HW-HCIPCLCO

HUAWEI CERTIFIED ICT PROFESSIONAL CLOUD COMPUTING

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
10 Days	Professional	Cloud	ILT	Huawei Learning Vouchers

INTRODUCTION

The HCIP Cloud Computing Fast Track training covers all concepts relating to, Cloud Desktop Solution Management v3, Cloud Operating System Management and Cloud Resource Pool Management. An understanding of how a cloud operating system management infrastructure is constructed, configuration, management, and a modular understanding of OpenStack applications and principles is also clearly defined, Installing, Configuring and working on the ServiceCenter and OperationCenter consoles is achieved, as well as cloud service management, ManageOne features and Monitoring. Including FusionCloud desktop solution planning and design, installation and deployment, operation and maintenance technologies, best practices and workflows to understand the tools and strategies to Manage, Monitor and Manipulate Huawei's Cloud Desktop Solution using Huawei's Cloud Engine Platforms and Services utilizing Huawei Cloud Engine Hardware and Software. Coupled with an understanding of how cloud resource pools are managed, different deployments of cloud strategies, integration of existing infrastructure, cloud data center architecture, virtualization theory, distributed storage, server virtualization concepts, and operations.

AUDIENCE PROFILE

Aims to train and certify senior engineers who are capable of operating and maintaining FusionCompute virtualization and FusionAccess desktop cloud.

PREREQUISITES

Before attending this course, delegates must:

– Have an understanding of Huawei's Cloud Computing Platform at HCIA level

– Have an understanding of several server and client operating systems and knowledge of applications

– Have an understanding of physical and virtual servers

– Have an understanding of network infrastructure and network security

– Have an understanding and knowledge base of storage strategies

– Have a good working knowledge of virtualization

COURSE OBJECTIVES

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

– Describe Huawei desktop solution

– Know Huawei desktop solution advances

– Know Huawei desktop architecture

– Master Huawei desktop solution application scenarios

– Master Huawei desktop solution component and working principles

– Master Huawei desktop solution planning and deployment

– Master Huawei desktop solution key features

– Master Huawei desktop solution routine maintenance

– Master troubleshooting methods

– Describe Huawei cloud computing solution

- Master Huawei computing virtualization technology
- Master Huawei storage virtualization technology
- Master Huawei Network virtualization technology
- FusionCloud Desktop Solution
- FusionCloud Desktop Provisioning and Management
- FusionCloud Desktop Solution Working Principle and Component Interaction
- FusionCloud Desktop Solution Planning and Design
- FusionCloud Desktop Installation
- Linked Clone Desktop technology and Solution
- Full Memory Desktop Technology and Solution
- GPU Virtualization and Passthrough Technologies and Solutions
- SBC Application Virtualization Technology and Solution
- Huawei FusionCloud Desktop Management and Maintenance
- Huawei FusionCloud Desktop Clients
- Huawei FusionCloud Desktop Troubleshooting

COURSE CONTENT

Lesson 1: Cloud Computing
- Solution Overview
- Cloud Computing Technologies and Evolution
- Data center Evolution
- Virtualization Solution
- Data Protection and Disaster
- Recovery Solution

Lesson 2: Huawei Cloud Computing Solution Overview
- Cloud Computing solution architecture
- Huawei Cloud Computing solution
- Huawei Cloud Datacenter solution architecture
- Huawei virtualization technology

Lesson 3: Huawei computing virtualization technology
- FusionCompute architecture
- FusionCompute VM lifestyle management
- Computing enhancement
- Distributed resource scheduling
- Vm snapshot
- Vm peripheral

Lesson 4: Storage virtualization technology
- Storage type introduction
- Storage virtualization principles
- Storage virtualization features

Lesson 5: Huawei distributed storage system introduction
- FusionStorage solution introduction
- FusionStorage architecture
- FusionStorage deployment and configuration

Lesson 6: Network virtualization introduction
- Network virtualization overview
- Software defined network introduction

Lesson 7: Huawei desktop cloud solution overview
- Desktop cloud solution overview
- Desktop cloud solution specs and features overview
- Desktop provision and management
- Desktop template
- Desktop provision
- Desktop access
- Desktop management
- Huawei desktop cloud solution working principles
- Huawei desktop cloud solution architecture
- Huawei desktop cloud solution working principles

Lesson 8: Huawei desktop cloud solution planning
- Planning the system architecture
- Cluster and management component planning
- Desktop cloud hardware and network planning
- Storage system planning
- Bandwidth calculating
- IP planning
- VLAN planning
- IT infrastructure
- Standard desktop planning case

Lesson 9: Desktop cloud installation
- Desktop installation

Lesson 10: Linked clone technology and solution
- Solution overview
- Working principles
- Deployment planning

Lesson 11: Full memory desktop technology
- Solution overview
- Working principles
- Deployment planning

Lesson 12: GPU virtualization and passthrough technology

- Solution overview
- Working principles
- Deployment planning

Lesson 13: SBC technology and solution
- Solution overview
- Working principles
- Deployment planning
- Application provision
- Application management

Lesson 14: Huawei desktop cloud solution maintenance
- Desktop cloud maintenance overview
- Management and maintenance tools
- FusionSphere platform maintenance
- FusionAccess management and maintenance

Lesson 15: Huawei desktop cloud terminal management
- Terminal management overview
- Managing terminals

Lesson 16: Huawei desktop cloud troubleshooting
- FusionAccess faults overview
- FusionAccess service provision problem
- FusionAccess accessing problems
- FusionAccess performance and experience problem

- FusionAccess peripherals problem
- FusionAccess backup and recovery
- FusionAccess logs collection

Lesson 17: Cloud operating system overview
- What's cloud computing operating system
- Architecture of cloud operating system
- Huawei cloud computing operating system

Lesson 18: Cloud datacenter resources architecture
- Cloud datacenter architecture
- Interconnections of cloud datacenter
- Cloud datacenter resources architecture

Lesson 19: FusionSphere Openstack system overview
- FusionSphere OpenStack overview
- FusionSphere OpenStack architecture
- FusionSphere OpenStack componet introduction

Lesson 20: FusionSphere OpenStack operation and configuration
- FusionSphere Openstack CPS functions
- FusionSphere Openstack CPS configuration

- FusionSphere OpenStack OM functions
- FusionSphere OpenStack OM operations

Lesson 21: ManageOne ServiceCenter introduction
- ServiceCenter overview
- ServiceCenterfunctions and features
- ServiceCenter installing and configuring

Lesson 22: ManageOne ServiceCenter service provision and management
- Organization management
- VDC service provision and management
- Cloud host provision and management
- Cloud storage provision and management
- Network services provision and management

Lesson 23: ManageOne ServiceCenter introduction
- OperationCenter overview
- OperationCenter features
- OperationCenter installing and management

Lesson 24: Datacenter operation management
- Datacenter operation overview
- Datacenter operation methods
- Datacenter operation tools

ASSOCIATED CERTIFICATIONS & EXAM

This course will prepare delegates to take the HCIP Cloud Computing exam # H13-527