Cloud Storage Training Path



### Elective Guide

- The training programs in the path include cloud storage CSS, CSE products and technologies trainings.
- The training programs cover the following scenarios: mass data storage and backup solution, storage virtualization solutions, data center cloud storage solutions.
- Operators and Maintainers, Managers, Designers are proposed to learn the technology foundation, operation and maintenance, planning and design training programs respectively.

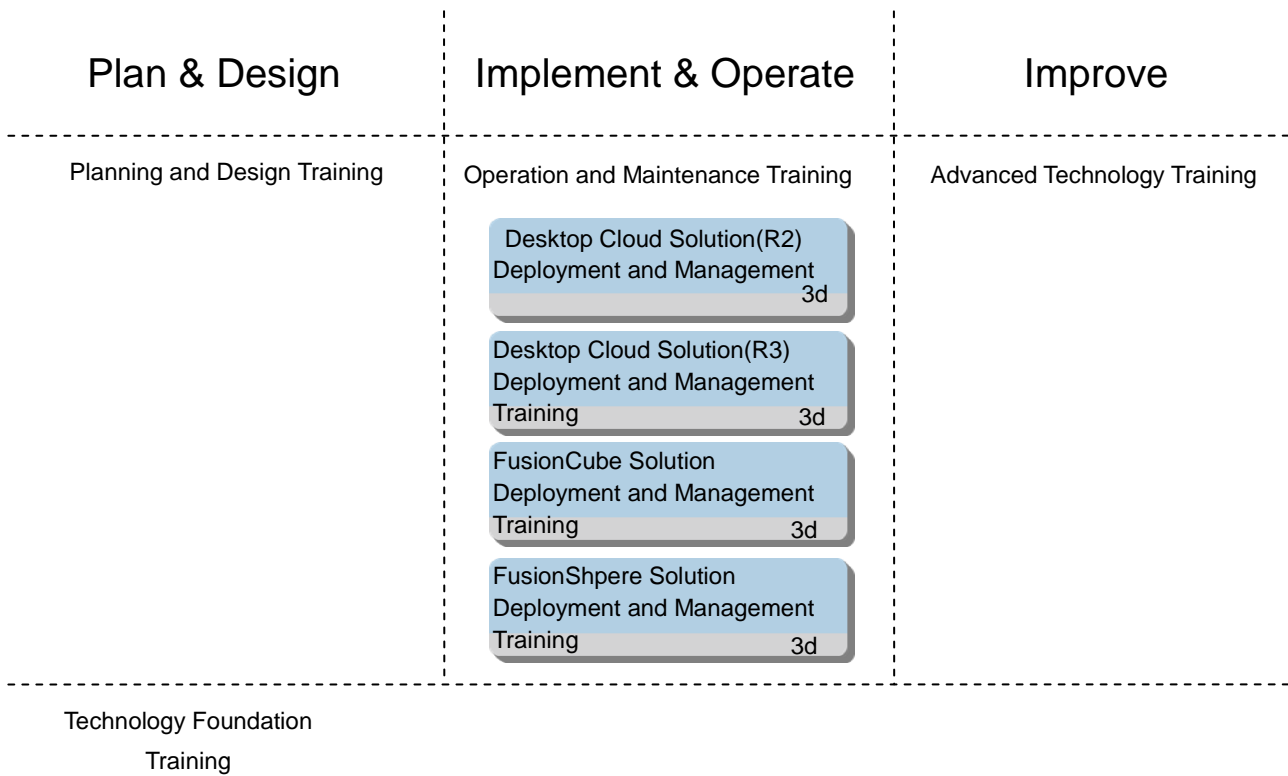
## 1.6 Server Products Training Path



### Elective Guide

- The training programs in the path include RH series, X6000, E6000 and E9000 products trainings.
- The training programs cover the following scenarios: the infrastructure of the data center, the cloud computing infrastructure and IT infrastructure.
- Operators and Maintainers, Managers, Designers are proposed to learn the technology foundation, operation and maintenance, planning and design training programs respectively.

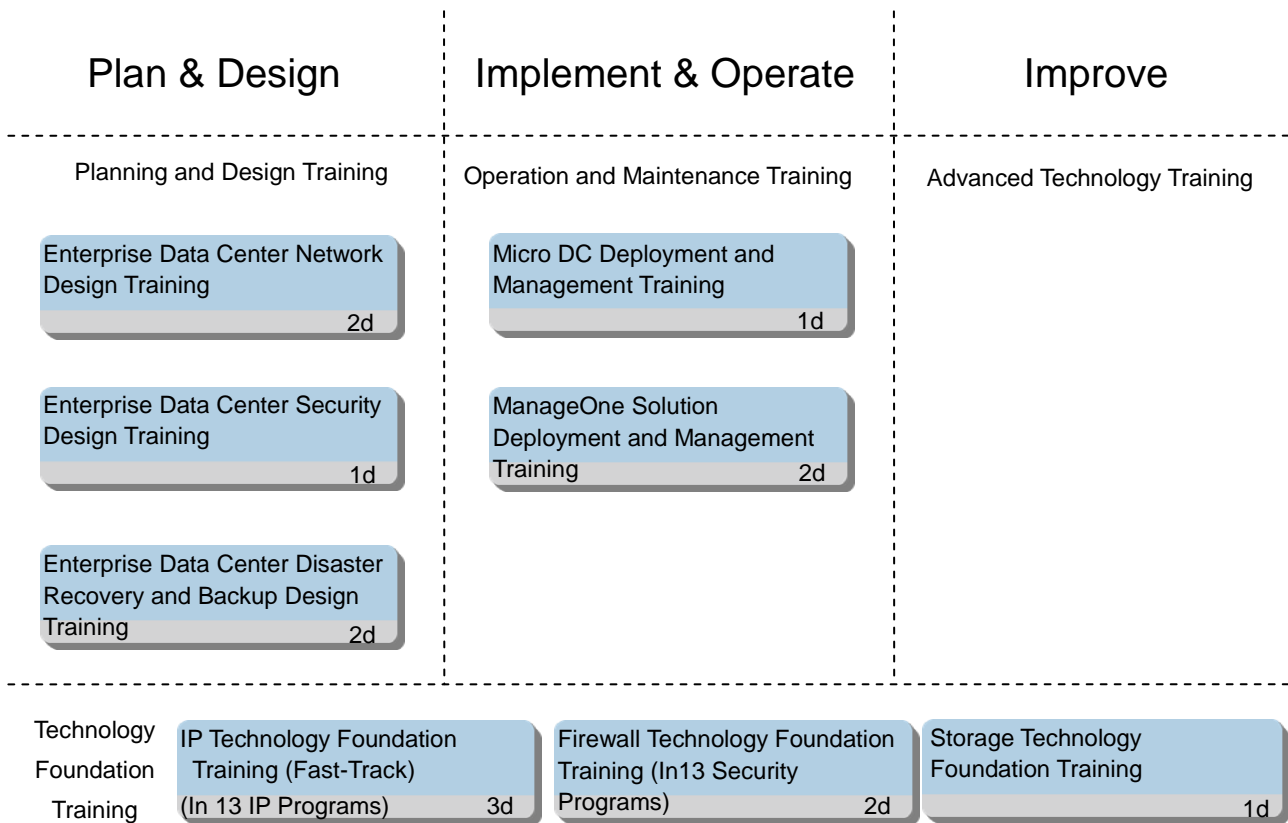
## 1.7 Cloud Computing Training Path



### Elective Guide

- The training programs in the path include, Desktop Cloud Solution, FusionCube and FusionShpere Solution trainings.
- The training programs cover the following scenarios: large-scale integrated desktop cloud solution.
- Operators and Maintainers, Managers are proposed to learn the technology foundation, operation and maintenance training programs respectively.

## 1.8 Data Center Training Path



### Elective Guide

- The training programs in the path include Data Center Solution products trainings.
- The training programs cover the following scenarios: Micro DC solution and large-scale data center solutions.
- Operators and Maintainers, Managers are proposed to learn the technology foundation, operation and maintenance training programs respectively.

## 2 Training Programs

Enterprise IT Training Programs are designed as follows:

Training Programs	Level	Duration (working days)	Training Location	Class Size
<b>Storage Certification Training Programs</b>				
HCNA-Storage-BSSN Building the Structure of Storage Network Training	II	5		6~12
HCNP-Storage-CUSN Constructing Unified Storage Network	III	5		6~12
HCNP-Storage-CBDS Constructing Big Data Storage Training	III	5		6~12
HCNP-Storage-CDPS Constructing Data Protection System Training	III	5		6~12
<b>Cloud Computing Certification Training Programs</b>				
HCNA-Cloud-BCCP Building Cloud Computing Platform Training	II	5		6~12
<b>IT Technology Foundation Training Programs</b>				
Storage Technology Foundation Training	II	1		6~12
<b>IT Advanced Technology Training Programs</b>				
Storage Area Network(SAN)Advanced Technology Training	III	1		6~12
Network Attached Storage(NAS) Advanced Technology Training	III	1		6~12
Backup Advanced Technology Training	III	1		6~12
<b>Unified Storage Training Programs</b>				
T SeriesV1 (22T/26T/55T/56T/58T/68T) Storage Array Deployment and Management Training	II	4		6~12
T SeriesV1 (22T/26T/55T/56T/58T/68T) Storage Array Deployment and Management Training (Fast-Track)	II	2		6~12
T SeriesV2 (55T/56T/58T/68T) Storage System Deployment and Management Training	II	4		6~12
OceanStor 18500/18800 High-end Storage System Deployment and Management Training	II	4		6~12
SNS Series (SNS2124/SNS2224/SNS2248) FC Switch Product Deployment and Management Training	II	1		6~12
Dorado2100 G2/5100 SSD Storage System Deployment and	II	2		6~12

Management Training				
VIS6000T Series Virtual Storage Gateway System Deployment and Management Training	II	3		6~12
<b>NAS and Data Protection Training Programs</b>				
OceanStor 9000 Storage System Deployment and Management Training	II	3		6~12
N8500 V2 Clustered NAS System Deployment and Management Training	II	3		6~12
VTL6900 Virtual Tape Library System Deployment and Management Training	II	3		6~12
HDP3500E Backup System Deployment and Management Training	II	3		6~12
<b>Cloud Storage Training Programs</b>				
CloudStor(CSS/CSE) Cloud Storage Deployment and Management Training	III	4		6~12
<b>Server Training Programs</b>				
RH Series Rack Server Deployment and Management Training	II	1		6~12
X6000 Series Server Deployment and Management Training	II	1		6~12
E6000 Series Blade Server Deployment and Management Training	II	1		6~12
E9000 Series Blade Server Deployment and Management Training	II	1		6~12
<b>Cloud Computing Training Programs</b>				
Desktop Cloud Solution(R2) Deployment and Management Training	III	3		6~12
Desktop Cloud Solution(R3) Deployment and Management Training	III	3		6~12
FusionCube Solution Deployment and Management Training	III	3		6~12
FusionSphere Solution Deployment and Management Training	III	3		6~12
<b>Data Center Training Programs</b>				
Micro DC Deployment and Management Training	III	1		6~12
ManageOne Solution Deployment and Management Training	III	2		6~12

<b>IT Design Training Programs</b>				
Enterprise Storage Area Network(SAN) Design Training	IV	1		6~12
Enterprise Network Attached Network (NAS) Design Training	IV	1		6~12
Enterprise Backup system and Network Design Training	IV	1		6~12
Enterprise Data Center Network Design Training	IV	2		6~12
Enterprise Data Center Security Design Training	IV	1		6~12
Enterprise Data Center Disaster Recovery and Backup Design Training	IV	2		6~12

Level Description: I : Basic Course II : Intermediate Course III: Advanced Course IV: Expert Course

## 2.1 Storage Certification Training Programs

### 2.1.1 HCNA-Storage-BSSN Building the Structure of Storage Network Training

#### Training Path

HCNA-BSSN Huawei Certified Network Associate-  
Building the Structure of Storage Network)  
OHC11091 Lecture, Hands-on exercise, Demo 5d

#### Target Audience

- Those who want to be storage engineer
- Those who want to achieve HCNA-Storage certification
- Operators and Maintainers
- Managers
- Planners and Designers

#### Prerequisites

- Know basal network knowledge
- Know computer basal knowledge
- Know OS basal knowledge

#### Objectives

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

- Know data center development, storage in the data center action, cloud data center development.
- Know the basal technology of servers.
- Know storage system and network basal concept, structure and component
- Know RAID basal concept, data construction way, common RAID principle, feature and different RAID application scenario
- Know FC-SAN and IP-SAN basal knowledge and key technology
- Know NAS system basal structure and concept
- Master multipath technology and host connection basal technology and application
- Master SAN storage array product function, hardware, interface, network and typical application
- Master storage array and mapping configuration on ISM
- Master SAN storage product routine maintenance and troubleshooting
- Know object storage technology
- Understand virtual storage technology and application.
- Master backup and recovery concept, topology and backup policy
- Know disaster recovery and application
- Master basic cloud compute technology
- Understand data center solution
- Know big data technology
- Be able to build FC-SAN or IP-SAN storage network, and be able to manage and maintain SAN storage system and network



## Training Content

### OHC11091 HCNA-BSSN Huawei Certified Network Associate - Build Storage System Network

- Module 1-Storage basal knowledge
  - Information storage media
  - Information storage system
  - Host server system
  - Data backup technology
  - Disaster recovery technology
- Module 2- RAID technology and application
  - RAID technology and application
  - RAID basal concept and technology principle
  - RAID feature and application scenario
  - RAID and LUN
- Module 3-Storage network technology and application
  - Storage system technology
  - FC-SAN technology
  - IP-SAN technology
  - FC-SAN and IP-SAN combination
  - NAS technology
  - Host multipath technology
  - FC switch/HBA/FC
- Module 4-Huawei storage product and solution
  - SAN storage product and application
  - Storage server product and application
  - NAS product function and application
  - Backup and recovery product and application
  - Cloud storage system and application
- Module 5-Storage system management and basal configuration
  - ISM management software using
  - SAN storage product basal configuration
  - CLI login and management
- Module 6-Storage host connection and multipath configuration
  - storage and application server connection
  - Application server software
  - Windows server and storage connection
  - Linux server and storage connection
- Module 7-SAN network and storage system routine maintenance
  - SAN storage system routine maintenance
  - SAN storage system fault diagnosis method
  - SAN storage system common fault disposal

Duration

5 working days

Class Size

Min 6, Max 12

## 2.1.2 HCNP-Storage-CUSN Constructing Unified Storage Network Training

### Training Path

HCNP-CUSN Huawei Certified Network Professional  
- Constructing Unified Storage Network  
OHC12091 Lecture, Hands-on exercise, Demo 5d

### Target Audience

Enterprise ICT technology management personal and IT technology personal

Those who hope to systemically learn and master storage technology and application, build information storage and data protection solution ability Maintainers

Managers

Planners and Designers

### Prerequisites

- Know server basal knowledge and application
- Know SAN,NAS,DR concept and technology
- Understand storage system basal operation and technology

