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.

Course Prerequisites

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

Audience

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

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

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