



Enterprise Computing Solutions - Education Services

## OFERTA FORMATIVA

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### Detalles de contacto

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# HUAWEI HCIA - Routing & Switching (Fast-Track)

<b>CÓDIGO:</b>	<b>DURACIÓN:</b>	<b>Precio:</b>
HUA_HCIA-HNTD	40 Hours (5 días)	A consultar

## Description

Training and certificating engineers with small and medium-sized enterprise network deployment and O&M capabilities

## Objetivos

After the class, you will be able to:

- Explain the intricacies of data transmission over IP networks, for competency in supporting, maintaining and troubleshooting IP networks
- Perform IP address planning for establishing well designed networks
- 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

## Requisitos Previos

- Basic computer knowledge
- TCP/IP Knowledge
- Network Basics knoweldge

## Programa

1. Basic Knowledge of TCP/IP  
Introduction to this chapter
  - 1.1 Introduction to Transmission Media
  - 1.2 Ethernet framing
  - 1.3 IP addressing
  - 1.4 ICMP protocol
  - 1.5 ARP protocol
  - 1.6 Transport layer protocol
  - 1.7 Data forwarding Scenario
2. Introduction to the VRP  
Introduction to this chapter
  - 2.1 VRP Foundation
  - 2.2 Navigating the CLI
  - 2.3 File System Navigation and Management
  - 2.4 VRP Operating system Image management
3. Introduction to the Ethernet Switching  
Introduction to this chapter
  - 3.1 Establishing a Single Switched Network
  - 3.2 Spanning Tree Protocol
  - 3.3 Rapid Spanning Tree Protocol
4. Introduction to the IP Unicast Routing  
Introduction to this chapter
  - 4.1 Basic Knowledge of IP Routing
  - 4.2 IP Static Route
  - 4.3 Link State Routing with OSPF
5. Introduction to the basic IP Service  
Introduction to this chapter
  - 5.1 DHCP Protocol Principles
  - 5.2 FTP Protocol Principles
  - 5.3 Telnet Protocol Principles
6. Advanced switching technologies  
Introduction to this chapter
  - 6.1 Link aggregation
  - 6.2 VLAN Principle
  - 6.3 VLAN Routing
7. Introduction to WAN  
Introduction to this chapter
  - 7.1 Principle and Configuration of HDLC and PPP
  - 7.2 Principle and Configuration of PPPoE
8. Introduction to Access Control  
Introduction to this chapter
  - 8.1 Network address translation
  - 8.2 Access control list
  - 8.3 AAA
  - 8.4 Securing Data with IPsec VPN
  - 8.5 Generic Routing Encapsulation
9. Introduction to Network Management  
Introduction to this chapter
  - 9.1 Simple Network Management Protocol
10. Introducing IPv6 Networks  
Introduction to this chapter
  - 10.1 Introducing IPv6 Networks
  - 10.2 IPv6 Routing Technologies
  - 10.3 IPv6 Application Service - DHCPv6
11. Basic knowledge of MPLS and SR  
Introduction to this chapter
  - 11.1 MPLS basic principle
  - 11.2 Segment Routing basic principle

## **Examen y certificación**

## **Target Trainees**

Students who want to take the HCIA-HNTD exam

## **Fechas Programadas**

A petición. Gracias por contactarnos.

## **Información Adicional**

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.