### Objectives

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

- Master unified storage structure, component
- Know storage data process and communication protocol, principle and application
- Know storage system advanced technology and application
- Know storage virtualization technology and application
- Master VIS system principle, deployment, advanced technology and application
- Know connection and application between storage and mainstream OS platforms
- Master storage system fault diagnosis and disposal method
- Understand storage performance factor and optimization
- Master storage system and network (SAN) common technology and application; master information storage system and SAN storage solution plan, deployment, management and maintenance ability

### Training Content

OHC12091 HCNP-CUSN Huawei Certified Network Professional - Constructing Unified Storage Network

- Module 1- Unified storage system
  - SAN storage system structure
  - SCSI protocol and storage structure mode
  - FC protocol
  - SAS protocol
  - iSCSI protocol
  - NAS storage system structure
  - CIFS protocol
  - NFS protocol
- Module 2- Unified storage technology and application

- High-end storage system introduction
  - RAID2.0 technology
  - Smart advanced technologies
  - Hyper advanced technologies
  - Linkage between host and storage
  - Link management and network
- Module 3- Storage virtualization technology and application
  - Virtualization technology introduction
  - Virtualization technology classification
- Module 4- Virtualization storage gateway system deployment and management
  - VIS system structure
  - VIS basal configuration
  - Snapshot technology and application
  - Mirror technology and application
  - Replication technology and application
- Module 5- Connection between host and storages
  - UNIX platform and storage connection
  - Multipath deployment and management
- Module 6- Unified storage system fault diagnosis and disposal
  - Unified storage fault diagnosis method
  - SAN system fault diagnosis and disposal
  - VIS system fault diagnosis and disposal
- Module 7- Storage system performance and optimization
  - Performance criterion
  - Key factor affect performance
  - Performance issue diagnosis and optimization
  - Performance test tool and method
  - SAN storage system performance fault disposal
- Module 8- Unified storage schematization and design
  - SAN storage system plan principle and process
  - Business and application plan
  - Network plan
  - Storage plan
  - Storage system plan case

Duration

5 working days

Class Size

Min 6, Max 12

## 2.1.3 HCNP-Storage-CBDS Constructing Big Data Storage Training

### Training Path

HCNP-CBDS Huawei Certified Network Professional-  
Constructing Big Data Storage  
OHC12092 Lecture, Hands-on exercise, Demo 5d

### Target Audience

Enterprise ICT technology management personal and IT technology personal

Those who hope to systemically learn and master storage technology and application, build information storage and data protection solution ability Maintainers

Managers

Planners and Designers

### Prerequisites

- Know server basal knowledge and application
- Know SAN,NAS,DR concept and technology
- Understand main OS and DB operation and technology

### Objectives

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

- Be familiar with Big Data concept, development and key technology
- Be familiar with Big Data Storage solution architecture and technology: distributed Storage, clustered NAS,DST, load balancing , quota, connection, file system snapshot, mirror and replication technology
- Command Clustered NAS N8500 architecture, network planning, deployment, operation and management
- Command Big Data Storage OceanStor9000 architecture, network planning, deployment, operation and management
- Command Big Data Storage troubleshooting
- Command Big Data Storage solution planning programming

### Training Content

OHC12092 HCNP-CBDS Huawei Certified Network Professional - Constructing Big Data Storage

- Module 1-Big Data introduction
  - Big Data concept
  - Big Data development
  - Big Data technology
  - Big Data solution practices
- Module 2-Big Data Storage technology
  - distributed storage
  - distributed FS
  - DST
  - load balancing
  - quota
  - connection and protocol

- data security
  - clustered NAS
  - FS snapshot
  - FS mirror
  - FS replication
- Module 3-Big Data Storage system deployment and management
  - Big Data Storage introduction
  - Big Data Storage principle and function
  - Big Data Storage system installation and configuration
  - Big Data Storage system maintenance
- Module 4-Big Data Storage clustered NAS system deployment and management
  - Big Data Storage clustered NAS N8500 introduction
  - Big Data Storage clustered NAS N8500 principle and function
  - Big Data Storage clustered NAS N8500 installation and configuration
  - Big Data Storage clustered NAS N8500 maintenance
- Module 5-Big Data Storage best practices
  - Big file I/O best practices
  - Massive small file I/O best practices
  - non linear editing best practices
- Module 6-Big Data Storage system troubleshooting
  - OceanStor9000 faults define
  - OceanStor9000 troubleshooting process
  - OceanStor9000 typical troubleshooting cases
  - OceanStorN8500 faults define
  - OceanStorN8500 troubleshooting
  - OceanStorN8500 typical troubleshooting cases
- Module 7-Big Data Storage design and planning
  - OceanStor9000 design and planning
  - OceanStorN8500 design and planning

Duration

5 working days

Class Size

Min 6, Max 12

## 2.1.4 HCNP-Storage-CDPS Constructing Data Protection System Training

### Training Path

HCNP-CDPS Huawei Certified Network  
Professional- Constructing Data Protection System  
OHC12093 Lecture, Hands-on exercise, Demo 5d

### Target Audience

Enterprise ICT technology management personal and IT technology personal

Those who hope to systemically learn and master storage technology and application, build information storage and data protection solution ability Maintainers

Managers

Planners and Designers

### Prerequisites

- Know server basal knowledge and application
- Know SAN,NAS concept and technology
- Understand mainstream database system basal operation and technology

### Objectives

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

- Be familiar with backup and recovery system architecture, backup component, backup media, Backup mode and strategy
- Be familiar with backup network, backup and recovery technology and application
- Command HDP, VTL backup system plan, deployment and management
- Be familiar with Data deduplication, CDP technology principle
- Know DR solution, especially the cloud disaster technology and application scenario
- Command backup system troubleshooting
- Command backup DR technology and application, master backup and recovery system and data protection solution plan, deployment and management

### Training Content

OHC12093 HCNP-CDPS Huawei Certified Network Professional - Constructing Data Protection System

- Module 1- data protection technology outline
  - Data protection technology background and development trends
  - Data protection technology introduction
  - Data protection benefits
- Module 2- Data protection technology
  - Backup mechanism
  - Disaster Recovery technology
- Module 3- Virtual Tape Library system deployment and management
  - VTL system architecture and networking
  - VTL system basic configuration
  - VTL advanced feature introduction
- Module 4- Cost-effective backup product deployment and management

- HDP backup system architecture and networking
- HDP backup system deployment and configuration
- Backup and recovery of Files
- Backup and recovery of BMR
- Backup and recovery of Database
- Value-add features introduction
- Module 5-Disaster recovery application
  - Disaster recovery solution overview
  - Local high reliability disaster recovery solution introduction
  - City disaster recovery solution introduction
  - Remote disaster recovery solution introduction
  - Cloud disaster recovery solution deployment and management
- Module 6-Data protection troubleshooting
  - Backup system troubleshooting overview
  - VTL system troubleshooting
  - HDP cost-effective backup system troubleshooting
- Module 7- Data protection solution planning and design
  - Backup solution planning and design
  - Disaster recovery solution planning and design

#### Duration

5 working days

#### Class Size

Min 6, Max 12



## 2.2 Cloud Computing Certification Training Programs

### 2.2.1 HCNA-Cloud-BCCP Building Cloud Computing Platform Training

#### Training Path

HCNA-BCCP Huawei Certified Network  
Associate-Building Cloud Computing Platform

OHC1108    Lecture, hands-on exercise    5d

#### Target Audience

Those who hope to become Cloud Computing engineers  
Those who hope to obtain HCNA-Cloud certificate  
Operators and Maintainers  
Administrators  
Planners and designers

#### Prerequisites

- Be familiar with datacom basic knowledge and applications
- Be familiar with server basic knowledge and applications
- Be familiar with network security basic knowledge and applications
- Be familiar with storage basic knowledge and applications

#### Objectives

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

- Describe the evolution of Cloud Computing
- Describe the basic concept and features of Cloud Computing
- Describe the values of Cloud Computing
- Describe the advantages of Cloud Computing technology
- Describe the deployment mode of Cloud Computing
- Describe the business mode of Cloud Computing
- Describe switching and routing technology
- Describe VLAN technology
- Describe QoS technology
- Describe cluster technology
- Describe AD technology
- Describe DNS technology
- Describe DHCP technology
- Describe the features and concept of virtual machine
- Describe the features and concept of virtual network
- Describe the features and concept of virtual storage
- Describe the basic concept of storage
- Describe the RAID function of storage
- Describe the multi-path technology of storage

- Describe Huawei Cloud Computing solution
- Describe the hardware structure of Huawei Cloud Computing solution
- Describe the software structure of Huawei Cloud Computing solution
- Describe the structure and configuration of servers
- Describe the structure and configuration of storage equipments
- Describe the structure and configuration of switches
- Describe the configuration of TC
- Describe the structure and functions of FusionCompute
- Describe the structure and functions of FusionManager
- Describe the structure and functions of FusionAccess
- Master the creation of VM image
- Master the creation and assignment of VM

## Training Content

### OHC11081 HCNA-BCCP Huawei Certified Network Associate-Building Cloud Computing Platform

- Cloud Computing foundations
  - The background of Cloud Computing
  - The concept and features of Cloud Computing
  - The applications of Cloud Computing
  - The value of Cloud Computing
  - The advantages of Cloud Computing technology
- Datacom foundations
  - Data network basic knowledge
  - VLAN technology
  - QoS technology
  - Stack and cluster
  - AD technology
  - DNS technology
  - DHCP technology
- Storage technology
  - Storage introduction
  - RAID technology
  - Multi-path technology
  - Snapshot technology
- Virtualization technology
  - Virtualization introduction
  - Computing virtualization
  - Storage virtualization
  - Network virtualization
  - Virtual machine introduction
- Huawei Cloud Computing solution introduction
  - Huawei Cloud Computing solution introduction

- Hardware structure
- Software structure
- Application scenarios
- Best practice cases
- Hardware introduction
  - Hardware structure
  - Servers introduction
  - Storage equipments introduction
  - Switches introduction
  - Network security equipments introduction
  - TCs introduction
- FusionCompute structure
  - FusionCompute introduction
  - FusionCompute structure
  - FusionCompute features and functions
- FusionManager structure
  - FusionManager introduction
  - FusionManager structure
  - FusionManager features and functions
- FusionAccess structure
  - FusionAccess introduction
  - FusionAccess structure
  - FusionAccess features and functions
- Service management
  - Service management introduction
  - Image creation
  - VM management
  - Resource management

#### Duration

5 working days, including 2.5 days of hands-on practice

#### Class Size

Min 6, max 12

## 2.3 IT Technology Foundation Training Programs

### 2.3.1 Storage Technology Foundation Training

#### Training Path

Storage Technology Foundation		
OST01	Lecture	1d

#### Target Audience

Operators and Maintainers

#### Prerequisites

- Know computer basal knowledge
- Know OS basal knowledge

#### Objectives

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

- Know storage system and network basal concept, structure and component
- Know RAID basal concept, data constructing, common RAID principle, feature and different RAID application scenario
- Know FC-SAN and IP-SAN basal knowledge and key technology
- Know NAS system basal structure and concept
- Master multipath technology and host connection basal technology and application
- Understand Huawei all series storage product feature and main application

#### Training Content

##### OST01 Storage Technology Foundation

- Module 1-Storage basal knowledge
  - Information storage media
  - Information storage system
  - Host server system
  - Data backup technology
  - Disaster tolerance technology
- Module 2- RAID technology and application
  - RAID basal concept and technology principle
  - RAID technology and application
  - RAID feature and different application scenario
  - RAID and LUN
- Module 3-Storage network technology and application
  - Storage system technology
  - FC-SAN technology
  - IP-SAN technology
  - FC-SAN and IP-SAN integration

- NAS technology
- Host multipath technology
- FC switch/HBA/FC
- Module 4-Huawei storage product and solution
  - SAN storage product and application
  - Storage server product and application
  - NAS product function and application
  - Disaster tolerance product and application
  - Cloud storage system and application

Duration

1 working day

Class Size

Min 6, Max 12

## 2.4 IT Advanced Technology Training Programs

### 2.4.1 Storage Area Network(SAN) Advanced Technology Training

#### Training Path

Storage Area Network (SAN) Advanced Technology		
OST0A	Lecture	1 d

#### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

#### Prerequisites

- Know server basal knowledge and application
- Know SAN,NAS,DR concept and technology
- Understand main OS and DB operation and technology

#### Objectives

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

- Know storage system basal structure
- Know storage system development trend
- Know storage system common protocol and development trend
- Know SAN system reliability basal concept
- Know SAN reliability basal affecting factor
- Know SAN reliability improvement basal factor and method
- Know storage system performance criterion and meaning
- Know storage system performance affecting factor
- Know storage system performance improvement method

#### Training Content

##### ST0A Storage Area Network(SAN) Advanced Technology

- Module 1- SAN storage system
  - Disk array structure
  - SCSI protocol and storage structure model
  - FC protocol
  - SAS protocol
  - iSCSI protocol
- Module 2- SAN reliability
  - SAN system reliability basal knowledge
  - Host reliability technology
  - Multipath redundancy technology

- Switch reliability technology
- Storage array system reliability
- Module 3- SAN storage system performance test and optimization
  - Performance criterion and IO process
  - Performance affecting factor
  - Performance issue diagnosis and performance optimization
  - Performance test tool and method
- Module 4-storage service continuity
  - Link management and network
  - Hyper Image technology
  - LUN Copy technology
  - Hyper Mirror technology
  - Host Agent
  - LUN expansion
  - Storage service continuity solution

Duration

1 working day

Class Size

Min 6, Max 12

## 2.4.2 Network Attached Storage(NAS) Advanced Technology Training

### Training Path

Network Attached Storage(NAS) Advanced Technology		
OST0B	Lecture	1d

### Target Audience

Operators and Maintainers

Managers

Planners and Designers

### Prerequisites

- Know server basal knowledge and application
- Know SAN,NAS,DR concept and technology
- Understand main OS and DB operation and technology

### Objectives

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

- Be familiar with NAS and Clustered architecture, component, technology and principle
- Be familiar with CIFS,NFS network file sharing protocol
- Command network storage virtual system architecture ,principle and deployment
- Command N8000 DST, file replication, file backup principle

### Training Content

#### ST0B Network Attached Storage(NAS) Advanced Technology

- Module 1-Virtual technology outline
  - Storage virtual definition
  - Storage virtual value
  - Storage virtual solution benefits
- Module 2-NAS technology
  - NAS technology background
  - NAS system and solution benefits
  - NAS application scenario
  - NAS system component
  - NAS development trends
  - NAS clustered solution
- Module 3-NAS file system sharing technology
  - NAS file system and sharing technology
  - CIFS protocol principle
  - NFS protocol principle
  - Comparison of CIFS and NFS
- Module 4-NAS Clustered technology and application
  - Clustered NAS technology



- Clustered NAS system concept and specialty
- N8000 clustered NAS system hardware architecture
- N8000 clustered NAS system software architecture
- Module 5-Clustered NAS system advanced function
  - Clustered NAS file system DST
  - Clustered NAS Backup technology and application
  - Clustered NAS remote replication technology and application

Duration

1 working day

Class Size

Min 6, Max 12

## 2.4.3 Backup Advanced Technology Training

### Training Path

Backup Advanced Technology		
OST0C	Lecture	1d

### Target Audience

Operators and Maintainers

Managers

Planners and Designers

### Prerequisites

- Know server basal knowledge and application
- Know SAN,NAS,DR concept and technology
- Understand main OS and DB operation and technology

