

# Huawei Networking Technologies and Devices (HCIA-HNTD)

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Data:** 09 Dez. 2019 a 06 Jan. 2020
- **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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## Programa

### **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