

## HCIA Routing & Switching Fast Track

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Data:** 16 Mai. 2022 a 20 Mai. 2022
- **Preço:** 2000€
- **Horário:** Laboral - das 9h00 às 17h00
- **Duração:** 35 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.

This 5 day HCIA Routing & Switching fast track course prepares you for the H12-211 exam.

### Online Course

[Enroll to access this online \(MOOC\) HCIA Routing & Switching course](#) that will help you prepare for the big training day. Make sure you take the time to work through as much of the content as possible to ensure a better instructor-led experience.

## Destinatários

This course is aimed at technicians who must take the HCIA certification exam, having already acquired knowledge equivalent to that provided by a similar certification with other vendors

## Pré-requisitos

Equivalent certification from another vendor, like Cisco Certified Network Associate

## Objectivos

- Configure link aggregation, VLAN to enhance the performance of Layer two networks
- Configure HDLC, PPP, PPPoE to implement WAN interconnection
- Performing NAT Configuration
- Configure ACL, AAA, and IPSec/GRE to provide security solutions for IP networks

- Configure SNMP to manage networks in a unified manner
  - Know about principle of MPLS and Segment Routing
  - Describe the basic principles of data communication and be competent for basic O&M of IP networks
  - Plan and design IP addresses
  - Performing Basic VRP Operations
  - Describe the functions and working principles of the switching equipment
  - Set up an efficient switching network by configuring switching devices and running the STP/RSTP protocol
  - Describe the basic principles of routing and routing protocols. Configure OSPF to build an efficient routing network
  - Configure common services on enterprise networks, such as DHCP, FTP, and Telnet, so that engineer can efficiently use and manage the network
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## Programa

### **HCIA Routing&Switching Entry**

- Establishing a Single Switched Network
- FTP Protocol Principles
- Rapid Spanning Tree Protocol
- RIP Static Route
- Basic Knowledge of TCP/IP
  - Introduction to Transmission Media
  - Ethernet framing
  - IP addressing
  - ICMP protocol
  - ARP protocol
  - Transport layer protocol
  - Data forwarding Scenario
- Basic Knowledge of IP Routing
- DHCP Protocol Principles
- Link State Routing with OSPF
- Introduction to the VRP
  - VRP Foundation
  - Navigating the CLI
  - File System Navigation and Management
  - VRP Operating system Image management
- Spanning Tree Protocol
- Telnet Protocol Principles

### **HCIA Routing&Switching Intermediate**

- Advanced switching technologies
  - Link aggregation
  - VLAN Principle

- VLAN Routing
- Ipv6 Application Service - DHCPv6
- Segment Routing basic principle
- IPv6 Routing Technologies
- Introducing IPv6 Networks
- Principles and Configuration of PPPoE
- MPLS basic principle
- Introduction to Network Management
  - Simple Network Management Protocol
- Introduction to Access Control
  - Network address translation
  - Access control list
  - AAA
  - Securing Data with IPsec VPN
  - Generic Routing Encapsulation
- Principles and Configuration of HDLC and PPP