

Huawei Certified ICT Associate – Datacom

Course Objectives

After completing the training, you will be able to:

- Understand the definition of data communication and the capability model of data communication engineers.
- Understand the network reference model and the entire data communication process.
- Be familiar with the VRP system and be able to perform basic operations.
- Understand IPv4 address protocol and related concepts
- Understand the forwarding principles of Layer 3 devices such as routers and Layer 3 switches.
- Understand the concept of routing and use static route or OSPF to build a Layer 3 network.
- Understand basic Ethernet concepts and describe the functions and working principles of Layer 2 switching devices.
- Be familiar with common Ethernet protocols, such as VLAN, Spanning Tree Protocol , link aggregation and stacking.
- Configure ACLs and AAA to provide basic security solutions for the network.
- Be familiar with the NAT protocol and master the NAT configuration in different scenarios.
- Master the configuration of common services on enterprise networks, such as DHCP, FTP and Telnet.
- Understand basic WLAN concepts and complete basic configurations of small or medium-sized WLAN networks.
- Understand basic WAN concepts and WAN solutions such as MPLS and SR.
- · Have general knowledge of basic concepts of enterprise network management.
- Be familiar with traditional network management and SDN-based network management solutions.
- Have a good command of IPv6 protocols and be able to build small-scale IPv6 networks.
- Have a good command of the campus network construction process. Be able to independently construct small-sized campus networks.
- Understand the basic concepts of SDN and programming automation and master the basics of Python.

Audience

- Engineers who need to master basic datacom knowledge and capabilities, and have capabilities in smalland medium-sized network planning and design, deployment implementation, and O&M optimization
- · Engineers who want to obtain the HCIA-Datacom Certification

Prerequisites

- Be familiar with PC operations.
- Basic understanding of IT technologies and network knowledge

Course Outline

Data Communication and Network Basics

- Data Communication Network Basics
- Network Reference Model
- Huawei VRP Basics

Constructing an Interconnected IP Network

- Network Layer Protocol and IP Addressing
- IP Routing Basics
- OSPF Basics

Constructing an Ethernet Switching Network

- Ethernet Switching Basics
- VLAN Principles and Configuration
- Spanning Tree Protocol
- Ethernet Link Aggregation and Switch Stacking
- Implements Communication Between VLANs

Network Security and Network Access Basics

- ACL Principles and Configuration
- AAA Principles and Configuration
- NAT Basics

Network Services and Applications

WLAN Overview

WAN Basics

• WAN Technology Basics

Network Management and O&M

IPv6 Basics

SDN and Automation Basics

- SDN and NFV Basics
- Network Programming and Automation

Typical Campus Network Architectures and Practices

Associated Certifications

HCIA-Datacom (Huawei Certified ICT Associate-Datacom)

Course Duration

5 days

For More Information Please Contact: Vnohow (Thailand) Co., Ltd. 90/31 Sathorn Thani Building 1, 12FL., North Sathorn Road, Silom, Bangrak, Bangkok 10500 Thailand Tel +662-634-3287-9 Fax +662-634-3299 Email vnohow@vnohow.com Website www.vnohow.com

