



CCNA (Volume-1)

Course Curriculum

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Course Overview: *The CCNA course indicates a foundation in and apprentice knowledge of networking. An individual that has the CCNA certification can install, configure, and operate LAN, WAN, and dial access services for small networks (100 nodes or fewer), including but not limited to use of these protocols: IPV4 , IPV6, EIGRP, Serial, Frame Relay, VLANs, OSPF v2 , OSPF v3, Ethernet, Access List. Our CCNA program is designed to prepare candidates for today's associate-level job roles in IT technologies. CCNA now includes security and automation and programmability.*

MODULE	TOPIC	OBJECTIVES
1	Introduction to Internetworking	<ol style="list-style-type: none"> 1. Describe the impact of infrastructure components in an Enterprise Network. 2. Firewalls Access Points. 3. Wireless Controllers. 4. Compare and contrast Network Topologies.
2	Ethernet Networking	<ol style="list-style-type: none"> 1. Select the appropriate Cabling type based on Implementation Requirement. 2. Compare and contrast Collapsed Core and three-tier Architectures
3	Data Encapsulation	<ol style="list-style-type: none"> 3. Interpret Ethernet Frame Format
4	Introduction to TCP/IP	<ol style="list-style-type: none"> 1. Compare and contrast OSI and TCP/IP models 2. Compare and contrast TCP and UDP protocols
5	Easy Subnet	<ol style="list-style-type: none"> 1. Compare and contrast IPv4 address types 2. Unicast, Broadcast, Multicast 3. Describe the need for Private IPv4 Addressing

MODULE	TOPIC	OBJECTIVES
7	Troubleshooting of IP	Subnetting Basics, How to create Subnet, Subnet Mask and CIDR, Class B,C Subnetting, Troubleshooting IP Addressing.
8	Cisco IOS	Knowledge of Cisco Router IOS, Configuring Administrative Functions
9	Managing Cisco IOS. Managing Cisco Devices	Identification of Router component. Backing up and Restoring IOS. Backing up and Restoring Configuration. Password Recovery
10	IP Routing	<ol style="list-style-type: none"> 1. Understanding IP Routing 2. Static Routing 3. Dynamic Routing 4. RIPV1&RIPV2
11	Wide Area Network	Introduction to WAN's HDLC PPP Frame Relay Introduction to VPN's

