

Days	CCNA COURSE CONTENT – HB SERVICES
1	<p>INTRODUCTION TO NETWORKING</p> <p>Number Systems</p> <ul style="list-style-type: none"> a) Binary b) Decimal c) Hexa Decimal <p>IPV4 ADDRESSING And Its Classes</p> <ul style="list-style-type: none"> a) Subnet Mask b) Reservation Of IPV4 address
2	<p>sub netting</p> <ul style="list-style-type: none"> a) FLSM <ul style="list-style-type: none"> i) Based on Subnets ii) Based On Host
3	<p>Sub netting</p> <ul style="list-style-type: none"> b) VLSM
4	<p>Introduction to Network Devices</p> <ul style="list-style-type: none"> a) Repeater b) Hub c) Bridge d) Switch e) Router <p>Introduction to types of Cable</p> <ul style="list-style-type: none"> a) Twisted Pair (Crimping) b) Co–axial c) Fiber optical

5	<p>OSI Model</p> <p>TCP/IP or DOD Model</p> <ul style="list-style-type: none"> ✓ Transmission Control Protocol (TCP) ✓ Internet Protocol (IP) ✓ User Datagram Protocol (UDP) ✓ File Transfer Protocol (FTP) ✓ Trivial File Transfer Protocol (TFTP) ✓ Simple Mail Transfer Protocol (SMTP) ✓ Hyper Text Transfer Protocol (HTTP) ✓ Simple Network Management Protocol (SNMP) ✓ Hyper Text Transfer Protocol Secure (HTTPS)
6	<p>CLASSES OF IPv4 PACKET FILTERING</p> <ul style="list-style-type: none"> • ICMP • Internet Control Message Protocol (ICMP) • Address Resolution Protocol (ARP) • Proxy ARP • Reverse Address Resolution Protocol (RARP) • Gratuitous Address Resolution Protocol (GARP) • Troubleshooting commands
7	<p>ROUTER</p> <ul style="list-style-type: none"> • Router modes • Configuring routers with password • Telnet • Router memory components
8	<p>CISCO IOS</p> <ul style="list-style-type: none"> • Booting process • TFTP server • CDP
9	<p>ROUTING</p> <ul style="list-style-type: none"> • Types of routing • Configuring Static Routing • Troubleshooting
10	Task on Above Scenario
11	Configuring Static routing with FLSM and VLSM
12	<p>DYNAMIC ROUTING</p> <ul style="list-style-type: none"> • RIP (Distance Vector Algorithm) <ul style="list-style-type: none"> a. Debugging RIP b. Analysis of RIP
13	<p>RIPv2</p> <ul style="list-style-type: none"> • Configuration • Troubleshooting • Route summarization

14	<p>EIGRP(Advanced Distance Vector Algorithm)</p> <ul style="list-style-type: none"> • Configuration • EIGRP messages <ul style="list-style-type: none"> a. Hello packets b. Acknowledgement packet c. Update packet d. Query packets e. Reply packets f. Request packets
15	<p>EIGRP neighbour discovery</p> <ul style="list-style-type: none"> • EIGRP neighbour table • EIGRP topology table • Troubleshooting with metric weightage
16	<p>OSPF (Link-state Algorithm)</p> <ul style="list-style-type: none"> • Configuration • OSPF packet types • OSPF in point to point network • Troubleshooting
17	<p>OSPF</p> <ul style="list-style-type: none"> • Configuring OSPF in broadcast multi-access • Understanding DR, BDR & DR other • Troubleshooting
18	<p>OSPF</p> <ul style="list-style-type: none"> • Configuring OSPF in non-broadcast multi-access • OSPF in multi-area
19	<p>REDISTRIBUTIONS</p> <ul style="list-style-type: none"> • Multiple protocols • Multiple autonomous system(EIGRP)
20	<p>NAT</p> <ul style="list-style-type: none"> • Static NAT • Dynamic NAT • NAT overload (PAT)
21	<p>ACCESS CONTROL LIST</p> <ul style="list-style-type: none"> • Standard ACL • Extended ACL <p>ACL Rule 1 - Use only one ACL per interface per direction.</p> <p>ACL Rule 2 - The lines are processed top-down.</p> <p>ACL Rule 3 - There is an implicit “deny all” at the bottom of every ACL.</p> <p>ACL Rule 4 - The router can’t filter self-generated traffic.</p> <p>ACL Rule 5 - You can’t edit a live ACL. ACL Rule 6 - Disable the ACL on the interface.</p> <p>ACL Rule 7 - You can reuse the same ACL.</p> <p>ACL Rule 8 - Keep them short!</p> <p>ACL Rule 9 - Put your ACL as close to the source as possible.</p>

22	DHCP Configuration DHCP relay agent Configuration DNS - Theory
23	WAN Technologies <ul style="list-style-type: none"> • HDLC • PPP Configuration <ul style="list-style-type: none"> a) PAP b) CHAP
24	WAN Technologies Frame relay Configuration
25	MPLS Configuration VPN Tunnel Configuration
26	SWITCHING <ul style="list-style-type: none"> • Collision & Broadcast domain • Switching frames • VLAN - Configuration • End to End VLAN Configuration
27	Inter VLAN Routing Configuration <ul style="list-style-type: none"> a) Generic IVR
28	Configuring and verifying trunk links <ul style="list-style-type: none"> • DTP • Trunking • IEEE 802.1Q, Native VLAN • ISL • Inter-VLAN routing
29	STP <ul style="list-style-type: none"> • STP blocking state • STP listening state • STP learning state • STP forwarding state BPDUs STP Bridge id STP bridge election STP root port election STP Designated port election Port cost and path cost
30	RSTP PVSTP
31	Ether-channel Configuration HSRP - Configuration
32	IPv6 Routing Types

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