HCIP-Datacom Solution Architect V1.0 Exam Outline

Huawei HCIP-Datacom Solution Architect V1.0 Certification Exam

Certification	Exam Code	Exam Name	Language	Exam Cost	Exam Duration	Pass Score/ Total Score
HCIP-Datacom Solution Architect	H12-822	HCIP-Datacom Solution Architect V1.0	ENU	300USD	90 mins	600/1000

Exam Contents

The HCIP-Datacom Solution Architect V1.0 exam covers the core knowledge and design of solutions in various datacom network scenarios, including routing and switching technologies, WLAN technologies, data center network technologies, transport WAN technologies, network reliability technologies, network traffic optimization technologies, and cyber security technologies.

Key Points Percentage

Key Points	Percentage
1. Enterprise Network Introduction	3%
2. ROuting and Switching Technologies and Applications	22%
3. WLAN Technologies and Applications	10%
4. Data Center Network Technologies and Applications	10%
5. Transport WAN Technologies and Applications	10%
6. Network Reliability and Traffic Optimization Technologies	15%
7. Cyber Security Technologies and Applications	10%
8. Enterprise Network Solution Design	20%

Knowledge Points

1 Enterprise Network Introduction

- Enterprise Network Overview

- Enterprise Network Architecture and Key Technologies
- Huawei Enterprise Network Solutions

2 Routing and Switching Technologies and Applications

2.1 Switching technologies and applications

- Spanning Tree Protocols
- Advanced VLAN Technologies
- Ethernet Switching Security

2.2 Routing technologies and applications

- IPv4 Routing Protocols
- IPv4 Route Control and Traffic Forwarding Control
- IPv6 Routing Protocols

3 WLAN Technologies and Applications

- Introduction to 802.11 Standards
- WLAN Networking Architectures
- WLAN Reliability Technology
- User Access and Authentication
- WLAN Roaming
- WLAN RRM

4 Data Center Network Technologies and Applications

- Network Virtualization Technologies
- Intelligent Lossless Technologies
- Value-added Services of Data Centers
- Multicast Technologies

5 Transport WAN Technologies and Applications

5.1 Transport WAN technologies and applications

- MPLS VPN
- SR-MPLS
- SRv6

5.2 VPN Technologies and Applications

- Overview of VPN Technologies
- Fundamentals and Applications of GRE
- Fundamentals and Applications of IPsec
- Fundamentals and Applications of SSL VPN

6 Network Reliability and Traffic Optimization Technologies

6.1 Network Traffic Optimization Technologies and Applications

- QoS
- Network Slicing

6.2 Network Reliability Technologies and Applications

- Network Status Detection Technologies
- Network Reliability Technologies

7 Cyber Security Technologies and Applications

- NAT Technology
- High Reliability
- Traffic Management
- Virtual System
- Intelligent Uplink Selection
- Load Balancing
- Attack Defense

8 Enterprise Network Solution Design

8.1 Campus Network Design

- Huawei CloudCampus Solution Overview
- Large- and Medium-Sized Virtualized Campus Network Design
- Small- and Medium-Sized Cloud Managed Campus Network Design

8.2 WAN Interconnection Network Design

- Development Trends and Challenges Facing Enterprise WAN Interconnection
- Overview of the Huawei SD-WAN Solution
- Networking Design for the Huawei SD-WAN Solution

- Service Design for the Huawei SD-WAN Solution
- Reliability Design for the Huawei SD-WAN Solution

8.3 WLAN Planning

- WLAN Planning Overview
- WLAN Planning Process
- WLAN Planning Case

8.4 Data Center Network Design

- CloudFabric Solution and DCN Overview
- Network Architecture Design and Data Planning
- Underlay Network Design
- Overlay Network Design
- Multi-PoD and Multi-Site Design
- Network Security Design
- Network Management and O&M Design

8.5 Transport WAN Design

- Current Situation and Challenges of the Enterprise Transport WAN
- Huawei CloudWAN Solution Overview
- Basic Design for the Enterprise Transport WAN
- Tunnel and VPN Design for the Enterprise Transport WAN
- SLA and Reliability Design for the Enterprise Transport WAN
- Optimization and O&M Design for the Enterprise Transport WAN

NOTE

The content mentioned in this document is a general exam guide only. The exam may also contain more specific or related content that is not mentioned above.

Reference

HCIP-Datacom Solution Architect V1.0 Training Material

Recommended Training

HCIP-Datacom Solution Architect V1.0 training