

CCNA Online training:

CCNA means Cisco Certified Network Associate. CCNA is a popular certification among computer network engineers. It is a certification program valid for all type of engineers. It includes entry-level network engineers, Network Administrators, Network Support Engineers/Specialists. It was first launched in 1998.

Topics includes:-

- LAN/WAN
- OSI and TCP/IP model
- VLANs
- Ethernet
- Switches and routers
- Network utilities (ping, tracert, arp)
- IP addressing
- Subnetting
- Routing protocols (RIP, EIGRP, OSPF)
- WLAN
- NAT
- ACLs

Infrastructure Management

- Configure and verify device-monitoring protocols
- Troubleshoot network connectivity issues using ICMP echo-based IP SLA

- Configure and verify device management
- Configure and verify initial device configuration
- Perform device maintenance
- Use Cisco IOS tools to troubleshoot and resolve problems
- Describe network programmability in enterprise network architecture

Course Content:

Basics of networking:

- OSI Layers
- IP Addressing
- Sub netting
- Interpret network diagrams
- Determine the path between two hosts across a network
- Describe the components required for network and internet communications
- Describe the operation and benefits of using private and public IP addressing
- Introduction to router, routing protocols
- Describe basic routing concepts(including :router lookup process)

- Describe the operation of Cisco routers(including: router boot up process, POST, router components)
- Manage IOS configuration files(including :save ,edit, upgrade, restore)
- Manage Cisco IOS
- Different Modes of Router
- Perform and verify routing configuration tasks for a static or default route given specific routing requirements
- Configure, verify and troubleshoot RIPv2
- Access and utilize the router to set basic parameters
- Connect, configure and verify operation status of device interface
- Verify device configuration and network connectivity using ping, trace route, telnet, or other utilities
- Configure, verify and trouble shoot EIGRP
- Configure, verify and troubleshoot OSPF(Single Area)
- Verify network connectivity (including: using ping, trace route and telnet)
- Verify router hardware and software operation using SHOW & DEBUG
- Implement basic router security
- WAN Protocols

- Implement and verify WAN links
- Describe different methods for connecting to a WAN
- Configure and verify a basic WAN serial connection
- Configure and verify Frame Relay on Cisco routers
- Troubleshoot WAN implementation issues
- Configure and verify a PPP connection between Cisco routers
- ACCESS CONTROL LIST AND NAT
- Implement, verify and troubleshoot NAT and ACLs in a medium-size Enterprise branch office network
- Describe the purpose and types of ACLs
- Configure and apply an ACLs based on network filtering requirements
- Configure and apply an ACLs to limit telnet
- Verify and monitor ACLs in a network environment
- Explain the basic operation of NAT
- Configure NAT for given network requirement
- Switching
- Explain network segmentation and basic traffic management concepts

- Verify network status and switch operation using basic utilities(including :ping, trace route, telnet, arp, ipconfig)
- SHOW & DEBUG commands
- Configure, verify and troubleshoot trucking on Cisco switches
- Configure, verify and troubleshoot inter VLAN routing
- Configure, verify, and troubleshoot VTP
- Interpret the output of various show and debug commands to verify the operational status of a Cisco switched network Implement basic switch security (including: port security, trunk access, management VLAN other than VLAN 1, etc.)
- Backup & Restoring
- Backup of Start-up configuration
- Backup of Running configuration
- Backup of Cisco router IOS
- Restoring Start-up Configuration
- Restoring Running Configuration
- Restoring IOS of a Cisco router
- Password Recovery
- Troubleshooting of Cisco Routers



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- Interview preparation with mock interview drills
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