HCIP-Datacom-Campus Network Planning and Deployment V1.5 Exam Outline

Huawei HCIP-Datacom-Campus Network Planning and Deployment Certification Exam

Exam Code	H12-841
Exam Name	HCIP-Datacom-Campus Network Planning and Deployment
Exam language	ENU/CHS
Question Type	Single Answer, Multiple Answer, True-false Question, Fill in the blank answers, Drag and drop item
Exam fees	180USD
Exam Duration	90min
Passing score/Total score	600 / 1000

Exam Content

The HCIP-Datacom-Campus Network Planning and Deployment V1.5 exam covers high-level knowledge of enterprise campus network scenarios in the data communication field, including campus network and common technologies, campus network technology details, Huawei campus network solution overview, campus network planning, design, and deployment, and intelligent campus network O&M.

Knowledge Point Percentage

Key Points	Percentage
Campus Network and Common Technologies	10%
Campus Network Technology Details	40%
Huawei Campus Network Solution Overview	5%
Campus Network Planning, Design, and Deployment	35%
Intelligent Campus Network O&M	10%

Knowledge points

Campus Network and Common Technologies

- Campus Network and Solution Overview
  - Campus Network Concept
  - Different Types of Campus Networks and Main Features
  - Common Campus Networks and Characteristics
  - Logical and Physical Architecture of a Typical Campus Network
  - Development Trends and Challenges of Campus Networks
  - Huawei Campus Network Solution

- Campus Network Architecture and Typical Technology Applications
  - Typical Campus Network Architecture
  - Common Ethernet Switching Technologies
  - Common WLAN Network Architecture
  - Campus Network Reliability Technologies
  - Common Network Services and Management Technologies for Campus Networks
  - Common Network Security Technologies on Campus Networks
  - Common VPN Technologies on Campus Networks

Campus Network Technology Details

- Network Admission Control
  - Basic Concepts of Network Admission Control
  - Common Authentication Technologies, Working Principles, and Application Scenarios
  - Basic User Access Authentication Configuration
  - Function and Principle of Policy Association
- Free Mobility
  - Policy Control Requirements of Large-Scale Campus Networks
  - Differences Between Free Mobility and Traditional Technologies or Solutions
  - Basic Functions and Working Mechanism of Free Mobility
  - Relationship between Free Mobility and Campus Network Admission Authentication
  - Typical Application Solution of Free Mobility
- VXLAN and Campus Network Virtualization
  - New Network Requirements in Data Center Scenarios and How VXLAN Can Meet These Requirements
  - Basic Concepts of VXLAN
  - Basic Principles of VXLAN
  - VXLAN Application in Campus Network Virtualization
  - Application of BGP EVPN in Campus Virtualization Scenarios and Cooperation with VXLAN
- Campus Multi-branch Interconnection Technology
  - Enterprise WAN Development Trend
  - Common Campus Network Interconnection Solutions
  - Basic Concepts, Application Scenarios, and Working Principles of IPsec VPN
  - Basic Concepts of SD-WAN
  - Technical Architecture of Huawei SD-WAN Solution
  - SD-WAN Interconnection Solution Implementation

Huawei Campus Network Solution Overview

- Huawei CloudCampus Solution
  - CloudCampus Solution Architecture, Key Components, and Functions
  - Ultimate Experience
  - Simplified network
  - Simplified branch
  - Simplified O&M

Campus Network Planning, Design, and Deployment

- VXLAN-based Virtualized Campus Network Design Guide
  - Requirements and Challenges for Large- and Medium-sized Campus Networks
  - Network Layers and Architecture of the CloudCampus Large- and Medium-Sized Campus Network
  - Concepts and Relationships of Underlay, Fabric, and Overlay on Campus Networks
  - Underlay Network Design for VXLAN-based Virtual Campus Networks
  - Fabric and Overlay Network Design for VXLAN-based Virtual Campus Networks
  - WLAN Service Design, Authentication Design, and O&M Management Design
- VXLAN-based Virtualized Campus Network Deployment Guide
  - Deployment Process of the VXLAN-based Virtual Campus Network Using iMaster NCE-Campus
  - Deploying a Typical VXLAN-based Virtual Campus Network
  - Configuring iMaster NCE-Campus to Manage and Maintain the VXLAN Virtual Campus Network
- Small- and Medium-Sized Campus Network Design Guide
  - Service Requirements, Development Trends, and Challenges of Small- and Medium-sized Campus Networks
  - Huawei CloudCampus Solution Architecture for Small- and Medium-Sized Campus Networks
  - Typical Small- and Medium-Sized Campus Network Solution
- Small- and Medium-Sized Campus Network Deployment Guide
  - AR Routers PnP through Command Lines
  - Configure AR Routers Using iMaster NCE-Campus
  - Configure Wireless Services on iMaster NCE-Campus

Intelligent Campus Network O&M

- iMaster NCE-Campus O&M
  - iMaster NCE-Campus O&M Overview

  - System-level O&M
  - MSP-level O&M
  - Tenant-level O&M
  - Management plane O&M
- CampusInsight Intelligent O&M
  - CampusInsight Overview
  - Basic Function
  - Network Analysis
  - Application Analysis
  - Client Analysis
  - Calibration
  - System Management

NOTE

The test content mentioned in this document provides a general test guide for candidates. Other content not mentioned in this document may also be used in the test.

Reference

Huawei Certified HCIP-Datacom-Campus Network Planning and Deployment V1.5 Course

Recommended Training

Huawei Certified HCIP-Datacom-Campus Network Planning and Deployment V1.5 Training