



Huawei Networking Technologies and Devices (HCIA-HNTD)

- **Formato do curso:** Presencial
- **Localidade:** Porto
- **Data:** 16 Set. 2019 a 11 Out. 2019
- **Preço:** 1250€
- **Horário:** Pós-laboral - das 18h30 às 22h00
- **Duração:** 70 horas

With HCIA certification, you demonstrate a basic understanding of small and medium-sized networks, including general network technologies, and the ability to assist the design of small and medium-sized networks, and implement the designs using Huawei routing and switching devices.

Destinatários

- Those who wish to become a Huawei Certified ICT Associate.
- For those who possess basic IT skills, but lack knowledge of IP networks.

Pré-requisitos

- A working knowledge of IT technologies.

Objectivos

On completion of this program, the participants will be able to:

- Navigate and manage Huawei products through the virtual routing platform (VRP).
- Build efficient data switching environments through the management of switching products and manipulation of related (STP/RSTP) link layer protocols.
- Explain the principles of routing and configure (RIP/OSPF) routing protocols for implementation and support of effective enterprise network routing solutions.
- Establish solutions for enterprise network administration and management through application layer services including DHCP, FTP and Telnet.
- Establish a fundamental network capable of supporting basic communications.
- Enhance link layer performance through implementation of features and services including link aggregation, VLAN technologies and GVRP.
- Manage and support Wide Area Network communications over serial links for a range of technologies

including HDLC, PPP, PPPoE and Frame Relay.

- Apply Network Address Translation (NAT) solutions for private networks.
 - Provide effective IP security solutions using various security architectures including Access Control Lists (ACL), AAA, and IPSec with GRE support solutions.
 - Describe solutions for unified enterprise network management, including SNMP and Huawei eSight NMS technology solutions.
 - Establish truly business capable enterprise networks for real-world industries.
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Building Basic IP Networks

- Enterprise Network Constructs
- Ethernet Framing
- IP Addressing
- Internet Control Message Protocol
- Address Resolution Protocol
- Transport Layer Protocols
- Data Forwarding Scenario

Huawei Device Navigation and Configuration

- Expanding the Huawei Enterprise Network
- Navigating the CLI
- File System Navigation and Management
- VRP Operating System Image Management

Supporting and Maintaining Enterprise Local Area Networks

- Establishing a Single Switched Network
- Spanning Tree Protocol
- Rapid Spanning Tree Protocol

Establishing Internetwork Communication

- Segmenting the IP Network
- IP Static Routes
- Distance Vector Routing with RIP
- Link State Routing with OSPF

Implementing Network Application Services

- DHCP Protocol Principles
- FTP Protocol Principles
- Telnet Protocol Principles

Local Enterprise Network Features and Services

- Link Aggregation
- VLAN Principles
- GARP & GVRP
- Wireless LAN Overview

Connecting Beyond the Enterprise Network

- Bridging Enterprise Networks with Serial WAN Technology
- Frame Relay Principles
- Establishing DSL Networks with PPPoE
- Network Address Translation
- Establishing Enterprise Radio Access Network Solutions

Securing the Enterprise Network

- Access Control Lists
- AAA
- Securing Data with IPSec VPN
- Generic Route Encapsulation

Enterprise Network Management Solutions

- Simple Network Management Protocol
- eSight Network Management Solutions

Supporting IPv6 Networks

- Introducing IPv6 Networks
- IPv6 Routing Technologies
- IPv6 Application Services – DHCPv6