

## HW-HCSEPSDATC

# HUAWEI CERTIFIED SPECIALIST EXPERT (HCSE)-Presales-Datacom v1.0



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

## INTRODUCTION

HCSE-Presales-Datacom is a Huawei certification designed for pre-sales engineers and related professionals in the IT field. It provides foundational knowledge of Huawei Enterprise Datacom solutions, including campus networks, data center networks, WAN, and network security. The certification focuses on solution design, architecture, and technical demonstrations using Huawei Xinghe AI networking technologies.

## AUDIENCE PROFILE

Pre-sales engineers who need to master Huawei enterprise datacom technical knowledge and capabilities, want to learn about Huawei's enterprise datacom campus solution, design, and demonstration including small- and medium-sized enterprise cloud-managed campus networks, large- and medium-sized campus networks, and multi-branch WAN networks. Data Center Network solution and design and demonstration, WAN solution and design and demonstration, and Secure network solution and design and demonstration

## PREREQUISITES

- None

## COURSE OBJECTIVES

After completing this course, delegates will be able to:

- Have general knowledge of Huawei Xinghe AI Data Center Network solution, solution design, and demonstration
- Have general knowledge of Huawei Xinghe AI WAN solution, solution design and demonstration
- Have general knowledge of Huawei Xinghe AI network security solution, solution design, and demonstration
- Have general knowledge of Huawei Xinghe AI Campus Network solution, solution design, and demonstration

## COURSE CONTENT

### Module 1: Huawei Xinghe AI Campus Network Solution

- Xinghe Intelligent Campus Solution
- Xinghe Intelligent Campus Solution — SD-WAN Solution
- iMaster NCE-Campus: Campus Network Management System
- iMaster NCE-CampusInsight: Campus Network Analyzer

### Module 2: Huawei Xinghe AI 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 3: Huawei Xinghe AI Campus Solution Design Guide for Large- and Medium-Sized Networks (Virtualization Scenario)

- 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 4: Huawei Xinghe AI Campus Network Design Guide for Multi-Branch WAN Interconnection Solution

- 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

**Module 5: Huawei Xinghe AI Data Center Network Solution**

- DCN Development Trends and Challenges
- Huawei Xinghe Intelligent Ultra-Resilient DCN Solution (General-Purpose Computing)
- Huawei Xinghe Intelligent Ultra-Efficient DCN Solution (Intelligent Computing)

**Module 6: Huawei Xinghe AI Data Center Network Planning and Design Guide**

- Overview of Xinghe AI data center network Solution and Data Center Network
- 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
- IPv6 Network Design

**Module 7: Huawei Xinghe AI WAN Solution**

- Introduction to Huawei Xinghe AI WAN Solution
- Introduction to Huawei Xinghe AI WAN Solution Industry Application Solution
- Key Capabilities of Huawei Xinghe AI WAN Solution Network Cloud Engine NCE (IP Domain)

**Module 8: Huawei Xinghe AI WAN Design Guide**

- Background
- Network Design (Address, IGP, BGP, and Tunnel Design)
- Service Design (Control and Forwarding Plane Design)
- Reliability Design
- Clock Design
- Management and O&M Design
- Design for Evolution from Traditional Networks to SRv6 Networks

**Module 9: Huawei Xinghe AI Network Security Solution**

- Zero Trust Security Solution Architecture and Design Guide
- Architecture of Trusted Access Solution for IoT Terminals
- Architecture of Ransomware Protection Solution

**Module 10: Huawei Xinghe AI Network Security Service Solution**

- Status Quo, Trends, and Challenges of Cybersecurity
- Architecture and Services of Huawei Qiankun Security Service

**Module 11: Huawei Xinghe AI Network Security HiSec SASE Solution**

- SASE: Solution and Application Scenarios
- SASE: Technical Principles and Applications

## ASSOCIATED CERTIFICATIONS & EXAM

This course will prepare delegates to take the HCSE-Presales Datacom certification exam #H25-531, validating skills in Huawei enterprise datacom solutions, network design, and technical demonstrations.