

HCNP (Huawei Certified Network Professional)

*Barcelona (Spain)*

*23 December 2024 - 3 January 2025*

UK Training

**PARTNER**



# HCNP (Huawei Certified Network Professional)

Code: IT28 From: 23 December 2024 - 3 January 2025 City: Barcelona (Spain) Fees: 8600 Pound

## Introduction

In the rapidly evolving field of networking technology, professionals need advanced skills and in-depth knowledge to design, implement, and manage complex networks effectively. The Huawei Certified Network Professional HCNP certification offers participants the expertise needed to navigate modern networking challenges and make the most of Huawei network solutions to enhance performance, security, and reliability. This advanced HCNP course is designed to provide participants with comprehensive insights, practical skills, and hands-on experience to excel in network engineering and administration, preparing them for a successful career as certified network engineers and certified network analysts.

## Course Objectives

- Equip participants with a thorough understanding of Huawei networking technologies, products, and solutions, including routers, switches, and network security devices.
- Provide practical insights into network design principles, architectures, and protocols to enable participants to plan and implement scalable, resilient networks.
- Develop proficiency in configuring and troubleshooting Huawei network devices, protocols, and services to optimize network performance and reliability.
- Explore advanced network security topics, including threat detection, prevention, and mitigation strategies to safeguard network infrastructure and data.
- Foster expertise in emerging technologies, such as cloud computing, software-defined networking SDN, and network virtualization, to meet evolving network demands.
- Enhance participants' skills in analyzing network performance metrics, identifying bottlenecks, and implementing optimization strategies for efficient resource utilization.
- Provide hands-on experience with Huawei network simulation tools and real-world scenarios to reinforce theoretical knowledge and practical skills.
- Prepare participants for the HCNP certification exam with a comprehensive review of exam topics, practice tests, and effective exam strategies.

## Course Outlines

### Day 1: Introduction to Huawei Networking Technologies

- Overview of Huawei networking products and Huawei suite solutions.
- Fundamentals of routing and switching technologies.
- Introduction to Huawei certification paths and HCNP exam requirements.

### Day 2: Network Design Principles and Architectures

- Key design considerations for building scalable, resilient networks.



- Campus and data center network architectures.
- Introduction to network virtualization and software-defined networking SDN.

### Day 3: Huawei Routing Technologies

- Configuration and management of Huawei routers.
- Routing protocols: OSPF, BGP, and MPLS.
- Advanced routing techniques and optimization strategies.

### Day 4: Huawei Switching Technologies

- Configuration and management of Huawei switches.
- Understanding VLANs, trunking, and spanning tree protocol STP.
- High availability and redundancy features for network reliability.

### Day 5: Network Security Fundamentals

- Threat landscape and common network security threats.
- Introduction to Huawei firewall and intrusion prevention systems IPS.
- Security best practices for protecting network infrastructure.

### Day 6: Advanced Network Security

- Advanced threat detection and mitigation techniques.
- Secure access control and authentication mechanisms.
- Encryption and VPN technologies for enhanced network security.

### Day 7: Network Performance Optimization

- Tools and techniques for network performance monitoring and analysis.
- Quality of Service QoS mechanisms for effective traffic management.
- Optimization strategies to improve network efficiency.

### Day 8: Cloud Computing and Virtualization

- Overview of cloud computing concepts and Huawei cloud solutions.
- Network virtualization technologies like VXLAN and NFV.
- Integrating cloud services within Huawei networks.

### Day 9: Hands-on Lab Exercises and Case Studies

- Practical configuration and troubleshooting exercises using Huawei network simulation tools.
- Real-world case studies and scenarios to apply learned skills effectively.

### Day 10: Exam Preparation and Practice Tests

- Review of essential concepts and HCNP exam topics.
- Practice tests and mock exams to assess HCNP certification readiness.
- Exam-taking strategies to boost success on the certification exam.



## Conclusion

By completing this advanced HCNP certification course, participants will gain in-depth knowledge of Huawei technologies, expertise in network design and management, and mastery in configuring Huawei networking devices for high-performance and secure networks. This course not only prepares participants to earn the prestigious Huawei Certified Network Professional HCNP certification but also provides valuable practical skills for a career as a network certified professional, ready to address and solve modern networking challenges effectively.



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