Cisco Certified Network Associate (CCNA)

What is CCNA?
The Cisco Certified Network Associate Program (CCNA) trains students on how to install, configure and maintain simple networks using Cisco devices. This program will also train students to install and configure Cisco switches and routers in multiprotocol internetworks using LAN and WAN interfaces. In addition, the program prepares students to take the CCNA Certification test administered by VUE. Obtaining Cisco certification validates an individual's achievement and increases the holder's professional credibility by demonstrating high standards of technical expertise. The program consists of lectures, online curriculum, exams and networking practices for CCNA certification requirements.

Career Opportunities
The CCNA program prepares students to become help desk engineers, field technicians, level 1 system engineers and integrators.

Admission Requirements:
To be admitted into the CCNA program, an individual should possess:
A working knowledge of Microsoft Windows 98, NT, 2000 or XP
A working knowledge of software and hardware
Networking experience or any previous networking essentials exposure.

Please Note: For those without computer or networking experience, Advanced Technology Institute offers the Cisco Network Academy Program. This program prepares students for the Cisco® exams, but at a slower pace. Click here for more information.

Detailed Course Description:
The Cisco CCNA certification training course was developed by Cisco Systems. Employers worldwide are looking for highly trained networking experts who can keep up with the latest technologies in order to maximize performance. The industry shortage for personnel with advanced Cisco and internetworking knowledge increases daily, as a result, Cisco Systems has introduced Cisco Career Certifications. Cisco experts are the elite of the internetworking industry, considered pivotal in meeting the increasingly demanding nature of internetworking in terms of deploying network functionality, reliability and scalability. The course uses a combination of examinations lectures, handouts, discussions, exercises, and extensive hands-on lab time. Overall, Cisco certification validates an individual's achievement, so it increases the holder's professional credibility by ensuring high standards of technical expertise.
Course Objectives:
Upon completion of this course, students will comprehend the following objectives:
- Physical components of a Cisco router
- Boot-up sequence of a Cisco router, IOS image management
- Configuring a router upon initial start-up
- IP addressing, IP address classes, and allocation
- Upgrading a Cisco router, downloading and uploading from a TFTP server
- Using global configuration mode to assign IP addresses to an interface
- Distant Vectoring, and Link State routing protocols
- Enabling RIP, and IGRP on a router, exchanging updates with a neighboring router
- Implementing security on a router utilizing access-lists
- Understanding DHCP, DSL, Cable modems, ARP, Reverse-ARP
- Wan connectivity with Frame Relay, Point-to-point protocol, and ISDN

Cisco Exams and Recommended Training
Required Exam(s) Recommended Training

640-802 CCNA
   Interconnecting Cisco Networking Devices-Part 1 (ICND1)
   Interconnecting Cisco Networking Devices-Part 2 (ICDN2)

OR

640-822 ICND1 Interconnecting Cisco Networking Devices (ICND 1)

641-816 ICDN2 Interconnecting Cisco Networking Devices (ICDN2)

Books and Materials:
CCNA Self-Study: Interconnecting Cisco Network Devices (ICND1) 640-822, 640-802
by WENDELL ODOM, Cisco Press, 2st Edition
ISBN 1-58720-182-8