HCIP-Datacom-Core Technology V1.0 Exam Outline

Huawei HCIP-Datacom-Core Technology V1.0 Certification Exam

Authentication Name	Exam Code	Exam Name	Language	Exam fee	Exam Duration	Passing Score/Total Score
HCIP-Datacom-Core Technology	H12-821	HCIP-Datacom-Core Technology V1.0	CHS/ENU	300USD	90min	600/1000

Exam Content

The HCIP-Datacom-Core Technology V1.0 exam covers the general core knowledge of all scenarios in the Data communication field, routing basics, OSPF, IS-IS, BGP, routing and traffic control, Ethernet switching technology, multicast, IPv6, network security, network reliability, network service and management, WLAN, and network solutions.

Percentage of knowledge points

Chapter	Percentage
Routing Basics	3%
OSPF Core Knowledge	16%
IS-IS Core Knowledge	8%
BGP Core Knowledge	17%
Routing and Traffic Control	10%
Switching Core Knowledge	7%
Multicast Basics	9%
IPv6 Core Knowledge	3%
Network Security Basics	9%
Network Reliability Basics	8%
Network Service and Management	2%
Large-scale WLAN Architecture	6%
Network Solution	2%

Knowledge Point

Routing Basics

- Introduction to Network Devices
  - Introduction to Network Device Framework

- Packet Processing on Network Devices

- IP Routing Basics

OSPF Core Knowledge

- OSPF Basics
  - Introduction to Dynamic Routing Protocols
  - OSPF Overview
  - OSPF Working Process
  - Basic OSPF Configuration

- OSPF Route Calculation
  - Intra-area route calculation
  - Inter-area route calculation
  - External route calculation

- OSPF Special Area and Other Features
  - Stub area and totally stub area
  - NSSA area and totally NSSA area
  - Inter-area route summarization and external route summarization
  - OSPF Features

IS-IS Core Knowledge

- IS-IS Principles and Configuration
  - Basic Concepts of IS-IS
  - IS-IS Working Principle
  - Basic IS-IS Configuration

BGP Core Knowledge

- BGP Basics
  - BGP Overview
  - Basic Concepts of BGP

- BGP Path Attributes and RR
- BGP route selection
- BGP EVPN Basics
  - MP-BGP
  - EVPN

Routing and traffic control

- Routing Policy and Routing Control
  - Routing Control Overview

- Route Control Tool
- Route Control Cases

- Traffic Filtering and Forwarding Path Control
  - Policy-based routing
  - MQC
  - Traffic filtering

Switching Core Knowledge

- RSTP Principles and Configuration
- MSTP Principles and Configuration
- Switch stacking and clustering

Multicast Basics

- IP Multicast Basics
  - Basic Concepts of IP Multicast
  - Multicast Data Forwarding Principle

- IGMP Principles and Configuration
  - IGMP Working Principle
  - Introduction to the IGMP Feature

- PIM Principles and Configuration
  - PIM Basics
  - PIM-DM
  - PIM-SM

IPv6 Core Knowledge

- IPv6 Overview
- ICMPv6 and NDP
- IPv6 address configuration

Network Security Basics

- Huawei Firewall Technology
- Network Device Security Features
- VPN Technology Overview
- Basic Concepts and Applications of VRF

Network Reliability

- BFD Principles and Configuration
- VRRP Principles and Configuration

Network Service and Management

- DHCP Principles and Configuration

- Introduction to Network Management Protocols

Large-scale WLAN Architecture

- Overview of Large-Scale WLAN Networking
- VLAN Pool
- DHCP technology
- Roaming technology
- High reliability technology
- Network Admission Control technology

Network Solution

- Campus
- Data Center
- SDN-WAN
- SD-WAN

NOTE

The test content mentioned in this document is only a general test guide for candidates. Other related content that is not mentioned in this document may also appear in the test.

Reference Books

HCIP-Datacom-Core Technology V1.0 training Courses

Recommended Training

HCIP-Datacom-Core Technology V1.0 training