H3C Certified Network Engineer for Routing & Switching Plus

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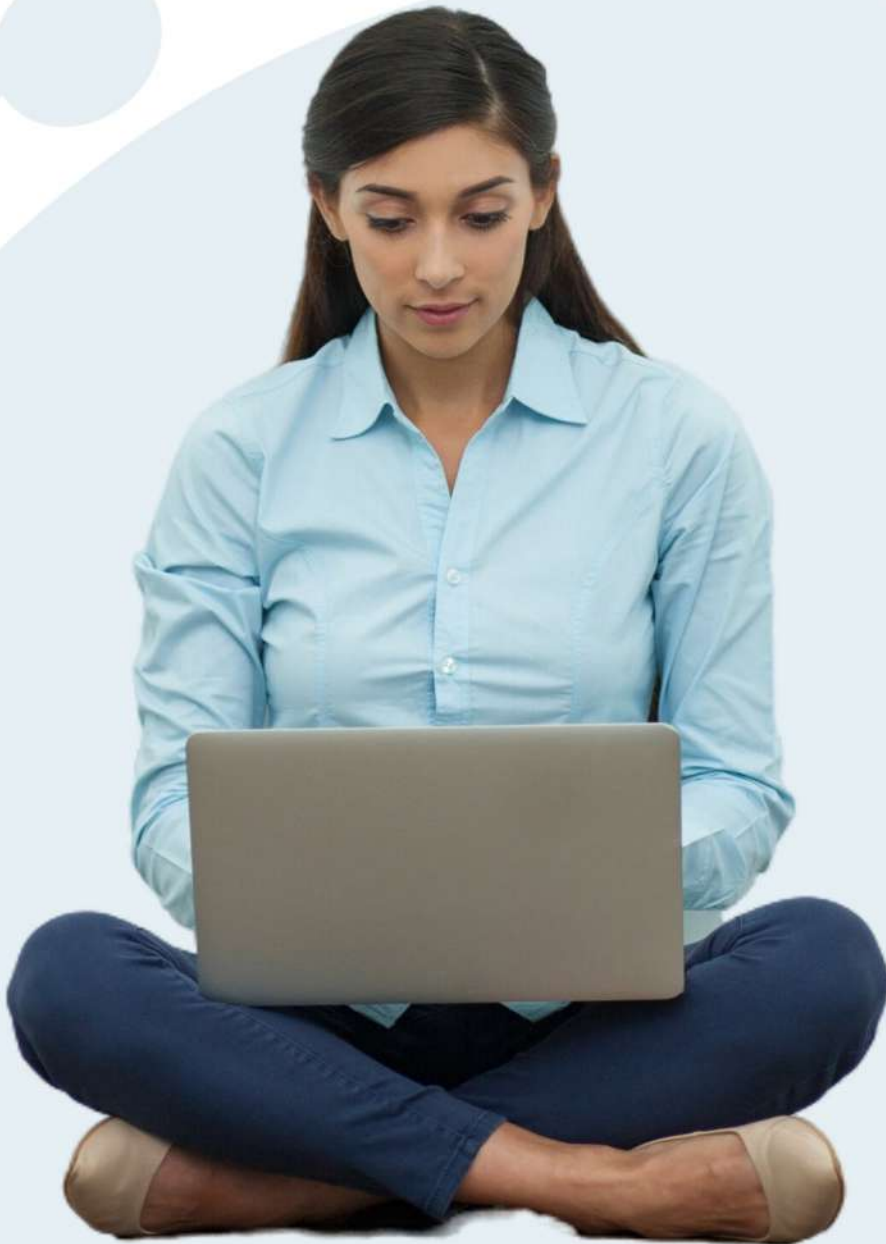
Online Course

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Course Modules

1. Computer Network Fundamentals

- Basic concepts of computer networks
- TCP/IP stack and OSI model
- Basic principles of LANs and WANs
- Basic principles of IP, TCP, and UDP

2. H3C Network Devices

- H3C routers, switches, and operating systems
- Basic operations on the CLI
- Document management of network equipment
- ping and tracert commands
- System debugging

3. LAN Switching

- Shared & switched Ethernet, & learning, forwarding, & filtrg logic
- VLAN, 802.1Q label, and trunk link
- Basic principles, functions, features, & configs of STP/RSTP/MSTP
- Functions, features, & configs of port security & link aggregation
- Concepts of WLAN and WLAN network devices, & WLAN

4. Advanced TCP/IP

- IP subnetting, VLSM, and CIDR
- Fnctns & systm components of DNS, domain name structure, etc.,
- Functions, features, and working principles of FTP/TFTP
- Functions, features, and system components of DHCP
- Clssfctns of IPv6, IPv6 Neighbor Discovery Protocol, IPv6 adrs etc

5. IP Routing

- Principles of IP routing
- Direct route and static route
- Overview of routing protocols and related concepts and terms
- Features, basic working principles, and basic configs of OSPF

6. Configuring a Secure Branch Netwok

- Packet filtering by ACL
- Principles, functions, types, and basic configurations of NAT

7. WAN Access and Interconnection

- Basic principles of WANs
- Basic principles, functions, features, and configurations of PPP
- Basic principles, functions, features, and configurations of PPPoE
- Basic principles, functions and features of segment routing

8. The Evolution of Network Technologies

- Classifications of vrtualiztn, principles & implementation methods
- Background of SDN networks, SDN ntwrk architecture and value.
- Bg & related cncpts of NFV, NFV standards organizations, etc

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For contact:+91 8680961847
+91 9600579474