### Objectives

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

- Be familiar with backup and recovery system architecture, backup component, backup media, Backup mode and strategy
- Be familiar with backup network, backup and recovery technology
- Be familiar with Data deduplication, CDP technology principle
- Know DR solution, technology and application scenario

### Training Content

#### ST0C Backup Advanced Technology

- Module 1- Data protection technology outline
  - Data protection technology background and development trends
  - Data protection technology introduction
  - Data protection benefits
- Module 2- Backup recovery technology
  - Backup system and component
  - Backup media and backup strategy
  - Backup system network
  - Backup advanced technology
- Module 3- backup system and application
  - VTL backup system architecture and networking
  - HDP backup system architecture and networking
- Module 4-Advanced backup technology and application
  - CDP technology principle and value
  - DISK GUARD solution introduction
  - CPS solution introduction
- Module 5-disaster recovery application

- Two new site DR solution
- Heterogeneous environment, disaster recovery solution
- Windows platform disaster recovery solution
- Local high reliability disaster recovery solution
- Multi-branches disaster recovery solution
- Two site and three center disaster recovery solution
- Operators platform disaster recovery solution

Duration

1 working day

Class Size

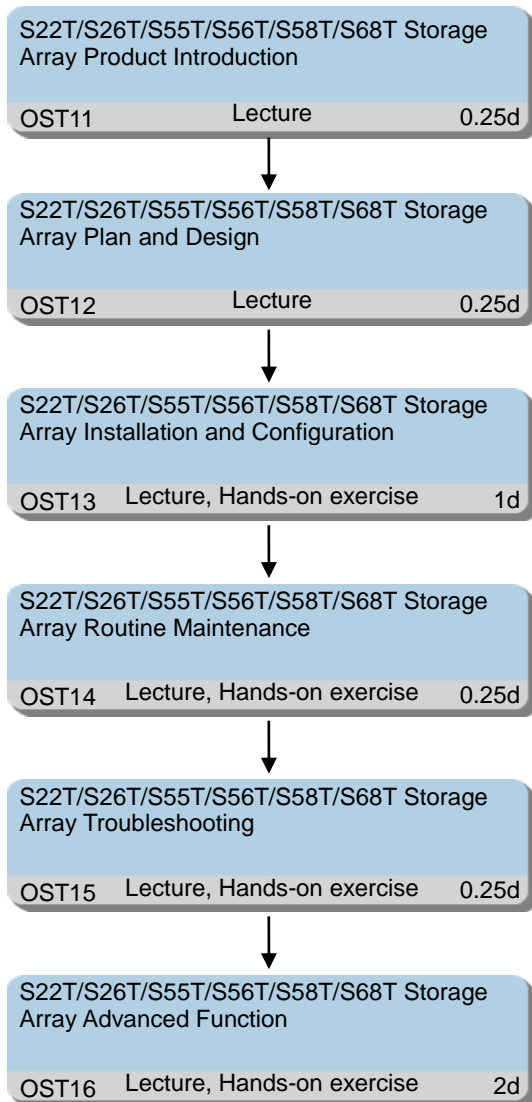
Min 6, Max 12



## 2.5 Unified Storage Training Programs

### 2.5.1 T seriesV1 (22T/26T/55T/56T/58T/68T) Storage Array Deployment and Management Training

#### Training Path



#### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

#### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

## Objectives

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

- Describe T series product position
- Describe T series product structure
- Describe T series product hardware configuration and component
- Describe T series product software structure and component
- Describe T series product main features and typical application scenario
- Understand T series storage plan and design target
- Understand T series storage plan rule
- Understand T series storage plan method
- Master storage system hardware installation
- Master storage system device cabling
- Master storage system power on sequence
- Master device configuration
- Master basal operation configuration
- Master T series product management
- Master T series product license using
- Master T series product basal application configuration
- Master T series product performance stat. function using
- Master T series product upgrade
- Know T series product common fault disposal
- Master T series product fault disposal process
- Describe UltraPath product request and product position
- Know UltraPath product main function feature
- Know UltraPath product application scenario and deployment scheme
- Know Snapshot definition, principle and configuration process
- Know LUN Copy definition, principle, configuration process
- Know Remote replication definition, principle, configuration process
- Know Smart Cache definition, principle, configuration process
- Describe Split Mirror definition, principle, configuration process
- Describe Thin Provisioning configuration feature request
- Know Thin Provisioning configuration feature and using
- Know Thin Provisioning configuration feature application scenario
- Describe Dynamic RAID Group Expansion principle, configuration

## Training Content

OST11 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Product Introduction

- T series product position and structure
- T series product hardware introduction
  - T series hardware configuration
  - T series hardware component
  - T series hardware component

- T series product software introduction
    - T series software function
    - T series software component
    - T series main features and application scenario
- OST12 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Plan and Design
- T series storage plan and design
    - T series SAN plan rule and process
    - Host Plan
    - Network Plan
    - Storage Plan
    - Plan Case
- OST13 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Installation and Configuration
- Hardware installation and cabling
    - Device installation
    - Device cabling
    - Device power on
  - T series storage configuration
    - Product summarization
    - Device configuration
    - Basal operation configuration
  - UltraPath synopsis
    - Implementation principle
    - Main function
    - Typical networking mode
    - Version introduction
  - UltraPath for Linux installation, configuration and upgrade
  - UltraPath for Windows installation, configuration and upgrade
  - UltraPath for Operating system installation, configuration and upgrade
- OST14 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Routine Maintenance
- Product management
  - License using
  - Product basal application configuration
  - Performance stat. using
  - Product upgrade
- OST15 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Troubleshooting
- Common fault introduction
  - Fault disposal method and process
  - Case study
- OST16 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Advanced Function
- Snapshot principle and application
    - Snapshot summarization
    - Snapshot principle

- Snapshot sort
  - Snapshot configuration
  - Snapshot application scenario
- LUN Copy principle and application
  - LUN Copy summarization
  - LUN Copy principle
  - LUN Copy sort
  - LUN Copy configuration
  - LUN Copy application scenario
- Remote replication principle and application
  - Remote replication summarization
  - Remote replication principle
  - Remote replication sort
  - Remote replication configuration
  - Remote replication application scenario
- Smart Cache principle and application
  - Smart Cache summarization
  - Smart Cache principle
  - Smart Cache application scenario
  - Smart Cache configuration
- Split Mirror principle and application
  - Split Mirror summarization
  - Split Mirror principle
  - Split Mirror sort
  - Split Mirror configuration
  - Split Mirror application scenario
- Thin Provisioning configuration principle and application
  - Thin Provisioning configuration summarization
  - Thin Provisioning configuration principle
  - Thin Provisioning configuration deployment
  - Thin Provisioning configuration application scenario
- Dynamic RAID Group Expansion principle and application
  - Dynamic RAID Group Expansion introduction
  - Dynamic RAID Group Expansion principle
  - Dynamic RAID Group Expansion configuration
  - Dynamic RAID Group Expansion application scenario

Duration

4 working days

Class Size

Min 6, Max 12



## 2.5.2 T seriesV1 (22T/26T/55T/56T/58T/68T) Storage Array Deployment and Management Training (Fast-Track)

### Training Path



### Target Audience

Operators and Maintainers  
Managers

### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

### Objectives

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

- Describe T series product position
- Describe T series product structure
- Describe T series product hardware configuration and component
- Describe T series product software structure and component
- Describe T series product main features and typical application scenario
- Master storage system hardware installation

- Master storage system device cabling
- Master storage system power on sequence
- Master device configuration
- Master basal operation configuration
- Master T series product management
- Master T series product license using
- Master T series product basal application configuration
- Master T series product performance stat. function using
- Master T series product upgrade
- Know T series product common fault disposal

## Training Content

### OST11 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Product Introduction

- T series product position and structure
- T series product hardware introduction
  - T series hardware configuration
  - T series hardware component
  - T series hardware component
- T series product software introduction
  - T series software function
  - T series software component
  - T series main features and application scenario

### OST12 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Plan and Design

- T series storage plan and design
  - T series SAN plan rule and process
  - Host Plan
  - Network Plan
  - Storage Plan
  - Plan Case

### OST13 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Installation and Configuration

- Hardware installation and cabling
  - Device installation
  - Device cabling
  - Device power on
- T series storage configuration
  - Product summarization
  - Device configuration
  - Basal operation configuration
- UltraPath synopsis
  - Implementation principle
  - Main function
  - Typical networking mode

■ Version introduction

- UltraPath for Linux installation, configuration and upgrade
- UltraPath for Windows installation, configuration and upgrade
- UltraPath for Operating system installation, configuration and upgrade

OST14 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Routine Maintenance

- Product management
- License using
- Product basal application configuration
- Performance stat. using
- Product upgrade

OST15 S22T/S26T/S55T/S56T/S58T/S68T Storage Array Troubleshooting

- Common fault introduction
- Fault disposal method and process
- Case study

Duration

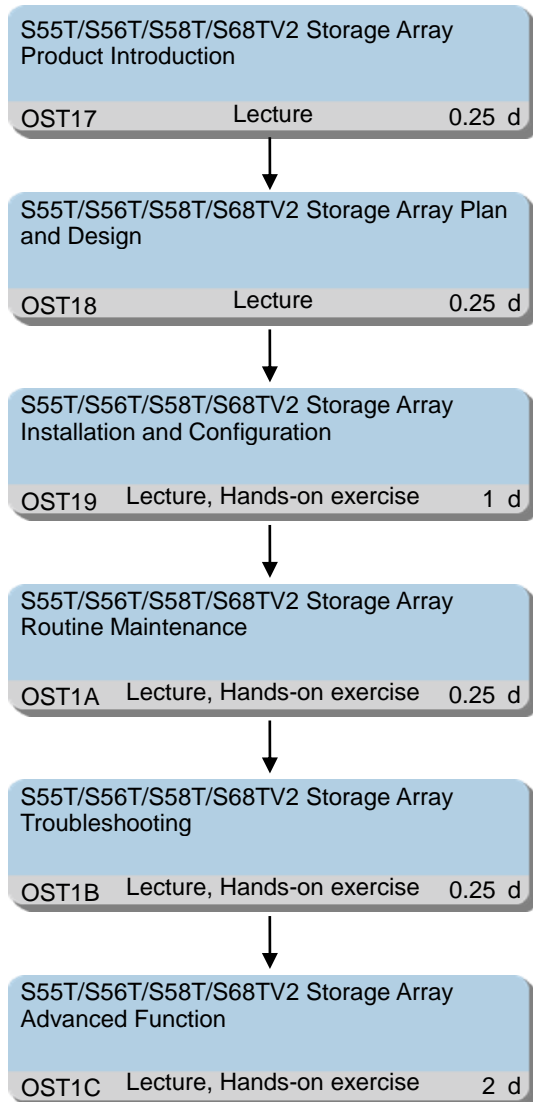
2 working days

Class Size

Min 6, Max 12

## 2.5.3 T seriesV2 (55T/56T/58T/68T) Storage System Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

### Objectives

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

- Describe T series V2 product position
- Describe T series V2 product structure
- Describe T series V2 product hardware configuration and component
- Describe T series V2 product software structure and component
- Know T series V2 product hardware installation plan
- Know T series V2 product deployment and configuration plan
- Master T series V2 product hardware installation
- Master T series V2 product basal operation configuration
- Describe storage pool basal principle
- Describe Disk reconstruction, Partial reconstruction, Recovery reconstruction
- Describe Pre-copy and Equalization
- Reconstruction performance analysis
- Storage pool configuration
- Know T series V2 product maintenance tool using
- Master T series V2 product routine maintenance method
- Know T series V2 product upgrade process and precaution
- Know T series V2 product common fault disposal
- Master T series V2 product fault disposal process
- Describe SmartTier principle, key technology, deployment and configuration
- Describe SmartThin principle, key technology, plan, deployment and configuration
- Describe SmartQoS principle, key technology, plan, deployment and configuration
- Know Virtual snapshot definition, principle and configuration process
- Know LUN Copy definition, principle and configuration process
- Know Remote replication definition, principle and configuration process
- Describe Split Mirror definition, principle and configuration process
- Describe clone principle, technology and configuration process

## Training Content

### OST17 S55T/S56T/S58T/S68TV2 Storage Array Product Introduction

- T series product position and structure
- T series product hardware introduction
  - T series hardware configuration
  - T series hardware component
  - T series hardware component
- T series product software introduction
  - T series software function
  - T series software component
  - T series main feature

### OST18 S55T/S56T/S58T/S68TV2 Storage Array Plan and Design

- T series storage hardware installation plan
  - Cabinet space plan
  - Expansion plan

- Data plan
- T series storage application (software) deployment plan introduction
  - Basal operation plan process
  - Capacity plan
  - Storage pool plan
  - LUN RW policy summarization
  - iSCSI CHAP plan
  - User plan

#### OST19 S55T/S56T/S58T/S68T V2 Storage Array Installation and Configuration

- Hardware installation and cabling
  - Device installation
  - Device cabling
  - Device power on
- Basal operation configuration
  - Pool disk selection process
  - Disk reconstruction
  - Partial reconstruction
  - Recovery reconstruction
  - Pre-copy
  - Equalization
  - Reconstruction performance analysis
  - Pool ISM basal configuration process

#### OST1A S55T/S56T/S58T/S68TV2 Storage Array Routine Maintenance

- Maintenance tool introduction
- Routine maintenance introduction
  - Information collection method
  - Status check method
  - Log component and analysis method
  - Fault stat. method
- Version upgrade introduction

#### OST1B S55T/S56T/S58T/S68TV2 Storage Array Troubleshooting

- Common fault introduction
- Fault disposal method and process
- Case study

#### OST1C S55T/S56T/S58T/S68TV2 Storage Array Advanced Function

- SmartTier principle and application
  - T series V2 SmartTier principle
  - T series V2 SmartTier key technology
  - T series V2 SmartTier application deployment and configuration
- SmartThin principle and application
  - T series V2 SmartThin function key technology
  - T series V2 SmartThin function application plan

- T series V2 SmartThin function application deployment and configuration
  - T series V2 SmartThin function fault disposal
- SmartQoS principle and application
  - T series V2 SmartQoS function principle
  - T series V2 SmartQoS function key technology
  - T series V2 SmartQoS function application plan
  - T series V2 SmartQoS function application deployment and configuration
- Virtual snapshot principle and application
  - Virtual snapshot summarization
  - Virtual snapshot principle
  - Virtual snapshot sort
  - Virtual snapshot configuration
  - Virtual snapshot application scenario
- LUN Copy principle and application
  - LUN Copy summarization
  - LUN Copy principle
  - LUN Copy sort
  - LUN Copy configuration
  - LUN Copy application scenario
- Remote replication principle and application
  - Remote replication summarization
  - Remote replication principle
  - Remote replication sort
  - Remote replication configuration
  - Remote replication application scenario
- Split Mirror principle and application
  - Split Mirror summarization
  - Split Mirror principle
  - Split Mirror sort
  - Split Mirror configuration
  - Split Mirror application scenario
- Clone principle and application
  - Clone principle
  - Clone function key technology
  - Clone application plan
  - Clone application deployment and configuration
  - Clone fault disposal
- Dynamic RAID Group Expansion principle and application
  - Dynamic RAID Group Expansion introduction
  - Dynamic RAID Group Expansion principle
  - Dynamic RAID Group Expansion configuration
  - Dynamic RAID Group Expansion application scenario

