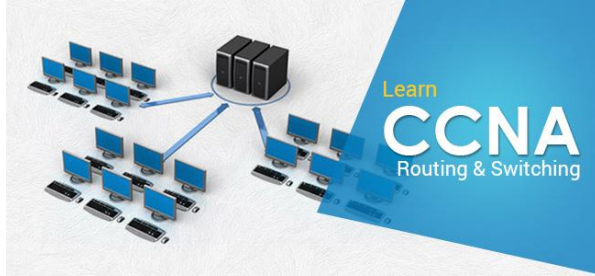


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CCNA (Cisco Certified Network Associate)

Training Details

Course Code	: HCCC20
Course Name	: CCNA (Cisco Certified Network Associate)
Duration	: 2 Months
Eligibility	: 10th / +2 / Diploma /Any Degree / Equivalent

Syllabus:

Operation of IP Data Networks

- Operation of IP Data Networks
- Recognize the purpose and functions of various network devices such as Routers, Switches, Bridges and Hubs.
- Select the components required to meet a given network specification.
- Identify common applications and their impact on the network
- Describe the purpose and basic operation of the protocols in the OSI and TCP/IP models.
- Predict the data flow between two hosts across a network.
- Identify the appropriate media, cables, ports, and connectors to connect Cisco network devices to other network devices and hosts in a LAN

Switching Technologies Describe

- Determine the technology and media access control method for Ethernet networks
- Identify basic switching concepts and the operation of Cisco switches.
- Configure and verify initial switch configuration including remote access management.
- Verify network status and switch operation using basic utilities such as ping, telnet and ssh. LAN
- Identify enhanced switching technologies
- how VLANs create logically separate networks and the need for routing between them.

Address:

163 C/1, First Floor, Kamarajar Salai,
NP TVS Showroom Opp., Ganesh Theatre Signal,
Santha Pettai Bus Stop Near,
Madurai – 625 009.



99443 35447

99944 37733

e mail : caddmaster5c@gmail.com

website : www.caddmaster5c.com

facebook: www.facebook.com/caddmaster5c/

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- Configure and verify VLANs
- Configure and verify trunking on Cisco switches
- Configure and verify PVSTP operation

IP addressing (IPv4 / IPv6)

- Describe the operation and necessity of using private and public IP addresses for IPv4 addressing
- Identify the appropriate IPv6 addressing scheme to satisfy addressing requirements in a LAN/WAN environment.
- Identify the appropriate IPv4 addressing scheme using VLSM and summarization to satisfy addressing requirements in a LAN/WAN environment.
- Describe the technological requirements for running IPv6 in conjunction with IPv4 such as dual stack
- Describe IPv6 addresses

Routing Technologies

- Describe basic routing concepts
- Describe the boot process of Cisco IOS routers
- Configure and verify utilizing the CLI to set basic Router configuration
- Configure and verify operation status of a device interface, both serial and ethernet
- Verify router configuration and network connectivity
- Configure and verify routing configuration for a static or default route given specific routing IP requirements
- Manage Cisco IOS Files
- Differentiate methods of routing and routing protocols
- Configure and verify OSPF (single area)
- Configure and verify EIGRP (single AS)
- Configure and verify inter VLAN routing (Router on a stick)
- Configure SVI interfaces

IP Services

- Configure and verify DHCP (IOS Router)
- Describe the types, features, and applications of ACLs
- Configure and verify ACLs in a network environment
- Identify the basic operation of NAT
- Configure and verify NAT for given network requirements
- Configure and verify NTP as a client
- Recognize High availability (FHRP)
- Configure and verify Syslog
- Describe SNMP v2 & v3

Network Device Security

- Configure and verify network device security features
- Configure and verify Switch Port Security features
- Configure and verify ACLs to filter network traffic
- Configure and verify an ACLs to limit telnet and SSH access to the router

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WAN Technologies

- Identify different WAN Technologies
- Configure and verify a basic WAN serial connection
- Configure and verify a PPP connection between Cisco routers
- Configure and verify Frame Relay on Cisco routers
- Implement and troubleshoot PPPoE

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