

### CISCO Certified Network Associate

**Description:** CCNA Routing and Switching training will provide students with the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks. This CCNA Routing and Switching program provides the knowledge and skills to make connections to remote sites via a WAN, mitigate basic security threats, and understand the requirements for wireless network access. CCNA Routing and Switching training covers (but is not limited to) the use of these protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2), VLANs, Ethernet, and access control lists (ACLs).

Cisco Certified Network Associate (CCNA) Routing and Switching is a program for entry-level network engineers that helps maximize your investment in foundational networking knowledge and increase the value of your employer's network. The CCNA Routing and Switching validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks.

***Upon successful completion of this course, students will have learned to:***

- Describe network fundamentals and build simple LANs
- Establish Internet connectivity
- Manage network device security
- Describe the TCP/IP internet Layer, IPv4, its addressing scheme, and subnetting
- Describe the TCP/IP Transport layer and Application layer
- Describe IPv6 main features, addresses and configure and verify basic IPv6 connectivity
- Troubleshoot VLAN issues, explain how STP works, configure EtherChannel, and understand the idea behind Layer 3 redundancy
- Troubleshoot IP connectivity
- Define the characteristics, functions, and components of a WAN Configure and troubleshoot EIGRP in an IPv4 environment, and configure EIGRP for IPv6
- Configure, verify, and troubleshoot multi-area OSPF
- Describe SNMP, syslog and NetFlow, and manage Cisco device configurations, IOS images, and licenses
- Configure internet access using DHCP clients and explain and configure NAT on Cisco routers
- Describe the basic QoS concepts
- Describe the concepts of wireless networks, which types of wireless networks can be built and how to use WLC

This course is offered as a full-time 10- week program containing 180 hours of course instruction.

Tuition Breakdown with exam cost 10 Week Program (180 hours)	
Tuition Cost	\$10,400.00
Course Materials	Included
Total Program Cost	\$10,400.00

Tuition Breakdown without exam cost 10 Week Program (180 hours)	
Tuition Cost	\$10,100.00
Course Materials	Included
Total Program Cost	\$10,100.00

