

Training: Huawei  
Everyone Learns IT - NFV Technology



FORM OF TRAINING	PRICE	DURATION
E-learning	480 USD	15 days

## TRAINING GOALS:

This course introduces the NFV technical knowledge, including NFV Basis, NFV Network Design, OpenStack Introduction, Vmware Basis, Back-end development language basis

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

- Understand NFV basics overview and value
- Understand the NFV network technology trends, key capabilities and solutions
- Understand the NFV network planning, construction, operation and maintenance of the key points
- Understand the ToC data center overall architecture design and network design related computing resources, storage resources and network resource design
- Understand cloud computing foundation and trends
- Understand the origin and framework of OpenStack. Understand OpenStack in Nova, Swift, Keystone, Neutron, Glance, Cinder, Ceilometer, Heat and other components of the architectural principles
- Understand the advantages of server virtualization and the realization of the way
- Understand the VMware components such as ESXi, vCenter Server, VMware vMotion and Storage vMotion and other components of the characteristics
- Understand VMware virtual machine and management, VMware availability and scalability
- Understand the network and security commonly used in some IP routing, IPv6, VLAN, firewall, QoS, NAT and other common technologies
- Understand the principle of micro service, micro service support framework and design
- Understand the development of open source agreement GPL and open source and closed source difference. Understand a variety of open source monitoring software, open source distributed storage, open source automation management software, open source technology, Internet architecture selection, open source distributed database cache product introduction and selection
- Understand the development process of Docker and the essence of container technology analysis
- Understand the storage RAID, SAN, NAS, backup disaster recovery technology and storage advanced technology applications

- Understand the storage deployment and operation and maintenance management and storage base in big data and cloud

**Target Audience:**

- Everyone interested in topics
- NFV technology related network planners, NFV technology related network operation personnel

**CONSPECT:**

- First week
  - NFV Basis
    - Network Development Trends and NFV Technology
    - NFV Network Architecture
    - Key NFV Capabilities
    - Quiz
  - NFV Network Design
    - Overall Architecture Design for ToC Data Center
    - Computing Resource Design
    - Storage Resource Design
    - Network Resource Design
    - Cloud Management Design
    - Reliability Design
    - Security Design
    - Quiz
  - VMware Basis
    - Introduction to Server Virtualization
    - Introduction to VMware Components
    - ESXi Introduction
    - vCenter Server Introduction
    - Introduction to VMware virtual machines and virtual machine management
    - VMware vMotion & Storage vMotion
    - VMware Availability and Scalability
    - Quiz
- First week test
- Second week
  - OpenStack Introduction
    - The History of OpenStack

- Openstack Architecture
- Nova Introduction
- Swift Introduction
- Keystone Introduction
- Neutron Introduction
- Glance Introduction
- Cinder Introduction
- Ceilometer Introduction
- Heat Introduction
- Quiz
- Docker basis
  - Docker's development
  - Analysis of the essence of LXC technology
  - Docker Platform Architecture
  - Docker's core technology (Build.Ship.Run)
  - Docker platform with the advantages and disadvantages
  - Docker ecosystem of the industry application scenarios and enterprise applications
  - Quiz
- Open source technology foundation
  - Linux System development history
  - The Development History of Open Source Protocol GPL and the Difference between Open Source and Closed Source
  - A variety of open source monitoring software introduction
  - A variety of open source monitoring software introduction
  - All kinds of open source distributed storage introduction
  - All kinds of open source automation management software introduction
  - Selection of Internet Architecture Based on Open Source Technology
  - Open source distributed database caching product introduction
  - Kubernetes Open source product introduction
  - Quiz
- Second Test
- Third week
  - Principles of MicroService Micro Service Support Framework and Design
    - Evolution from Monolithic to Microservice Architecture
    - Design of the Docker-based Microservice Architecture
    - Docker-based Microservice Architecture Analysis

- Microservice Architecture Design Pattern
- Microservice Architecture Management
- Quiz
- Data center core technology network technology
  - IP routing technology
  - MPLS technology description
  - VPN technology description
  - IPv6 technical description
  - VLAN technology description
  - Overview of Network Routine Maintenance
  - QoS technology description
  - Switch Product Description
  - Router Product Description
  - NAT technology description
  - Firewall Product Description
  - Firewall technology description
  - Quiz
- Final Test

## REQUIREMENTS:

No prerequisites.

## Difficulty level



## CERTIFICATE:

The participants will obtain certificates signed by Huawei.

## TRAINER:

Huawei Certified Trainer.

## ADDITIONAL INFORMATION:

Massive Open Online Courses ([MOOCs](#)) series “Everyone Learns IT” works based on the Huawei Learning Cloud Service <http://www.huaweils.com/en>.

Huawei Learning Cloud Services is a set of online learning management system can help companies to build an efficient and easy to use talent management and learning and development online learning platform. Providing include HR management, training management, online learning , e-lab services.

User can access learning cloud from Windows, MAC, iOS, Android.

All Huawei MOOC courses are provided in English.

Duration: Min 3 weeks (15 days).