

CCNP:

Cisco Certified Network Professional (CCNP) is an intermediate-level certification within the Cisco certified professional program. CCNP mainly aimed toward full-time network or system administrators, or those that work with local and/or wide-area network (LAN/WAN) infrastructure.

Cisco Certified Network Professional (CCNP) certification program addresses the necessity for designing, implementing and operating Wireless networks and mobility infrastructures of Cisco. The Cisco CCNP course provides a theoretical hands-on learning experience covering advanced routing, switching, and troubleshooting skills.

Cisco Certified Network Professional program train candidates to plan, implement, verify and troubleshoot Local Area Networks (LAN) and Wide Area Network (WAN) at the enterprise level.

Networking Fundamentals:

- IP Addressing
- Cisco Device Basics
- Switching Technologies & VLAN
- IP Routing & Managing Cisco Internetwork
- IPV6
- Redundant first Hop Routers
- Access Lists
- WAN Protocols

Course Content:

Route:

Enhanced Interior Gateway Routing Protocols – EIGRP:

- Establishing Neighbours
- Topology Table
- IP Routing Table
- Optimizing EIGRP Convergence
- Route Filtering
- Route Summarization
- Authentication

Open Shortest Path First – OSPF:

- Planning
- Verification
- Configuration
- Neighbours
- Adjacencies Formation (on LAN & WAN)

- Link State Advt – LSAs
- Link State Database
- Route Filtering & Summarization
- Areas & Special Areas
- Authentication
- Virtual Links

Path Control:

- Redistribution into EIGRP
- Redistribution into OSPF
- Redistribution with Distribute Lists
- Redistribution with Distribute Lists
- Policy Based Routing – PBR

Border Gateway Protocol – BGP:

- Internal BGP
- External BGP
- Neighbours

- Verifying BGP Tables
- Route Filtering

IPv6:

- IPv6 Addressing
- IPV6 Routing
- Configuring IPv6 Address
- Tunnels

SWITCH:

Building Campus Network:

- Layer 2 Switch
- Layer 3 Switch
- Tables used in Switching
- Switch port Configuration
- VLANs & VLAN Trunks & VTP
- Ether Channel
- STP & PVST+

- Adv. STP (RSTP & MST)
- Inter VLAN Routing
- Multi-Layer Switching (MLS)

Designing Campus Networks:

- Hierarchical Network Design
- Modular Network Design
- Router Redundancy in Multilayer Switching
- HSRP
- VRRP
- GLBP

Campus Network Services:

- IP Telephony
- Wireless LANs

Securing Switched Networks:

- Port Security

- Port-based Authentication
- Mitigating Spoofing Attacks
- Best practices for Securing Switches
- TSHOOT - (642-832)
- Securing Switched Networks
- Introduction to Network Maintenance
- Introduction to Troubleshooting Process
- Maintenance & Troubleshooting
- Basic & Adv. Cisco Catalyst Switch Troubleshooting
- Introduction to Troubleshooting Routing Protocols
- Security Troubleshooting
- IP Services Troubleshooting
- IP Communications Troubleshooting
- IPv6 Troubleshooting
- Advanced Services Troubleshooting
- Large Enterprise Network Troubleshooting



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- Comprehensive course selection of Instructor-Led Training
- Logistical convenience and interactive classroom experience of Online Training
- Flexible pacing and instructor-guided support of Mentored Learning
- Self-paced convenience of Online ANYTIME

In addition:

- Interview preparation with mock interview drills
- Effective resume building
- Process of applying jobs at the right places

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