



HCIP-Datcom-Advanced Routing & Switching Technology V1.0 Exam Outline

Huawei HCIP-Datcom-Advanced Routing & Switching Technology V1.0 Certification Exam

Authentication Name	Exam Code	Exam Name	Language	Exam fee	Exam Duration	Passing Score/Total Score
HCIP-Datcom-Advanced Routing & Switching Technology	H12-831	HCIP-Datcom-Advanced Routing & Switching Technology V1.0	CHS/ENU	180 USD	90min	600/1000

Exam Content

The HCIP-Datcom-Advanced Routing & Switching Technology V1.0 exam covers advanced routing and switching knowledge in the data communication field, including advanced IGP features, advanced BGP features, IPv6 routing, advanced Ethernet technologies, MPLS technologies, Network O&M, Network Troubleshooting, and Network Cutover.

Percentage of knowledge points

Key Points	Percentage
Advanced IGP Features	17%
Advanced BGP Features	10%
IPv6 Routing	20%
Advanced Ethernet Technologies	10%
MPLS Technologies	19%
Network O&M	7%
Troubleshooting	10%
Network Cutover	7%

Knowledge Points

Advanced IGP Features



- **Advanced IGP Features**
 - OSPF fast convergence
 - OSPF Route Control
 - Other OSPF Features
 - Advanced IS-IS Features

Advanced BGP Features

- **Advanced BGP Features**
 - BGP route control
 - BGP Features
 - Networking of BGP RRs

IPv6 Routing

- **IPv6 Routing**
 - IPv6 static route
 - OSPFv3 Principles and Configuration
 - IS-IS (IPv6) Principles and Configuration
 - BGP4+ Principles and Configuration

Advanced Ethernet Technologies

- **Advanced Ethernet Technologies**
 - Advanced VLAN Technology
 - Ethernet Security

MPLS Technologies

- **MPLS Principles and Configuration**
 - MPLS Overview
 - MPLS Forwarding
 - Static LSP
- **MPLS LDP Principles and Configuration**
 - Basic Concepts of LDP
 - Working Principle of LDP
 - Basic LDP Configurations
- **MPLS VPN Principles and Configuration**
 - MPLS VPN Overview
 - MPLS VPN route exchange
 - MPLS VPN packet forwarding



- MPLS VPN Configuration and Implementation
- MPLS VPN Deployment and Application
 - Typical Application Scenarios and Deployment of MPLS VPN
 - OSPF VPN expansion

Network O&M

- Network O&M
 - Routine Maintenance
 - Information collection tool

Troubleshooting

- Troubleshooting
 - Structured troubleshooting process
 - Core Ideas and Methods of Network Troubleshooting
 - Troubleshooting Common Network Faults
- Network Cutover
 - Basic Concepts of Cutover
 - Migration Process



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-Advanced Routing & Switching Technology V1.0 training Courses

Recommended Training

HCIP-Datacom-Advanced Routing & Switching Technology V1.0 training