Duration

4 working days

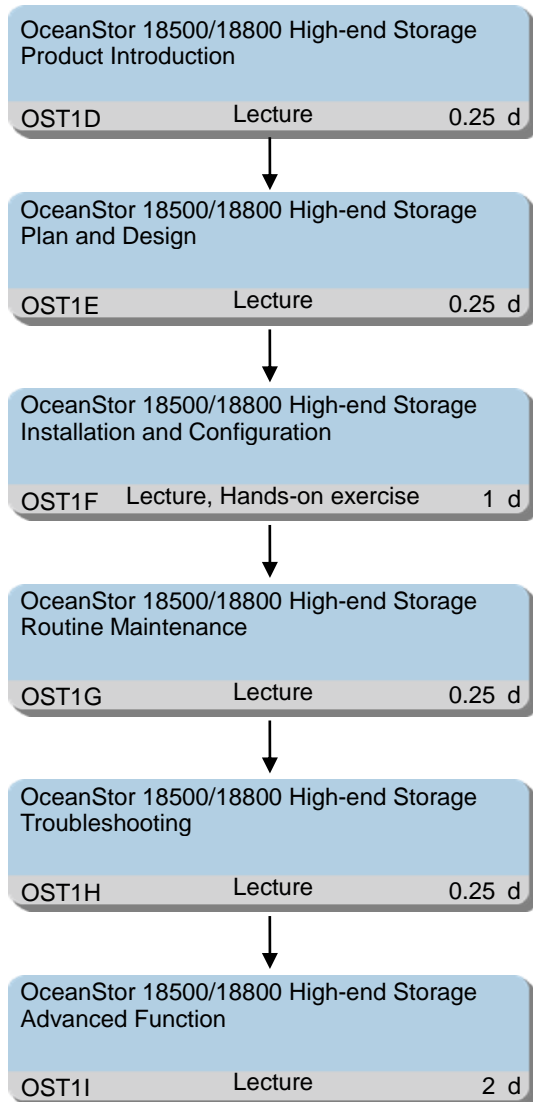
Class Size

Min 6, Max 12



## 2.5.4 OceanStor 18500/18800 High-end Storage System Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

### Objectives

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

- Describe OceanStor 18500/18800 product position
- Describe OceanStor 18500/18800 product structure
- Describe OceanStor 18500/18800 product hardware configuration and component
- Describe OceanStor 18500/18800 product software structure and component
- Know OceanStor 18500/18800 product hardware installation plan
- Know OceanStor 18500/18800 product deployment and configuration plan
- Master OceanStor 18500/18800 product hardware installation
- Master OceanStor 18500/18800 product basal operation configuration
- Know OceanStor 18500/18800 product maintenance tool using
- Master OceanStor 18500/18800 product routine maintenance method
- Know OceanStor 18500/18800 product upgrade process and precaution
- Know OceanStor 18500/18800 product common fault disposal
- Master OceanStor 18500/18800 product fault disposal process
- Describe storage pool basal principle
- Describe Disk reconstruction, Partial reconstruction, Recovery reconstruction
- Describe Pre-copy and Equalization
- Reconstruction performance analysis
- Storage pool configuration
- Describe SmartTier principle, key technology, deployment and configuration
- Describe SmartThin principle, key technology, plan, deployment and configuration
- Describe SmartQoS principle, key technology, plan, deployment and configuration
- Know Virtual snapshot definition, principle and configuration process
- Know LUN Copy definition, principle and configuration process
- Know Remote replication definition, principle and configuration process
- Describe Split Mirror definition, principle and configuration process
- Describe clone principle, technology and configuration process

## Training Content

### OST1D OceanStor 18500/18800 High-end Storage Product Introduction

- OceanStor 18500/18800 product position and structure
- OceanStor 18500/18800 product hardware introduction
  - OceanStor 18500/18800 hardware configuration
  - OceanStor 18500/18800 hardware component
  - OceanStor 18500/18800 hardware component
- OceanStor 18500/18800 product software introduction
  - OceanStor 18500/18800 software function
  - OceanStor 18500/18800 software component
  - OceanStor 18500/18800 main feature

### OST1E OceanStor 18500/18800 High-end Storage Plan and Design

- OceanStor 18500/18800 storage hardware installation plan
  - Cabinet space plan
  - Expansion plan

- Data plan
- OceanStor 18500/18800 storage application(software) deployment plan introduction
  - Basal operation plan process
  - Capacity plan
  - Storage pool plan
  - LUN RW policy summarization
  - iSCSI CHAP plan
  - User plan

#### OST1F OceanStor 18500/18800 High-end Storage Installation and Configuration

- Hardware installation and cabling
  - Device installation
  - Device cabling
  - Device power on
- Basal operation configuration

#### OST1G OceanStor 18500/18800 High-end Storage Routine Maintenance

- Maintenance tool introduction
- Routine maintenance introduction
  - Information collection method
  - Status check method
  - Log component and analysis method
  - Fault stat. method
- Version upgrade introduction

#### OST1H OceanStor 18500/18800 High-end Storage Troubleshooting

- Common fault introduction
- Fault disposal method and process
- Case study

#### OST1I OceanStor 18500/18800 High-end Storage Advanced Function

- SmartTier principle and application
  - SmartTier principle
  - SmartTier key technology
  - SmartTier application deployment and configuration
- SmartThin principle and application
  - SmartThin function key technology
  - SmartThin function application plan
  - SmartThin function application deployment and configuration
  - SmartThin function fault disposal
- SmartQoS principle and application
  - SmartQoS function principle
  - SmartQoS function key technology
  - SmartQoS function application plan
  - SmartQoS function application deployment and configuration
- Virtual snapshot principle and application

- Virtual snapshot summarization
  - Virtual snapshot principle
  - Virtual snapshot sort
  - Virtual snapshot configuration
  - Virtual snapshot application scenario
- LUN Copy principle and application
  - LUN Copy summarization
  - LUN Copy principle
  - LUN Copy sort
  - LUN Copy configuration
  - LUN Copy application scenario
- Remote replication principle and application
  - Remote replication summarization
  - Remote replication principle
  - Remote replication sort
  - Remote replication configuration
  - Remote replication application scenario
- Split Mirror principle and application
  - Split Mirror summarization
  - Split Mirror principle
  - Split Mirror sort
  - Split Mirror configuration
  - Split Mirror application scenario
- Clone principle and application
  - Clone principle
  - Clone function key technology
  - Clone application plan
  - Clone application deployment and configuration
  - Clone fault disposal
- Dynamic RAID Group Expansion principle and application
  - Dynamic RAID Group Expansion introduction
  - Dynamic RAID Group Expansion principle
  - Dynamic RAID Group Expansion configuration
  - Dynamic RAID Group Expansion application scenario

Duration

4 working days

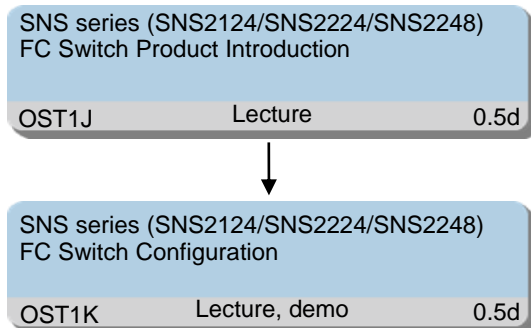
Class Size

Min 6, Max 12



## 2.5.5 SNS series (SNS2124/SNS2224/SNS2248) FC Switch Product Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers

### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

### Objectives

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

- Master SNS2124/SNS2224/SNS2248 structure
- Master SNS2124/SNS2224/SNS2248 configuration

### Training Content

#### OST1J SNS series (SNS2124/SNS2224/SNS2248) FC Switch Product Introduction

- Switch hardware/software structure
  - SNS2124/SNS2224/SNS2248 hardware/software structure introduction
  - SNS2124/SNS2224/SNS2248 Long-Distance Transmission Technology

#### OST1K SNS series (SNS2124/SNS2224/SNS2248) FC Switch Configuration

- SNS2124/SNS2224/SNS2248 FC switch configuration and maintenance
  - Hardware Installation
  - Software Configuration
  - Switch Maintenance

### Duration

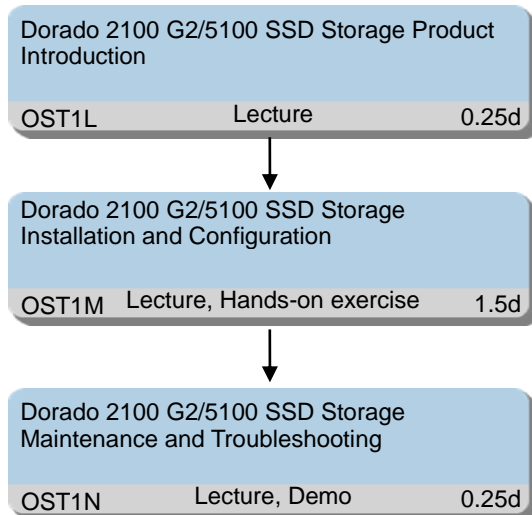
1 working day

### Class Size

Min 6, Max 12

## 2.5.6 Dorado 2100 G2/5100 SSD Storage System Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Managers

### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

### Objectives

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

- Describe Dorado2100 G2/5000 product position
- Know Dorado2100 G2/5000 product hardware/software structure component
- Know Dorado2100 G2/5000 product main function feature
- Understand Dorado2100 G2/5000 product typical application case
- Know Dorado2100 G2/5100 product hardware/software installation process
- Know Dorado2100 G2/5100 product basal configuration method
- Know Dorado2100 G2 product routine maintenance operation process
- Know Dorado2100 G2 product upgrade process
- Know Dorado2100 G2 product fault disposal operation

### Training Content

OST1L Dorado 2100 G2/5100 SSD Storage Product Introduction

- Product introduction
  - Product position
  - Product hardware introduction

- Product software introduction
- Product function feature introduction
- Typical application case

OST1M Dorado 2100 G2/5100 SSD Storage Installation and Configuration

- Darado2100 G2/5100 product hardware installation
- Darado2100 G2/5100 product basal configuration

OST1N Dorado 2100 G2/5100 SSD Storage Maintenance and Troubleshooting

- Routine maintenance
  - Maintenance route synopsis
  - Running data export
- Version upgrade
  - Upgrade summarization
  - Upgrade process
- Troubleshooting
  - Troubleshooting method
  - Troubleshooting case

Duration

2 working days

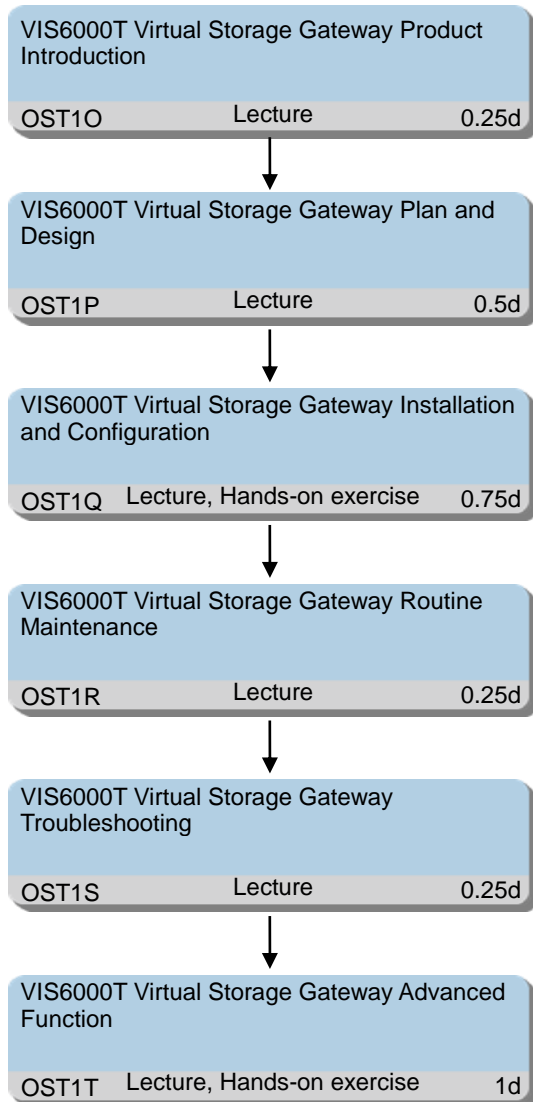
Class Size

Min 6, Max 12



## 2.5.7 VIS6000T Series Virtual Storage Gateway System Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

### Objectives

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

- Describe VIS6000T product position
- Know VIS6000T product software/hardware structure component
- Know VIS6000T product main function feature
- Understand VIS6000T product typical application case
- Know VIS6000T product hardware installation/network plan
- Master VIS6000T product hardware/software installation and deployment
- Master VIS6000T product basal function configuration
- Know VIS6000T product maintenance tool
- Know VIS6000T product routine maintenance method
- Master VIS6000T product common fault disposal process
- Know VIS6000T product fault disposal basal principle and method
- Know VIS6000T product replication function principle, key technology, application plan, network and connection
- Master VIS6000T product replication function application deployment and configuration, troubleshooting
- Know VIS6000T product mirror function principle , key technology, application plan, network and connection
- Master VIS6000T product mirror function application deployment and configuration, troubleshooting
- Know VIS6000T product snapshot function principle, key technology, application plan, network and connection
- Master VIS6000T product snapshot function application deployment and configuration, troubleshooting

## Training Content

### OST1O VIS6000T Virtual Storage Gateway Product Introduction

- Product position
- Software/hardware introduction
  - Hardware introduction
  - Software introduction
- Function feature introduction
- Typical application case

### OST1P VIS6000T Virtual Storage Gateway Plan and Design

- Hardware installation plan
  - Cabinet space plan
  - Component connection plan
  - Network plan
- Application deployment plan
  - Storage and network deployment
  - Application software installation environment preparation
  - Application software configuration

### OST1Q VIS6000T Virtual Storage Gateway Installation and Configuration

- Hardware installation
  - Internal cabling
  - Host connection
  - Storage connection
- Software installation and deployment
- Basal function configuration

- Storage virtualization configuration
- Configuration file export

#### OST1R VIS6000T Virtual Storage Gateway Routine Maintenance

- Maintenance tool
  - Tool installation
  - Tool using
- Routine maintenance
  - Maintenance route synopsis
  - Running data export
- Version upgrade
  - Upgrade summarization
  - Upgrade process

