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Course: CCNA

Duration: 40 Hrs (Changeable) | Fees: Individual / Batch

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Section 1: Network Fundamentals

- * ISO/OSI Reference Model and TCP/IP Model.
- * Describe the impact of infrastructure components in an enterprise network.
- * (Firewalls, Access points , Wireless controllers)
- * Describe the effects of cloud resources on enterprise network architecture
- * Basic virtual network infrastructure.
- * Network topologies. (Star ,Mesh, Hybrid)
- * Configure, verify, and troubleshoot IPv4 addressing and subnetting.
- * Configure, verify, and troubleshoot IPv6 addressing.


Section 2: LAN Switching Technologies


- * Switch working.
- * Troubleshoot interface and cable issues (collisions, errors, duplex, speed).
- * Spanning Tree Protocol,PVST+ and RPVST+.
- * Configure, verify, and troubleshoot VLANs (normal/extended range), Intervlan
- * Routing.
- * Configure, verify, and troubleshoot interswitch connectivity (Trunk ports).
- * Configure, verify and troubleshoot STP related optional features (Portfast and
- * BPDU Guard).
- * Configure, verify, and troubleshoot (Layer 2/Layer 3) EtherChannel.(Static ,PAGP
- * ,LACP)

Section 3: Routing Technologies

- * Basic Routing concepts, Static Routing, Dynamic Routing, Default Routing.
- * Routing Protocols

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- * Rip, Rip v2 for Ipv4 and Ipv6.
- * Ospf for Ipv4 and Ipv6 and Eigrp for Ipv4 and Ipv6.
- * Troubleshoot basic Layer 3 end-to-end connectivity issues.
- * Interpret the components of a routing table (Prefix, Network Mask , Next Hop,
- * Administrative Distance, Metric, Gateway of last Resort)

Section 4: WAN Technologies

- * Configure and verify PPP and MLPPP on WAN interfaces using local
- * authentication.
- * Configure, verify, and troubleshoot GRE tunnel connectivity.
- * Describe WAN topology options.
- * Describe WAN access connectivity options.
- * Describe basic QoS concepts.

Section 5: Infrastructure Services


- * Describe DNS lookup operation.
- * Configure and verify DHCP on a router.
- * Configure, verify, and troubleshoot basic HSRP.
- * Configure, verify, and troubleshoot inside source NAT.


Section 6: Infrastructure Security

- * Configure, verify, and troubleshoot port security.
- * Describe common access layer threat mitigation techniques.
- * Configure, verify, and troubleshoot IPv4 and IPv6 access list for traffic filtering.
- * Configure, verify, and troubleshoot basic device hardening.

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- * Describe device security using AAA with TACACS+ and RADIUS.

Section 7: Infrastructure Management

- * Configure and verify device-monitoring protocols (SNMP, SYSLOG).
- * Configure and verify device management.
- * Configure and verify initial device configuration.
- * Perform device maintenance.
- * Password recovery and configuration register.
- * Use Cisco IOS tools to troubleshoot and resolve problems.
- * Describe network programmability in enterprise network architecture.

(Click on Course for more details)

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- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

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