Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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HCIP-Routing & Switching (Fast-Track)

CODE:	LENGTH:	PRICE:
HUA_HCNP-RS-FT	40 Hours (5 days)	Request Price

Description

The "HCIP Routing & Switching Fast Track" course allows those who already have a knowledge of Routing & Switching equivalent to that provided by the courses listed in the prerequisites, to follow a shorter course than the full course (HCIP-IERS + HCIP-IENP + HCIP-IEEP) to prepare for the HCIP-R&S (Composite Certification Training) exam.

Objectives

Ethernet Technology (hands-on)
• Ethernet evolution process, port auto-negotiation technology, port trunking, port mirroring, working principles of a Layer 2 switch, and working principles of a Layer 3 switch
VLAN (hands-on)
• 802.1Q encapsulation and implementation of VLAN in Huawei products
• Inter-VLAN routing, Super VLAN, MUX VLAN, ARP proxy, and VLAN mapping
• GVRP principles, configuration, and implementation
• QinQ principles, configuration, and implementation
STP/RSTP/MSTP (hands-on)
• STP principles and configuration
• RSTP principles and configuration
• MSTP principles and configuration
Network Access Technology
• 802.1X access authentication techniques and principles
• DHCP principles and extended switch feature, DHCP snooping
MPLS VPN (hands-on)
• MPLS principles and implementation: MPLS frame format and encapsulation, MPLS data forwarding process, LDP neighbor discovery and session establishment, LDP label management, and MPLS loop avoidance
• Basic principles and implementation of MPLS VPN: single-domain MPLS VPN principles; implementation and application of OSPF in MPLS VPN
• MPLS VPN fault diagnosis: troubleshooting roadmap and debugging methods of control plane faults; troubleshooting roadmap and debugging methods of data plane faults
Huawei Ethernet Switches (hands-on)
• Hardware structure and working principles of Huawei switches
VRP software features of Huawei switches
IP Basics (hands-on)
• IPv4 address planning: classless IP address planning and Classless Inter-Domain Routing (CIDR)
OSPF Routing Protocols (hands-on)
• Basic principles of link state routing protocols
• OSPF principles, configuration, and implementation: neighbor and adjacency, protocol packet and LSA, database synchronization, intra-area route calculation, inter-area
• route calculation, and external route calculation
• Principles and configuration of OSPF special areas: stub area, totally stub area, and not-so-stubby area (NSSA)
• Basic methods of OSPF fault diagnosis
BGP Routing Protocols (hands-on)
• BGP principles: AS, BGP neighbor, route distribution methods, and route advertisement rules
• BGP path selection
• BGP route aggregation
• BGP routing policy: common attributes and routing policies of BGP
• Basic principles and configuration of BGP route reflection and AS confederations for BGP
• BGP multi-homing
• BGP fault diagnosis methods
Routing and Routing Control (hands-on)
• Route filtering by using filtering tools such as ACL, route policy, IP-prefix, and AS-Path

• Mutual route import between IP routing protocols and advertisement of default routes
• Policy-based route
Multicast Protocols (hands-on)
• Basic principles and configuration of IGMPv1/v2/v3 and IGMP snooping
• Basic principles and configuration of PIM-DM and PIM-SM
NE Routers (hands-on)
• Hardware structure and working principles of NE routers
• VRP software features of NE routers
Network Security (hands-on)
• Basic concept of network security and basic functions and principles of firewall
• Firewall NAT technology and anti-attack techniques
• Dual-node cluster hot backup technique of firewall
• Knowledge and networking application of Eudemon firewalls of Huawei
High Availability ,HA (hands-on)
• Bidirectional Forwarding Detection (BFD) principles
• Basic principles of VRRP,IP Reroute,FRR
• Principles and networking applications of NSF and GR
QoS (hands-on)
• IP QoS model and differentiated services (DiffServ) model
• Basic principles of classification and marking, traffic policing and shaping, congestion management, congestion avoidance, and link efficiency mechanisms
Class-based QoS principles

Audience

Those who hope to become a network professional
Those who hope to obtain HCIP-Routing&Switching certificate
Those who have obtained the same level technical certificate in the industry, and hope to obtain Huawei certificate

Prerequisites

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

Programme

Session Dates

Su richiesta. Contattaci al n.ro +39 0471 099134 oppure via mail a training.ecs.it@arrow.com

Informazioni aggiuntive

Questa formazione è disponibile anche come formazione in loco. Per favore, contattaci per saperne di più.