

HW-HCSEPCNP



HUAWEI CERTIFIED SPECIALIST EXPERT (HCSE)-Presales – Campus Network Planning and Design

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
5 Days	Pre-sales	Datacom	ILT/VILT	Huawei Voucher

INTRODUCTION

HCSE-Presales-Campus Network Planning and Design is a Huawei certification designed for pre-sales engineers and professionals in the networking field. Its purpose is to help these engineers gain a deeper understanding of Huawei Campus Network solutions, including office networks, multi-branch WANs, and industrial scenarios, thereby enhancing their ability to design solutions, communicate with customers, and deliver effective network projects

AUDIENCE PROFILE

- Personnel who want to become Campus Network pre-sales engineers
- Personnel who want to obtain HCSE-Presales-Campus Network Planning and Design certification
- Personnel who want to sell Huawei Campus Network products, and can satisfy customer's requirements

PREREQUISITES

- None

COURSE OBJECTIVES

After completing this course, delegates will be able to:

- Export information, knowledge and related technologies for Huawei Campus Network
- Building a campus network solution, independently operate projects, communicate with customers about solution technologies, identify customer pain points, and demonstrate the solution

COURSE CONTENT

Module 1: Technical Fundamentals and Applications of WLAN

- Key WLAN Technologies
- WLAN Networking Design
- Typical WLAN Networking
- WLAN Application Scenarios

Module 2: Technical Fundamentals and Applications of Office Campus Networks

- Terminal Access Technologies
- Network Access Control (NAC)
- Access Authentication
- Terminal Identification
- Free Mobility
- Egress Network Technologies
- Network Virtualization Technologies
- Experience Assurance Technologies
- IPv6 Technologies

Module 3: Technical Fundamentals and Applications of Multi-Branch WAN Interconnection

- GRE
- IPsec
- MPLS VPN
- BGP EVPN

Module 4: Key Technical Principles and Applications in Industrial Scenarios

- High-Quality 10 Gbps Industrial Campus Network: Solution Overview
- High-Quality 10 Gbps Industrial Campus Network: Key Technologies
- High-Quality 10 Gbps Industrial Campus Network: Typical Networking

Module 5: Key Technologies for Campus Network Management and O&M

- Technical Principles and Application of SNMP
- Technical Principles and Application of NETCONF and YANG
- Technical Principles and Application of Telemetry

- Technical Principles and Application of sFlow and NetStream
- Technical Principles and Application of iPCA
- Application of the Northbound Technologies of the SDN controller

Module 6: Huawei Campus SD-WAN Products and Solutions

- Development Trends and Challenges of WAN Interconnection
- Overview of Huawei SD-WAN Solution
- Introduction to Huawei NetEngine AR Products

Module 7: Huawei iMaster NCE-Campus--Campus Network Management System

- Digital Transformation Trends and Challenges
- iMaster NCE-Campus Overview
- Automatic Network Planning

- Automatic Network Construction
- Automatic Network O&M
- Diverse Deployment Modes

Module 8: Huawei Xinghe Intelligent Cloud Managed Campus Network Design Guide for Small and Midsize Enterprises

- Xinghe Intelligent Cloud Managed Campus Solution Overview
- Requirement Survey and Analysis
- Network Architecture Design
- Simplified Deployment Design
- IP Service Design
- Wireless Network Design
- Access Control Design
- Network Security Design
- Experience Assurance Design
- O&M Management Design
- VAS Design

Module 9: Huawei Xinghe Intelligent Large- and Medium-Sized Campus Network Design Guide (VLAN Networking)

- Network Architecture Design
- Wired Network Service Design
- Wireless Network Service Design
- Terminal Access Control and Free Mobility Design
- Network Security Service Design
- Ultimate Service Experience Design
- Intelligent O&M Management Design
- Multi-Campus Network Interconnection Solution Design

Module 10: Huawei Xinghe Intelligent Campus Solution for Large- and Medium-Sized Networks (Virtualization Scenario) Design Guide

- ManageOne Positioning
- Huawei Xinghe Intelligent Campus Solution (VXLAN Scenarios)
- Fabric Architecture Design
- Fabric Underlay & Overlay Network Service Design

- Fabric Wireless Network Design
- Terminal Access Control and Free Mobility Design
- Network Security Service Design
- Ultimate Service Experience Design
- Intelligent O&M Design
- Multi-Fabric Campus Network Interconnection Solution Design

Module 11: Huawei Xinghe Intelligent Campus Network Multi-Branch WAN Interconnection Solution Design Guide

- Development Trends and Challenges Facing Enterprise WAN Interconnection
- Overview of Huawei's SD-WAN Solution
- Networking Design for Huawei's SD-WAN Solution
- Service Design for Huawei's SD-WAN Solution
- Reliability and Security Design for Huawei's SD-WAN Solution

ASSOCIATED CERTIFICATIONS & EXAM

This course will prepare delegates to take the HCSE-Presales-Campus Network Planning and Design certification exam #H19-404, which will validate proficiency in Huawei Campus Network solutions, network design principles, and pre-sales project implementation.