#### OST1S VIS6000T Virtual Storage Gateway Troubleshooting

- Common fault introduction
- Fault disposal method and process
- Case study

#### OST1T VIS6000T Virtual Storage Gateway Advanced Function

- VIS6000T replication technology and application
  - VIS6000T product replication function principle
  - VIS6000T product replication function key technology
  - VIS6000T product replication function application plan
  - VIS6000T product replication typical network and connection
  - VIS6000T product replication function application deployment and configuration
  - VIS6000T product replication function troubleshooting
- VIS6000T mirror technology and application
  - VIS6000T product mirror function principle
  - VIS6000T product mirror function key technology
  - VIS6000T product mirror function application plan
  - VIS6000T product mirror typical network and connection
  - VIS6000T product mirror function application deployment and configuration
  - VIS6000T product mirror function troubleshooting
- VIS6000T snapshot technology and application
  - VIS6000T product snapshot function principle
  - VIS6000T product snapshot function key technology
  - VIS6000T product snapshot function application plan
  - VIS6000T product snapshot typical network and connection
  - VIS6000T product snapshot function application deployment and configuration
  - VIS6000T product snapshot function troubleshooting

#### Duration

3 working days

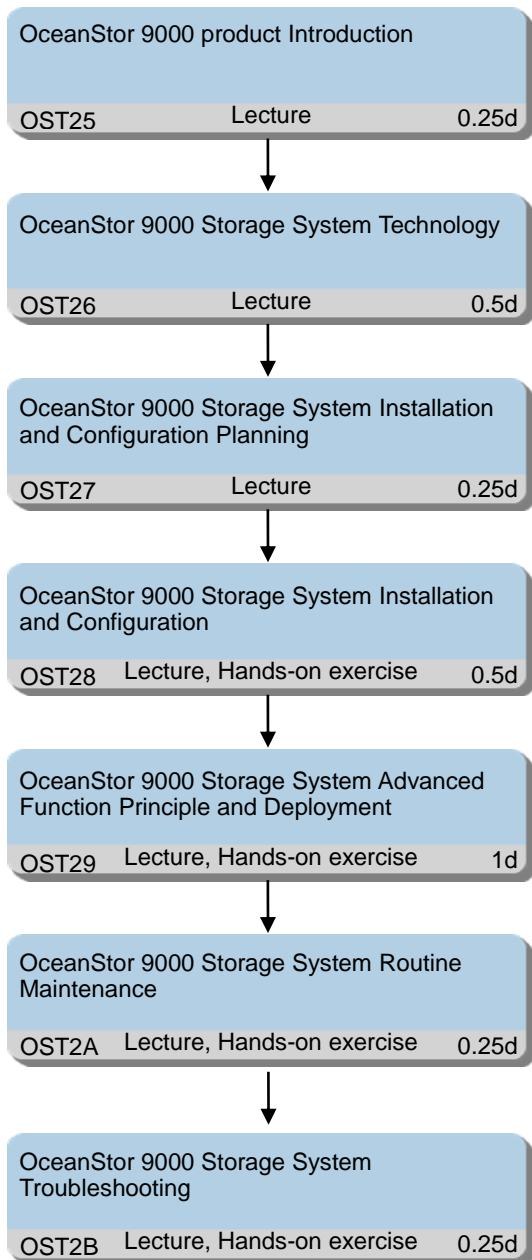
Class Size

Min 6, Max 12

## 2.6 NAS and Data Protection Training Programs

### 2.6.1 OceanStor 9000 Storage System Deployment and Management Training

#### Training Path



#### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

#### Prerequisites

- Know storage foundation

- Know Windows, Linux OS operation
- Know NAS system knowledge
- Know cluster system foundation

## Objectives

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

- Describe OceanStor 9000 product, position, main function, application scenario
- Describe OceanStor 9000 user management, AD/LDAP/NIS,NFS,CIFS, Dynamic storage tier principle
- Be familiar with OceanStor 9000 product hardware installation Planning
- Be familiar with OceanStor 9000 product deployment and configuration Planning process and tools
- Command OceanStor 9000 product hardware installation
- Command OceanStor 9000 typical networking
- Command OceanStor 9000 product file sharing configuration
- Command OceanStor 9000 wise link configuration and application
- Command OceanStor 9000 wise tier configuration and application
- Command OceanStor 9000 wise qouta configuration and application
- Be familiar with OceanStor 9000 maintenance tool
- Command OceanStor 9000 routine maintenance method
- Be familiar with OceanStor 9000 upgrade process and notice
- Be familiar with OceanStor 9000 troubleshooting method
- Command OceanStor 9000 troubleshooting case

## Training Content

### OST25 OceanStor 9000 Storage System Product Introduction

- OceanStor 9000 Storage System product introduction
  - OceanStor 9000 product configuration and position
  - OceanStor 9000 product function
  - OceanStor 9000 product application scenario
  - OceanStor 9000 application case

### OST26 OceanStor 9000 Storage System Technology

- OceanStor 9000 Storage System technology
  - OceanStor 9000 Scale-out technology
  - OceanStor 9000 Erasure code technology
  - OceanStor 9000 object storage technology
  - OceanStor 9000 has technology DHT
  - OceanStor 9000 distributed file system technology
  - OceanStor 9000 Clustered technology
  - OceanStor 9000 Wise Tier storage technology

### OST27 OceanStor 9000 Storage System Installation and Configuration Plan

- OceanStor 9000 hardware installation Plan
  - Cabinet installation Plan
  - Cascade Plan
  - Networking Plan

- OceanStor 9000 configuration plan
  - Plan flow
  - Physical disk plan
  - Disk group plan
  - File system plan
  - Sharing plan
  - Client plan

#### OST28 OceanStor 9000 Storage System Installation and Configuration

- Hardware installation
  - Device installation
  - Device connection
  - System power-on
- Network and connection
  - Typical networking
  - Physical connection
- Basic configuration
  - Physical disk configuration
  - File system configuration
  - File sharing configuration
  - Client configuration

#### OST29 OceanStor 9000 Storage System Advanced Function Principle and Deployment

- Wise tier principle and application
  - Wisetier function technology
  - Wisetier function application plan
  - Wisetier function application deployment and configuration
- WiseLink principle and application
  - WiseLink introduction
  - WiseLink principle
  - WiseLink configuration
  - WiseLink application scenario
- WiseQouta principle and application
  - WiseQouta introduction
  - WiseQouta principle
  - WiseQouta configuration
  - WiseQouta application scenario

#### OST2A OceanStor 9000 Storage System Routine Maintenance

- Maintenance tool introduction
- Routine maintenance introduction
  - Information collection method
  - Status checking method
  - Log composing and analysis method
  - Fault checking method

- System version upgrade introduction

#### OST2B OceanStor 9000 Storage System Troubleshooting

- Fault introduction
- Troubleshooting method and process
- Case study

#### Duration

3 working days

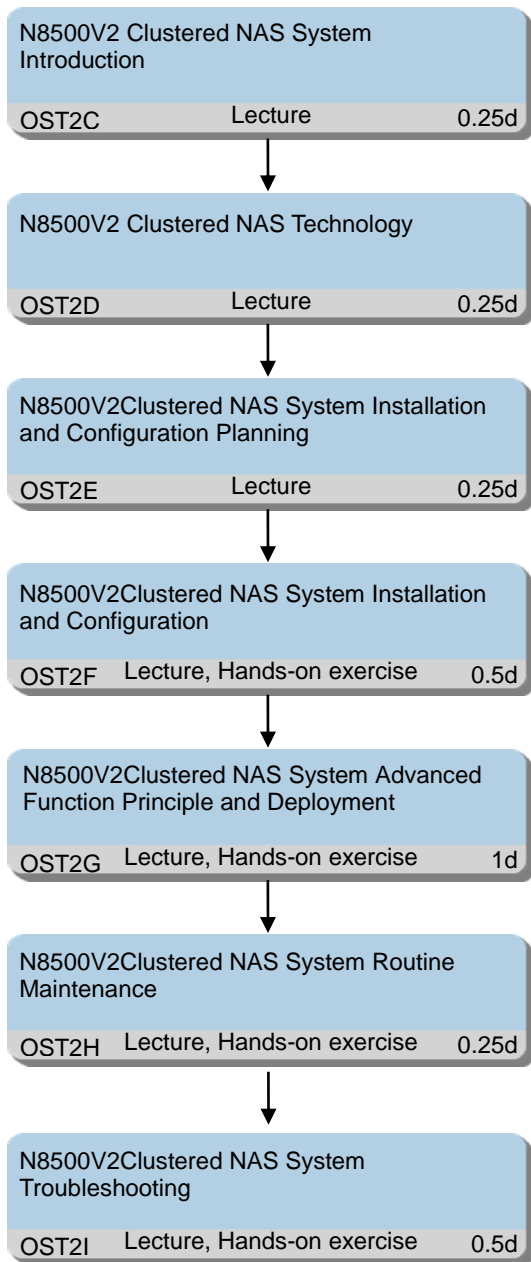
#### Class Size

Min 6, Max 12



## 2.6.2 N8500V2 Clustered NAS System Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

### Prerequisites

- Know storage foundation
- Know Windows, Linux OS operation
- Know NAS system knowledge

- Know cluster system foundation

## Objectives

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

- Describe N8500V2R1 Clustered NAS product type, position, main function, application scenario
- Describe N8500V2R1 clustered NAS NFS, CIFS, DST, replication technology principle
- Be familiar with N8500 product hardware installation planning
- Be familiar with N8500 product deployment and configuration planning
- Be familiar with network and bond mode
- Command N8500V2R1 product hardware installation
- Command N8500V2R1 typical networking
- Command N8500V2R1 deployment tool
- Command N8500V2R1 product file sharing basic operation configuration
- Command N8500V2R1 Backup, DST configuration and application
- Command N8500V2R1 file system snapshot , mirror image, replication principle, configuration and application
- Be familiar with N8500V2R1 maintenance tool method
- Command N8500V2R1 routine maintenance method
- Be familiar with N8500V2R1 upgrade method
- Be familiar with N8500V2R1 product troubleshooting method
- Command N8500V2R1 typical fault case

## Training Content

### OST2C N8500V2 Clustered NAS System Introduction

- N8500V2R1 product introduction
  - N8500V2R1 product configuration and position
  - N8500V2R1 product function
  - N8500V2R1 product application scenario
  - N8500V2R1 application case

### OST2D N8500V2 Clustered NAS Technology

- N8500V2R1 clustered NAS technology
  - N8500V2R1 NFS technology
  - N8500V2R1 CIFS technology
  - N8500V2R1 clustered file system technology
  - N8500V2R1 dynamic storage tiering technology
  - N8500V2R1 file system replication technology

### OST2E N8500V2 Clustered NAS System Installation and Configuration Plan

- N8500 hardware installation plan
  - cabinet space plan
  - cascade plan
- N8500 system application deployment plan introduction
  - Basic operation configuration plan process
  - Physical disk space plan
  - Logical group plan

- File system plan
  - File sharing plan
  - Client configuration plan
- N8500 network and bond
  - Bond mode and application
- N8500 plan and performance

#### OST2F N8500V2 Clustered NAS System Installation and Configuration

- Hardware installation
  - device installation
  - device connection
  - System power-on
- Typical networking and connection
  - Typical networking
  - Physical connection
- N8500 initialization configuration tool
- Basic configuration
  - Physical disk configuration
  - File system configuration
  - Sharing configuration CIFS /NFS/HTTP/FTP sharing configuration
  - Client configuration

#### OST2G N8500V2 Clustered NAS System Advanced Function Principle and Deployment

- File backup principle and application
  - File backup function technology
  - File backup function application Plan
  - File backup function application deployment and configuration
- DST principle and application
  - DST function technology
  - DST function application plan
  - DST function application deployment and configuration
- File system snapshot principle and application
  - File system snapshot introduction
  - File system snapshot principle
  - File system snapshot class
  - File system snapshot configuration
  - File system application scenario
- File system replication principle and application
  - File system replication introduction
  - File system replication principle
  - File system replication
  - File system replication configuration
  - File system replication application scenario
- File system mirror image principle and application

- File system mirror image introduction
- File system mirror image principle
- File system replication class
- File system mirror image configuration
- File system mirror image application scenario
- Domain environment application
  - Domain environment application class
  - Domain environment file sharing configuration

#### OST2H N8500V2 Clustered NAS System Routine Maintenance

- Maintenance tool introduction
- Routine maintenance introduction
  - Information collection method
  - Status checking method
  - Log composing and analysis method
  - Fault checking method
- System version upgrade

#### OST2I N8500V2 Clustered NAS System Troubleshooting

- Fault introduction
- Troubleshooting method and process
- Case study

#### Duration

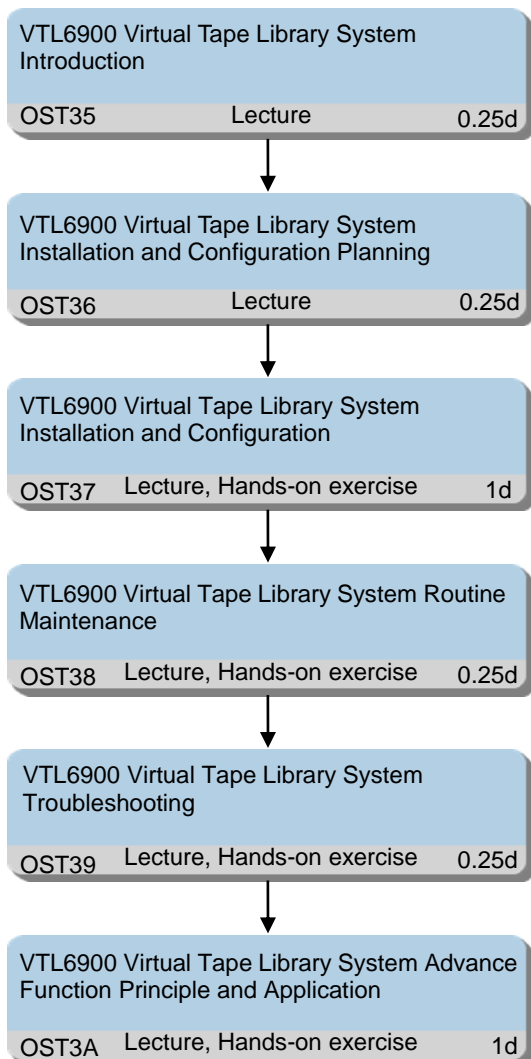
3 working days

#### Class Size

Min 6, Max 12

## 2.6.3 VTL6900 Virtual Tape Library System Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

### Prerequisites

- Know storage foundation
- Know Windows, Linux OS operation
- Know virtual tape library knowledge
- Know cluster knowledge

### Objectives

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

- Describe VTL6900 positioning , architecture , features, application scenarios
- Be familiar with VTL6900 Approaches to deploying and to planning VTL6900 deployment and using configuration

tools

- Be familiar approaches and procedure for installing the VTL6900 hardware
- Be familiar with Approaches to installing and deploying the VTL6900
- Be familiar with Approaches to using ISM ServiceTool to finish Daily maintenance tasks
- Be familiar with Approaches to upgrading the VTL6900
- Be familiar with Approaches to locating and handling the VTL6900 faults
- Command VTL6900 clustered mechanism
- Command VTL6900 data deduplication principle and application
- Command VTL6900 Tape Out principle and application
- Command VTL6900 replication principle and application

## Training Content

### OST35 VTL6900 Virtual Tape Library System Introduction

- VTL6900 product introduction
  - VTL6900 product configuration and position
  - VTL6900 product function
  - VTL6900 product application scenario
  - VTL6900 application case

