

COURSE OUTLINE

HCIP-Datacom-Campus Network Planning and Deployment

Duration: 5 Days

Prerequisites:

Suggest to acquire HCIP-Datacom-Core Technology abilities.

Course Objectives:

Passing the HCIP-Datacom-Campus Network Planning and Deployment certification will indicate that you: 1) understand and master traditional campus network technologies, Huawei CloudCampus solution, network admission control, free mobility, VXLAN, BGP EVPN, campus network virtualization, and Campus WLAN planning and design and CampusInsight intelligent O&M. 2) are qualified for the positions of enterprise campus network scenarios (account manager, project manager, pre-sales engineer, post-sales engineer, and O&M engineer) and be able to use Huawei datacom devices to independently plan, design, deploy, and maintain enterprise campus networks.

Intended Audience:

- Those who wants to be datacom campus network senior engineer
- Those who wants to achieve HCIP-Datacom-Campus Network Planning and Deployment certification.

Course Outlines:

1. HUAWEI CAMPUS NETWORK SOLUTION OVERVIEW

- HUAWEI CLOUDCAMPUS SOLUTION
 - CloudCampus Solution Architecture, Key Components, and Functions
 - Ultra-Broadband and Simplified Network Defined by the CloudCampus Solution
 - VXLAN-based Virtual Campus and Application Scenarios
 - Common Campus Network Admission Authentication Solutions
 - CloudCampus Intelligent Policy and Intelligent O&M Implementation

2. CAMPUS NETWORK DESIGN AND DEPLOYMENT

- LARGE- AND MEDIUM-SIZED VXLAN VIRTUAL 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 DHCP
 - AR Routers PnP through Command Lines
 - Configure AR Routers Using iMaster NCE-Campus
 - Configure Wireless Services on iMaster NCE-Campus

- CAMPUS WIRELESS NETWORK PLANNING AND DESIGN
 - WLAN Network Planning and Delivery Process
 - WLAN Requirement Collection and Site Survey
 - Signal Coverage Analysis, Service Analysis, Capacity Design, and AP Selection
 - Wireless Channel Planning, AP Deployment Design, Power Supply and Cable Installation Design
 - WLAN Acceptance

3. CAMPUS NETWORK AND COMMON TECHNOLOGIES

- CAMPUS NETWORK AND SOLUTION OVERVIEW
 - Campus Network Concept
 - Different Types of Campus Networks and their Main Features
 - Common Campus Networks and their 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

4. 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

5. INTELLIGENT CAMPUS NETWORK O&M

- CAMPUSINSIGHT INTELLIGENT O&M
 - Pain Points and Requirements of Intelligent Campus Network O&M
 - Application Scenarios and Deployment Modes of CampusInsight
 - Typical CampusInsight Network Scenarios
 - Logical Architecture and External Interfaces of CampusInsight
 - Main Functions and Features of CampusInsight
 - Technical Principles and Applications of CampusInsight
 - Main Operations of CampusInsight

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