### OST36 VTL6900 Virtual Tape Library System Installation and Configuration Plan

- VTL6900 hardware installation Plan
  - Cabinet space plan
  - Cascade plan
  - Initialization configuration
  - IP address plan
  - Network and cable connection
- VTL6900 deployment plan introduction
  - Basic operation configuration plan
  - Physical disk capacity plan
  - Virtual Tape Library plan
  - Virtual tape plan
  - Client plan

### OST37 VTL6900 Virtual Tape Library System Installation and Configuration

- Hardware installation and cabling
  - Device installation
  - Device cable connection
  - Device power-on
- Typical networking and connection
  - Typical networking
  - Physical connection
- basic configuration
  - Initialization configuration
  - Physical disk configuration

- Virtual tape library configuration
- Client configuration
- Virtual tape allocation
- Virtual tape discovery

#### OST38 VTL6900 Virtual Tape Library System Routine Maintenance

- Maintenance tool introduction
- Routine maintenance introduction
  - Information collection method
  - Status checking method
  - Log composing and analysis method
  - Fault checking method
- System version upgrade introduction

#### OST39 VTL6900 Virtual Tape Library System Troubleshooting

- Fault introduction
- Troubleshooting method and process
- Case study

#### OST3A VTL6900 Virtual Tape Library System Advanced Function Principle and Application

- Clustered principle
  - Clustered technology
  - Clustered configuration
- Data deduplication principle and application
  - Data deduplication technology
  - Data deduplication deployment and configuration
- Tape Out principle and application
  - Tape Out principle
  - Tape Out configuration
  - Tape Out application scenario

#### Duration

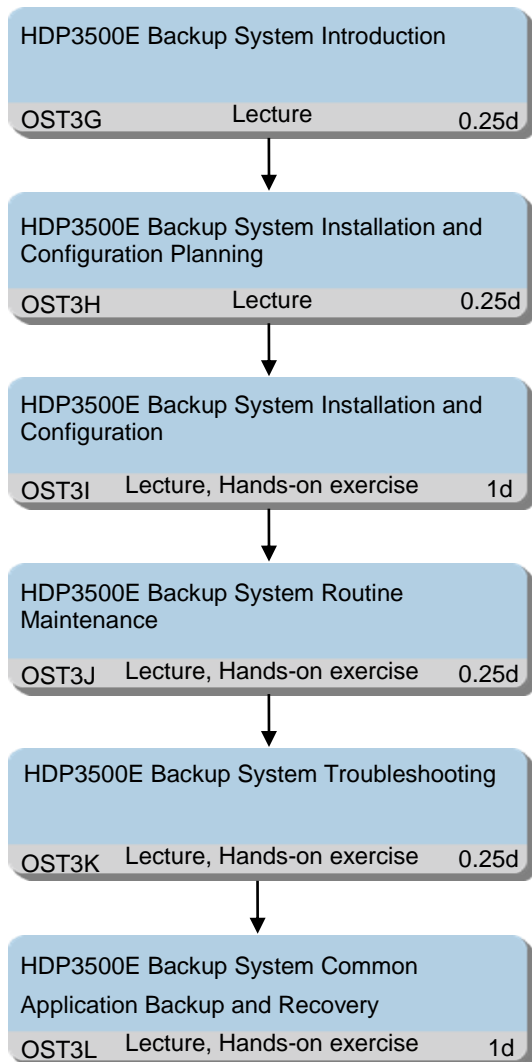
3 working days

#### Class Size

Min 6, Max 12

## 2.6.4 HDP3500E Backup System Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Managers  
Planners and Designers

### Prerequisites

- Know storage foundation
- Know Windows, Linux OS operation
- Know database knowledge and operation

### Objectives

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

- Describe HDP3500E product type, position, main function, application scenario
- Be familiar with HDP3500E product hardware installation planning



- Be familiar with HDP3500E product network, deployment and configuration planning
- Command HDP3500E product hardware installation
- Command HDP3500E typical networking
- Command HDP3500E basic configuration
- Be familiar with HDP3500E maintenance tool method
- Command HDP3500E routine maintenance method
- Be familiar with HDP3500E upgrade process and notice
- Be familiar with HDP3500E product troubleshooting method
- Know HDP3500E product fault case
- Command Database backup and recovery
- Command Database backup and recovery
- Know Database backup and recovery
- Know BMR backup and recovery

#### Training Content

##### OST3G HDP3500E Backup System Introduction

- HDP3500E product introduction
  - HDP3500E Positioning
  - HDP3500E Software and Hardware
  - HDP3500E Functional

##### OST3H HDP3500E Backup System Installation and Configuration Plan

- HDP3500E Installation and Configuration plan
  - Planning for hardware installation
  - Planning for application (software) installation

##### OST3I HDP3500E Backup System Installation and Configuration

- HDP3500E installation
  - Installation Process
  - Checking before Hardware Installation
  - Hardware Connection Procedures
  - Checking after Hardware Installation
  - Software installation and deployment
  - Caution
- Basic configuration
  - HDP3500E Initialization
  - Introduce for CLI tools
  - Introduce for NetBackup administration console
  - Client Installation and Configuration
  - Configuration File Backup and Recovery
- Typical Cases
  - Host name and IP modification in Backup Domain
  - Hosts file Modification
  - NetBackup log Description

- Schedule Configuration
- Backup Performance Tuning and Parameter Configuration

#### OST3J HDP3500E Backup System Routine Maintenance

- Routine maintenance
  - Checking Indicators
  - Using the ISM
  - Modifying System Configuration
  - Adding Media Servers
  - Using the NetBackup Administration Console
  - Maintenance Backup Policy
  - Using the Maintenance Tool
- System upgrade
  - Summarize
  - Preparation before upgrade
  - Process and steps of upgrade
  - Operation after upgrade
  - Fallback method

#### OST3K HDP3500E Backup System Troubleshooting

- Troubleshooting
  - Troubleshooting process
  - Troubleshooting method of handling
  - Case study

#### OST3L HDP3500E Backup System Common Application Backup and Recovery

- BMR backup and recovery
  - HDP3500E G3 BMR Overview
  - HDP3500E G3 BMR Backup
  - HDP3500E G3 BMR Restoration
- Database Backup and recovery
  - Database Backup Infrastructure
  - Configure the Database Server
  - Database Backup and Recovery in Single-Host Environment
  - Database Backup and Recovery in HA/RAC Environment
- Database backup and recovery
  - Introduction to Database
  - Preparations for Database Backup and Recovery
  - Database Backup and Recovery in Single-Host Environment
  - Database Backup and Recovery in Cluster Environment
  - Database Disaster Recovery
- Database backup and recovery
  - Database Backup and Recovery Infrastructure
  - Backing Up the Database
  - Recovering the Database

Duration

3 working days

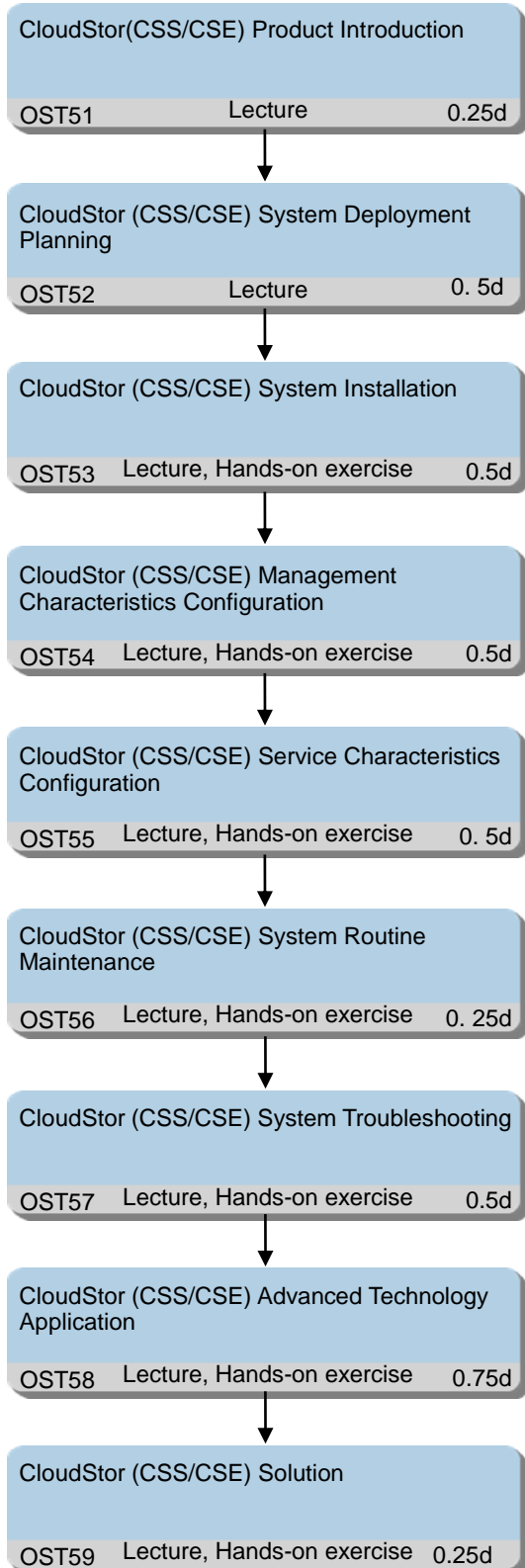
Class Size

Min 6, Max 12

## 2.7 Cloud Storage Training Programs

### 2.7.1 CloudStor(CSS/CSE) Cloud Storage Deployment and Management Training

Training Path



## Target Audience

Operators and Maintainers

Managers

Planners and Designers

## Prerequisites

- Know Windows、Linux OS knowledge
- Know TCP/IP
- Know storage virtualization knowledge

## Objectives

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

- Describe Cloudstor product type, position, hardware, software, application scenario
- Be familiar with CSS/CSE product hardware installation planning
- Be familiar with CSS/CSE product deployment and configuration planning
- Command CSS/CSE product hardware installation
- Command CSS/CSE typical networking
- Command CSS/CSE system deployment tool
- Command CSS/CSE basic operation configuration
- Command CSS/CSE management characteristics
- Be familiar with CSS/CSE operation and management
- Know CSS/CSE service characteristics
- Command CSS/CSE service characteristics configuration method and steps
- Be familiar with CSS/CSE maintenance tool
- Command CSS/CSE routine maintenance method
- Be familiar with CSS/CSE maintenance process and notice
- Know fault class, principle of fault location
- Command fault location method, failure criteria
- Be familiar with troubleshooting process
- Know CSS/CSE system principle
- Know CSS/CSE advanced technology
- Describe Cloudstor main solution
- Be familiar with Cloudstor solution

## Training Content

### OST51 CloudStor (CSS/CSE) Product Introduction

- CSS/CSE product introduction
  - CSS/CSE product configuration and position
  - CSS/CSE product hardware and software
  - CSS/CSE product application scenario
  - CSS/CSE application case

### OST52 CloudStor (CSS/CSE) System Deployment Plan

- CSS/CSE hardware installation plan

- Installation plan
- Network plan
- IP address plan
- CSS/CSE deployment Plan introduction
  - Basic operation configuration plan process
  - Physical disk resource plan

#### OST53 CloudStor (CSS/CSE) System Installation

- Hardware installation
  - Device installation
  - Device connection
  - Device power-on
- Typical networking and connection
  - Typical networking
  - Physical connection
- Software and deployment
  - Preparative before installation
  - Installation process
  - Tool and software needed
  - System deployment
  - Checking after deployment
  - Deployment notice
- Initiation configuration

#### OST54 CloudStor (CSS/CSE) Management Characteristics Configuration

- CSS management characteristics configuration
  - Device management
  - Service resource management and monitoring
  - Service management
  - Alarm function
  - User management
  - Performance management
  - Energy saving
  - Deployment and upgrade

#### OST55 CloudStor (CSS/CSE) Service Characteristics Configuration

- CSS service characteristics
  - Namespace characteristics and configuration
  - NFS/CIFS service introduction and configuration
  - Deduplication introduction and configuration
  - Data migration and configuration
- CSE service characteristics
  - Service introduction
  - Service division
  - Space rental describe

- Self management describe
- Network disk describe
- Online backup describe
- Near-line backup describe

#### OST56 CloudStor (CSS/CSE) System Routine Maintenance

- Maintenance tool introduction
  - Function introduction
  - Tool installation
- Routine maintenance introduction
  - Routine inspection
  - Information collection
- System version upgrade

#### OST57 CloudStor (CSS/CSE) System Troubleshooting

- CSS/CSE troubleshooting
  - Fault class
  - Principle of fault location
  - Fault location method
  - Failure criteria
  - Troubleshooting process
  - Typical case

#### OST58 CloudStor (CSS/CSE) Advanced Technology and Application

- CSS file storage mode
  - Metadata and data separation
  - Object storage mode
  - SSD metadata acceleration
  - Metadata HASH find
- CSS redundant data management
  - Erasure Code between nodes
  - Data scan
- CSS file storage space management
  - Data deduplication principle
  - Data deduplication process
  - Data deduplication file write
  - Data deduplication file read
  - Data compression
  - Data migration
- CSE multi-tenant architecture
- CSE multiple instance of metadata

#### OST59 CloudStor (CSS/CSE) Solution

- CSS/CSE CloudStor solution
  - Enterprise data centralized backup scenario
  - IPTV application scenario

- Space operation service scenario
- Traditional telecom business platform for cloud integration
- High performance computing (HPC)storage application
- CSS/CSE CloudStor solution typical configuration
  - Typical networking
  - Hardware installation
  - Software deployment and configuration
  - Installation checking

Duration

4 working days

Class Size

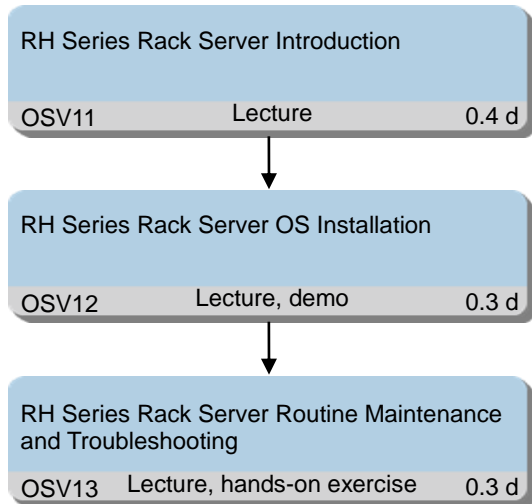
Min 6, Max 12



## 2.8 Server Products Training Programs

### 2.8.1 RH Series Rack Server Deployment and Management Training

#### Training Path



#### Target Audience

Operators and Maintainers  
Administrators

#### Prerequisites

- Be familiar with Windows and Linux
- Know basic knowledge of TCP/IP
- Know basic knowledge of server

#### Objectives

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

- Describe the models, position, main functions and application scenarios of RH series servers
- Master the hardware structure, views, interfaces and hardware installation of RH series servers
- Master BMC configuration of RH series servers
- Master RAID plan and configuration of RH series servers
- Master OS installation method of RH series servers
- Master the steps, methods and cautions of parts replacement of RH series servers
- Master the methods of log collection of RH series servers
- Be familiar with basic troubleshooting methods of RH series servers

#### Training Content

##### OSV11 RH Series Rack Server Introduction

- Models, position, main functions and application scenarios of RH series servers
- Hardware structure, views, interfaces and hardware installation of RH series servers

##### OSV12 RH Series Rack Server OS Installation

- BMC configuration of RH series servers
- RAID plan and configuration of RH series servers
- Master OS installation method of RH series servers

#### OSV13 RH Series Rack Server Routine Maintenance and Troubleshooting

- Steps, methods and cautions of parts replacement of RH series servers
- Methods of log collection of RH series servers
- Basic troubleshooting methods of RH series servers

#### Duration

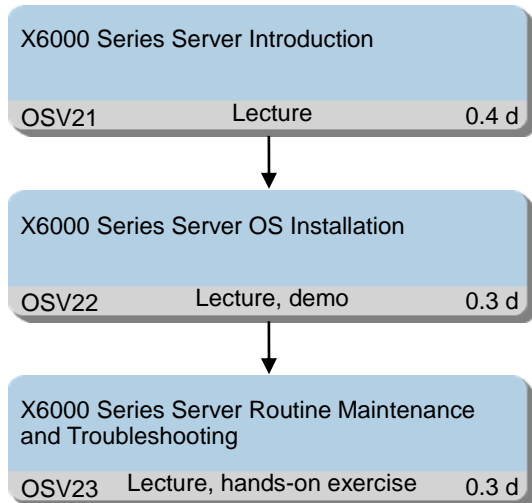
1 working days

#### Class Size

Min 6, max 12

## 2.8.2 X6000 Series Server Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Administrators

### Prerequisites

- Be familiar with Windows and Linux
- Know basic knowledge of TCP/IP
- Know basic knowledge of server

### Objectives

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

- Describe the models, position, main functions and application scenarios of X6000 series servers
- Master the hardware structure, components, views, modules, blade types and hardware installation of X6000 series servers
- Master BMC configuration of X6000 series servers
- Master RAID plan and configuration of X6000 series servers
- Master OS installation method of X6000 series servers
- Master the steps, methods and cautions of parts replacement of X6000 series servers
- Master the methods of log collection of X6000 series servers
- Be familiar with basic troubleshooting methods of X6000 series servers

### Training Content

#### OSV21 X6000 Series Server Introduction

- Models, position, main functions and application scenarios of X6000 series servers
- Hardware structure, components, views, modules, blade types and hardware installation of X6000 series servers

#### OSV22 X6000 Series Server OS Installation

- BMC configuration of X6000 series servers
- RAID plan and configuration of X6000 series servers
- OS installation method of X6000 series servers

#### OSV23 X6000 Series Server Routine Maintenance and Troubleshooting

- Steps, methods and cautions of parts replacement of X6000 series servers
- Methods of log collection of X6000 series servers
- Basic troubleshooting methods of X6000 series servers

#### Duration

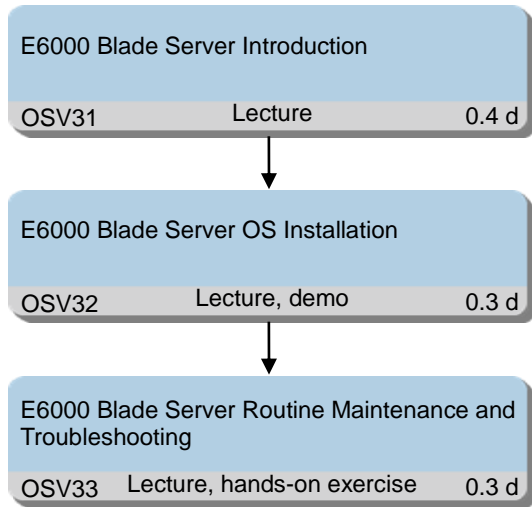
1 working days

#### Class Size

Min 6, max 12

## 2.8.3 E6000 Series Blade Server Deployment and Management Training

### Training Path



### Target Audience

Operators and Maintainers  
Administrators

### Prerequisites

- Be familiar with Windows and Linux
- Know basic knowledge of TCP/IP
- Know basic knowledge of server

### Objectives

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

- Describe the models, position, main functions and application scenarios of E6000 series servers
- Master the hardware structure, views, interfaces and hardware installation of E6000 series servers
- Master iMana function, management and maintenance of E6000 blade server
- Master RAID plan and configuration of E6000 series servers
- Master OS installation method of E6000 series servers
- Master the steps, methods and cautions of parts replacement of E6000 series servers
- Master the methods of log collection of E6000 series servers
- Be familiar with basic troubleshooting methods of E6000 series servers

### Training Content

#### OSV31 E6000 Blade Server Introduction

- Models, position, main functions and application scenarios of E6000 series servers
- Hardware structure, views, interfaces and hardware installation of E6000 series servers

#### OSV32 E6000 Blade Server OS Installation

- iMana function, management and maintenance of E6000 blade server
- RAID plan and configuration of E6000 series servers

- OS installation method of E6000 series servers

#### OSV33 E6000 Blade Server Routine Maintenance and Troubleshooting

- Steps, methods and cautions of parts replacement of E6000 series servers
- Methods of log collection of E6000 series servers
- Basic troubleshooting methods of E6000 series servers

#### Duration

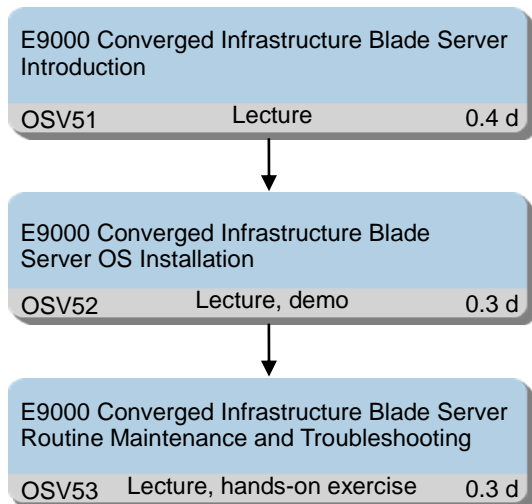
1 working days

#### Class Size

Min 6, max 12

## 2.8.4 E9000 Converged Infrastructure Blade Server Deployment and Management Training

#### Training Path



#### Target Audience

Operators and Maintainers  
Administrators

#### Prerequisites

- Be familiar with Windows and Linux
- Know basic knowledge of TCP/IP
- Know basic knowledge of server

#### Objectives

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

- Describe the models, position, main functions and application scenarios of E9000 Converged Infrastructure Blade Server
- Master the hardware structure, views, interfaces and hardware installation of E9000 Converged Infrastructure Blade Server

- Master BMC function, management and maintenance of E9000 Converged Infrastructure Blade Server
- Master RAID plan and configuration of E9000 Converged Infrastructure Blade Server
- Master OS installation method of E9000 Converged Infrastructure Blade Server
- Master the steps, methods and cautions of parts replacement of E9000 Converged Infrastructure Blade Server
- Master the methods of log collection of E9000 Converged Infrastructure Blade Server
- Be familiar with basic troubleshooting methods of E9000 Converged Infrastructure Blade Server

#### Training Content

##### OSV51 E9000 Converged Infrastructure Blade Server Introduction

- Models, position, main functions and application scenarios of E9000 Converged Infrastructure Blade Server
- Hardware structure, views, interfaces and hardware installation of E9000 Converged Infrastructure Blade Server

##### OSV52 E9000 Converged Infrastructure Blade Server OS Installation

- BMC function, management and maintenance of E9000 Converged Infrastructure Blade Server
- RAID plan and configuration of E9000 Converged Infrastructure Blade Server
- OS installation method of E9000 Converged Infrastructure Blade Server

##### OSV53 E9000 Converged Infrastructure Blade Server Routine Maintenance and Troubleshooting

- Steps, methods and cautions of parts replacement of E9000 Converged Infrastructure Blade Server
- Methods of log collection of E9000 Converged Infrastructure Blade Server
- Basic troubleshooting methods of E9000 Converged Infrastructure Blade Server

#### Duration

1 working days

#### Class Size

Min 6, max 12

## 2.9 Cloud Computing Training Programs

### 2.9.1 Desktop Cloud Solution(R2) Deployment and Management Training

#### Training Path

Desktop Cloud Solution(R2) Deployment and Management

OCL12 Lecture, hands-on exercise 3 d

#### Target Audience

Operators and maintainers

Administrators

Planners and designers

#### Prerequisites

- Be familiar with PC operating system
- Know basic knowledge of datacom
- Know basic knowledge of server
- Know basic knowledge of storage

#### Objectives

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

- Describe the application scenario of Cloud Computing
- Describe the key features of Cloud Computing
- Describe the concept and technology of virtual machine
- Describe the concept and technology of virtual network
- Describe the concept and technology of virtual storage
- Describe the basic concept of storage
- Describe the protocol of storage
- Describe the RAID function of storage
- Describe the backup and redundancy technology of storage
- Describe the security solution of Cloud Computing
- Describe the hardware structure of SingleCLOUD
- Describe the software structure of SingleCLOUD
- Describe the structure and configuration of E6000
- Describe the structure and configuration of S3900
- Describe the structure of Galax8800
- Describe the components and functions of Galax8800
- Describe the installation of Galax8800
- Describe the routine operations and maintenance of Galax8800
- Describe the structure of VDesktop6000
- Describe the components and functions of VDesktop6000
- Describe the installation of VDesktop6000



- Describe the routine operations and maintenance of VDesktop6000
- Describe the image creation procedure
- Describe the creation and assignment of VM
- Describe the configuration of TC

## Training Content

### OCL12 Desktop Cloud Solution Deployment and Management

- Cloud computing foundations
  - The background of cloud computing
  - The concept and features of cloud computing
  - The value of cloud computing
  - The applications of cloud computing
  - The evolution of cloud computing
- Cloud computing technology -- virtualization
  - Virtualization introduction
  - Virtual machine technology
  - Virtual network technology
  - Virtual storage technology
  - VM management technology
- Cloud computing technology -- storage
  - Storage introduction
  - RAID technology
  - Backup and redundancy technology
- Cloud computing technology -- security
  - Security introduction
  - Infrastructure security
  - Network security
  - Data security
  - Management security
  - Virtualization security
  - Common security equipment list
- SingleCLOUD solution introduction
  - SingleCLOUD solution introduction
  - Hardware structure of SingleCLOUD
  - Software structure of SingleCLOUD
  - Sub-solutions of SingleCLOUD
  - SingleCLOUD deployment
- E6000 server introduction
  - E6000 server introduction
  - Functions of management module
  - RAID configuration
  - Supported OSs

- Maintenance tools
- S3900 introduction
  - S3900 introduction
  - Functions and features
  - Buttons and indicators
  - System connections
  - Configurations and maintenance
- Galax8800 introduction
  - Galax8800 introduction
  - Galax8800 components
  - Galax8800 functions and features
- Galax8800 features
  - Virtual private cloud
  - Multi NICs
  - Security Group
  - VM creation
  - VM online migration
  - Elastic IP and NAT
  - VNC login
- Galax8800 installation
  - Introduction
  - Network configuration
  - Deployment principles
  - Data plan
  - Installation procedure
- Galax8800 operations and maintenance
  - System introduction
  - VM management
  - Routine operations and maintenance
- VDesktop6000 introduction
  - VDesktop6000 introduction
  - VDesktop6000 structure and components
  - VDesktop6000 service process
- VDesktop6000 installation
  - VDesktop6000 introduction
  - VDesktop6000 deployment
  - VDesktop6000 installation
- VDesktop6000 operations and maintenance
  - Desktop Cloud Service and Maintenance System introduction
  - Functions of Desktop Cloud Service and Maintenance System
- User VM image creation
  - Image introduction

- Environment requirements of image creation
- Procedure of image creation
- TC introduction
  - TC introduction
  - TC operations

Duration

3 working days, including 1.5 days of hands-on practice

Class Size

Min 6, max 12

## 2.9.2 Desktop Cloud Solution(R3) Deployment and Management Training

### Training Path

Desktop Cloud Solution(R3) Deployment and Management

OCL15 Lecture, hands-on exercise 3 d

### Target Audience

Operators and maintainers

Administrators

Planners and designers

### Prerequisites

- Be familiar with PC operating system
- Know basic knowledge of datacom
- Know basic knowledge of server
- Know basic knowledge of storage

### Objectives

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

- Describe the application scenario of Cloud Computing
- Describe the key features of Cloud Computing
- Describe the concept and technology of virtual machine
- Describe the concept and technology of virtual network
- Describe the concept and technology of virtual storage
- Describe the basic concept of storage
- Describe the protocol of storage
- Describe the RAID function of storage
- Describe the backup and redundancy technology of storage
- Describe the structure and configuration of server
- Describe the structure and configuration of storage
- Describe the structure of FusionSphere
- Describe the components and functions of FusionSphere
- Describe the installation of FusionSphere
- Describe the routine operations and maintenance of FusionSphere
- Describe the structure of FusionAccess
- Describe the components and functions of FusionAccess
- Describe the installation of FusionAccess
- Describe the routine operations and maintenance of FusionAccess
- Describe the image creation procedure
- Describe the creation and assignment of VM
- Describe the configuration of TC

## Training Content

### OCL12 Desktop Cloud Solution Deployment and Management

- Cloud computing foundations
  - The background of cloud computing
  - The concept and features of cloud computing
  - The value of cloud computing
  - The applications of cloud computing
  - The evolution of cloud computing
- Cloud computing technology -- virtualization
  - Virtualization introduction
  - Virtual machine technology
  - Virtual network technology
  - Virtual storage technology
  - VM management technology
- Cloud computing technology -- storage
  - Storage introduction
  - RAID technology
  - Backup and redundancy technology
- Server product introduction
  - Server product introduction
  - Functions of management module
  - RAID configuration
  - Supported OSs
- Storage product introduction
  - Storage product introduction
  - Functions and features
  - System connections
  - Configurations and maintenance
- FusionSphere introduction
  - FusionSphere introduction
  - FusionSphere components
  - FusionSphere functions and features
- FusionSphere installation
  - Introduction
  - Network configuration
  - Deployment principles
  - Data plan
  - Installation procedure
- FusionSphere operations and maintenance
  - System introduction
  - VM management

- Routine operations and maintenance
- FusionAccess introduction
  - FusionAccess introduction
  - FusionAccess structure and components
  - FusionAccess service process
- FusionAccess installation
  - FusionAccess introduction
  - FusionAccess deployment
  - FusionAccess installation
- FusionAccess operations and maintenance
  - Desktop Cloud Service and Maintenance System introduction
  - Functions of Desktop Cloud Service and Maintenance System
- User VM image creation
  - Image introduction
  - Environment requirements of image creation
  - Procedure of image creation
- TC introduction
  - TC introduction
  - TC operations

#### Duration

3 working days, including 1.5 days of hands-on practice

#### Class Size

Min 6, max 12

## 2.9.3 FusionCube Solution Deployment and Management Training

### Training Path

FusionCube Solution Deployment and Management

OCL13 Lecture, hands-on exercise 3 d

### Target Audience

Operators and maintainers

Administrators

Planners and designers

### Prerequisites

- Be familiar with PC operating system
- Know basic knowledge of datacom
- Know basic knowledge of server
- Know basic knowledge of storage

### Objectives

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

- Describe FusionCube solution
- Describe the structure and functions of FusionCube
- Describe the structure and functions of FusionStorage
- Describe the security solution of FusionCube
- Describe the hardware structure of FusionCube
- Describe the feature of dynamic resource adjust
- Describe the feature of distributed switches
- Describe the feature of access control based on roles
- Describe the feature of memory multiplexing
- Describe the feature of data backup and recovery
- Describe the feature of integrated resource management
- Describe the feature of VM snapshot
- Describe the feature of elastic application
- Describe the feature of application automatic deployment
- Describe the feature of automatic thin provisioning
- FusionManager installation and configuration
- FusionStorage installation and configuration
- FusionCube upgrade patch introduction
- FusionCube routine maintenance
- FusionCube troubleshooting

### Training Content

OCL13 FusionCube Solution Deployment and management

- FusionCube solution introduction
  - The value of FusionCube
  - The structure of FusionCube
  - FusionCube series products
  - The main functions of FusionCube
- FusionManager structure
  - FusionManager introduction
  - FusionManager structure
  - FusionManager functions and features
- FusionStorage structure
  - FusionStorage principles
  - FusionStorage functions
  - FusionStorage advantages
  - FusionStorage application scenarios
  - FusionStorage operations and maintenance
- FusionCube security solution introduction
  - Security architecture
  - Access security
  - Data security
  - Network security
  - Virtualization security
  - Management security
  - Infrastructure security
  - Physical security
- FusionCube hardware introduction
  - Overview
  - Components introduction
  - Internal connections
  - Project deployment
- Access control based on roles of FusionCube
  - The concept and key technologies of access control based on roles
  - Unified certification
  - Privilege control
  - Joint with 3<sup>rd</sup> party
  - Domain management of resources
  - Operation log audit
- Integrated resource management of FusionCube
  - Integrated resource management introduction
  - Equipment management
  - Resource pool management
  - Resource cluster management
  - Virtual machine management



- Memory multiplexing of FusionCube
  - Policy of memory multiplexing
  - Method of memory multiplexing
- Data backup and recovery of FusionCube
  - Concept of virtual machine backup
  - Content of virtual machine backup
  - Solution of virtual machine backup
- Virtual machine snapshot of FusionCube
  - Full snapshot
  - Incremental snapshot
  - Memory snapshot
- Distributed switches of FusionCube
  - Application scenarios and values
  - Distributed switches technology principles
  - Distributed switches operations
- Dynamic resource adjust of FusionCube
  - Customer requirements
  - Dynamic resource adjust principles
  - Dynamic resource adjust operations
- Application automatic deployment of FusionCube
  - Application automatic deployment principles
  - Application automatic deployment operations
- Elastic application of FusionCube
  - Elastic application principles
  - Elastic application configurations
- Automatic thin provisioning of FusionCube
  - Automatic thin provisioning advantages
  - Automatic thin provisioning principles
  - Automatic thin provisioning configurations and operations
- FusionCube operations and maintenance
  - FusionCube maintenance operations
  - FusionCube information collection

#### Duration

3 working days, including 1.5 days of hands-on practice

#### Class Size

Min 6, max 12

## 2.9.4 FusionSphere Solution Deployment and Management Training

### Training Path

FusionSphere Solution Deployment and Management

OCL14 Lecture, hands-on exercise 3 d

### Target Audience

Operators and maintainers

Administrators

Planners and designers

### Prerequisites

- Be familiar with PC operating system
- Know basic knowledge of datacom
- Know basic knowledge of server
- Know basic knowledge of storage

### Objectives

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

- Describe FusionSphere solution
- Describe FusionSphere installation procedure
- Describe FusionSphere virtualized computing feature
- Describe FusionSphere virtualized storage feature
- Describe FusionSphere virtualized network feature
- Describe elastic load balance feature
- Describe elastic computing feature
- Describe VPC feature
- Describe data backup and recovery feature
- Describe FusionCompute structure and functions
- Describe FusionCompute routine operations and maintenance
- Describe FusionCompute upgrade procedure

### Training Content

#### OCL13 FusionSphere Solution Deployment and Management

- FusionSphere solution introduction
  - The value of FusionSphere solution
  - The structure of FusionSphere
  - FusionSphere series products
  - The main functions of FusionSphere
- FusionSphere installation
  - FusionSphere installation principles
  - FusionSphere installation method

- FusionCompute structure and principles
  - FusionCompute structure introduction
  - FusionCompute features introduction
- FusionCompute operations and maintenance
  - FusionCompute maintenance operations
  - FusionCompute information collection
- FusionSphere virtualized computing feature
  - CPU QoS
  - Dynamic resource adjust
  - USB device simulation
  - Remote CD-ROM mount
- FusionSphere virtualized storage feature
  - Storage model
  - Virtualized storage principles
  - Virtualized storage feature introduction
- FusionSphere virtualized network feature
  - Application scenarios and values
  - Distributed switches principles
  - Distributed switches operations
- FusionSphere elastic load balance
  - Elastic load balance principles
  - Elastic load balance functions and features
  - Elastic load balance application scenarios
  - Elastic load balance configurations
- FusionSphere elastic computing
  - Elastic computing
  - Virtualized node and service cluster
  - Image and image server
  - Simple VPC
  - Multi NICs
  - Security Group
  - Virtual machine
  - User volume
  - Elastic IP and NAT
  - VNC login
- FusionSphere VPC
  - VPC feature
  - VPC configuration procedure
- FusionSphere disaster recovery
  - The value of disaster recovery
  - VM backup solution
  - Active-active disaster recovery solution

**Duration**

3 working days, including 1.5 days of hands-on practice

**Class Size**

Min 6, max 12

## 2.10 Data Center Training Programs

### 2.10.1 Micro DC Deployment and Management Training

#### Training Path

Micro DC Deployment and Management

ODC11 Lecture, Hands-on exercise 1d

#### Target Audience

Operators and Maintainers

Administrators

Planners and Designers

#### Prerequisites

- Know basic computer knowledge
- Know basic IP technology and knowledge
- Know server knowledge

#### Objectives

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

- Describe the software and hardware of the Micro DC
- Master the installation and configuration of the Micro DC
- Master the basic operations and functions of the Micro DC

#### Training Content

##### ODC11 Micro DC Deployment and Management

- Micro DC Deployment and Management
  - Micro DC Introduction
  - Micro DC Installation
  - Micro DC Basic Configuration
  - Micro DC Operation and Maintenance

#### Duration

1 working day

#### Class Size

Min 6, Max 12

## 2.10.2 ManageOne Solution Deployment and Management Training

### Training Path

ManageOne Solution Deployment and Management

ODC12 Lecture, Hands-on exercise 2d

### Target Audience

Operators and Maintainers

Administrators

Planners and Designers

### Prerequisites

- Know about DC solution
- Familiar with DC operation and maintenance knowledge
- Familiar with DC business knowledge

### Objectives

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

- Describe the overall architecture of the ManageOne solution
- Describe the installation and deployment of the ManageOne solution
- Describe the basic features of the ManageOne solution
- Describe the operation and maintenance of ManageOne solution
- Describe the business features and functions of ManageOne solution

### Training Content

#### ODC12 Service Shared Manage Center Deployment and Management

- DC SSMC Introduction
  - DC SSMC Project Background
  - DC SSMC System Plan Vision
  - DC SSMC Logical Architecture
  - DC SSMC Network Topology
  - DC SSMC System Position
  - DC SSMC Service Module Partition
  - DC SSMC Operation Service Overview
  - DC SSMC Maintenance Service Overview
  - DC SSMC User Role and Application Scenario
- ManageOne Solution Introduction
  - Date Center Management Development and Chanlleges
  - Huawei Data Center Management Solution
  - Success Case
- ManageOne Solution Operation and Maintenance Introduction
  - Operaion and Maintenance Overview

- Service Assurance(SA) Software Architecture
- SA Function Modules and Features
- SA deep integration with SSMC(Service Shared Management Center)
- ManageOne Solution Business Introduction
  - Business Overview
  - Administrators Usage Introduction
  - Introduce the Usage of Business Manager
  - Introduce the Usage of enterprise administrators
  - End-User Usage Introduction
  - Introduce the usage of individual customers
- ManageOne ITIL(Information Technology Infrastructure Library) Introduction
  - ITIL Solution Introduction
  - ITIL Install Procedure of the Components
  - ITIL Process Introduction

Duration

2 working days

Class Size

Min 6, Max 12

## 2.11 IT Design Training Programs

### 2.11.1 Enterprise Storage Area Network(SAN) Design Training

#### Training Path

Enterprise Storage Area Network(SAN) Design

OST61

Lecture

1d

#### Target Audience

Planners and Designers

Manager

#### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

#### Objectives

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

- Be familiar with SAN system
- Be familiar with SAN system plan process
- Be familiar with SAN system plan methods

#### Training Content

OST61 Enterprise Storage Area Network(SAN) Design

- SAN storage system design introduction
- SAN design
  - SAN scheme design principle and process
  - Hosts level design
  - SAN network level design
  - Storage level design
- SAN scheme design case
- Huawei SAN storage product typical application scenario

#### Duration

1 working day

#### Class Size

Min 6, Max 12



## 2.11.2 Enterprise Network Attached Network (NAS) Design Training

### Training Path

Enterprise Network Attached Network (NAS) Design		
OST62	Lecture	1d

### Target Audience

Planners and Designers

Manager

### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

### Objectives

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

- Be familiar with NAS system
- Be familiar with NAS system plan process
- Be familiar with NAS system plan methods

### Training Content

OST62 Enterprise Network Attached Storage(NAS) Design

- NAS storage system design introduction
- NAS design
  - NAS scheme design principle and process
  - Hosts level design
  - NAS network level design
  - NAS Storage level design
- NAS scheme design case
- Huawei NAS storage product typical application scenario

### Duration

1 working day

### Class Size

Min 6, Max 12

## 2.11.3 Enterprise Backup system and Network Design Training

### Training Path

Enterprise Backup system and Network Design		
OST63	Lecture	1d

### Target Audience

Planners and Designers

Manager

### Prerequisites

- Know PC OS
- Know basal computer knowledge
- Know basal storage technology

### Objectives

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

- Be familiar with backup network and system
- Be familiar with backup solution plan process
- Be familiar with backup solution plan methods

### Training Content

OST63 Enterprise Backup System and Network Design

- Backup system design introduction
- Backup design
  - Backup network design principle and process
  - Common Backup network
  - Backup strategy
  - Backup job design
- Backup scheme design case
- Huawei Backup system typical application scenario

### Duration

1 working day

### Class Size

Min 6, Max 12

## 2.11.4 Enterprise Data Center Network Design Training

### Training Path

Enterprise Data Center Network Design

ODC21

Lecture

2d

### Target Audience

Planners and Designers

Manager

### Prerequisites

- Know IT and network basic knowledge
- Know basic security knowledge
- Know network deployment experience

### Objectives

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

- Describe DC Network Overall Architecture
- Describe DC Network Layered Design
- Describe DC Network Zoned Design
- Describe DC Network Plane Design
- Describe the Intercommunication of Multiple DC Design
- Describe the DC Network Application Acceleration Design
- Describe the Cloud Computing DC Network solution
- Describe DC Network products requirement and features, Cloud Engine Devices

### Training Content

#### ODC21 Enterprise Data Center Network Design

- DC Network Architecture Solution Overview
  - DC Network Architecture
  - DC Network Trend
  - DC Network Solution
- DC Network Architecture Design
  - DC Network Overall Architecture Design
  - DC Network Layered Design
  - DC Network Zoned Design
  - DC Network Plane Design
  - DC Network Service Plan
  - Intercommunication of Multiple DC Design
- DC Network Application Acceleration Solution Design
  - DC Load Balance Solution
  - DC Application Acceleration Solution

- DC Net Stream flow monitor Solution
- Huawei Cloud Fabric DC Network Solution
  - The Challenges of the Cloud Computing DC network
  - Huawei Cloud Fabric DC Network Solution
  - Huawei CloudEngine Products Introduction

Duration

2 working days

Class Size

Min 6, Max 12

## 2.11.5 Enterprise Data Center Security Design Training

### Training Path

Enterprise Data Center Security Design

ODC22

Lecture

1d

### Target Audience

Planners and Designers

Manager

### Prerequisites

- Familiar with DC Network basic knowledge
- Familiar with Security Fundamental
- Familiar with Security network deployment experience

### Objectives

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

- Describe DC Security Architecture Design Principle
- Describe DC Security Design Solution
- Describe DC Security Threats and Protection Solution
- Describe DC Infrastructure Security
- Describe DC Network Layer Security
- Describe DC Host and Application Security
- Describe DC User Security Policy and Security Management
- Describe DC Intrusion Detection Mechanism and Access Control Policy

### Training Content

ODC22 Enterprise Data Center Security Design

- DC Security Problems and Protection Solution
  - Security Trend
  - DC Security Analysis and Protection Solution
  - The importance of DC Security
- DC Security Solution
  - DC Security Architecture
  - DC Layered Security Design
  - Security Policy Configuration Principle
  - DC Zoned Security Deployment
  - DC Security Solution Features
  - DC Security Evaluation and Reinforcement

### Duration

1 working day

Class Size

Min 6, Max 12

## 2.11.6 Enterprise Data Center Disaster Recovery and Backup Design Training

### Training Path

Enterprise Data Center Disaster Recovery and Backup Design

ODC23

Lecture

2d

### Target Audience

Planners and Designers

Manager

### Prerequisites

- Familiar with the IT system architecture and the basic knowledge
- Familiar with storage and SAN system technology
- Familiar with backup and disaster recovery basic knowledge and experience

### Objectives

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

- Description of DC disaster recovery subsystem basic concepts and related devices
- Description of DC disaster recovery requirement analysis
- Description of DC disaster recovery solution design principles, processes and methods
- Master DC disaster recovery design method, case and key technology
- Master of disaster recovery production center design
- Master of disaster recovery backup center design
- Master of disaster recovery system link design
- Master of disaster recovery system service connection
- Master of principles, processes and methods of Huawei DR solution

### Training Content

#### ODC23 Enterprise Data Center Disaster Recovery and Backup Design

- Data centre disaster recovery solution overview
  - The data and business development brings the IT system requirements
  - The disaster recovery technology trend
  - The disaster recovery business value to customers
- DR system requirement analysis
  - The current status, issues/risks analysis
  - The customers service requirement analysis
  - The customer service objective
- Disaster Recovery design principle
  - The service classification principle
  - The service recovery requirements
  - The disaster recovery level
- Disaster Recovery system design objectives and principles

- DR solution overall goal
- DR solution design principle
- DR solution risk assessment
- DR solution choice and feasibility analysis
- Disaster Recovery solution design
  - The local HA design and case
  - The same city disaster recovery solution design and case
  - The remote disaster recovery solution design and case
  - Key technologies
- DR system maintenance and management
  - The disaster recovery system management
  - The start-up and normal operation
  - The disaster recovery and drill
  - The disaster recovery system troubleshooting

#### Duration

2 working days

#### Class Size

Min 6, Max 12