

# CCNA

CISCO ASSOCIATE-LEVEL CERTIFICATIONS





*fast lane*

Widely respected throughout the world, Cisco Certifications substantiate the knowledge and skills of certified individuals. They rank among the most sought-after qualifications for internetworking professionals.

These highly specialized, associate-level concentrations are designed to build upon Cisco's most popular career certification CCNA (Cisco Certified Network Associate) and to offer individuals a career stepping stone in the converged technologies that make up today's sophisticated network. Fast Lane offers all training recommended by Cisco in preparation for the new CCNA concentrations and prepares you to take the necessary exams.

# CCNA ROUTING & SWITCHING CERTIFICATION

The CCNA certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks. CCNA certified professionals have 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 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).

**Prerequisites:** None

## Recommended Training:

### *Interconnecting Cisco Networking Devices Part 1 (ICND1)*

This five-day course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small branch office Enterprise network, including configuring a switch, a router, and connecting to a WAN and implementing network security. A Student should be able to complete configuration and implementation of a small branch office network under supervision.

#### *Course Objectives*

- Describe how networks function, identifying major components, function of network components and the Open System Interconnection (OSI) reference model.
- Using the host-to-host packet delivery process, describe issues related to increasing traffic on an Ethernet LAN and identify switched LAN technology solutions to Ethernet networking issues.
- Describes the reasons for extending the reach of a LAN and the methods that can be used with a focus on RF wireless access.
- Describes the reasons for connecting networks with routers and how routed networks transmit data through networks using TCP / IP.
- Describe the function of Wide Area Networks (WANs), the major devices of WANs, and configure PPP encapsulation, static and dynamic routing, PAT and RIP routing.
- Use the command-line interface to discover neighbors on the network and managing the router's startup and configuration.

### *Interconnecting Cisco Networking Devices Part 2 (ICND2)*

This five-day course focuses on providing the skills and knowledge necessary to install, operate, and troubleshoot a small to medium-size branch office Enterprise network, including configuring several switches and routers, connecting to a WAN and implementing network security.

#### *Course Objectives*

- Review how to configure and troubleshoot a small network.
- Expand the switched network from a small LAN to a medium-sized LAN with multiple switches, supporting VLANs, trunking, and spanning tree.
- Describe routing concepts as they apply to a medium-sized network and discuss considerations when implementing routing on the network.
- Configure, verify, and troubleshoot OSPF.
- Configure, verify, and troubleshoot EIGRP.
- Determine how to apply ACLs based on network requirements, and to configure, verify, and troubleshoot ACLs on a medium-sized network.
- Describe when to use NAT or PAT on a medium-sized network, and configure NAT or PAT on routers.
- Identify and implement the appropriate WAN technology based on network requirements.

**Required Exam(s): 640-802 CCNA or 640-822 ICND1 & 640-816 ICND2**

#### **SCHEDULE**

May 18-22, 2009	Boston, MA
Jun 1-5, 2009	Los Angeles (El Segundo), CA
Jun 1-5, 2009	San Jose, CA
Jun 1-5, 2009	Columbia, MD
Jun 8-12, 2009	Houston, TX
Jun 8-12, 2009	Miami, FL
Jun 8-12, 2009	Chicago, IL
Jun 15-19, 2009	Atlanta, GA
Jun 15-19, 2009	Seattle
Jun 22-26, 2009	Raleigh/Durham, NC (Cary)

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Jun 1-5, 2009	Boston, MA
Jun 8-12, 2009	Los Angeles (El Segundo), CA
Jun 8-12, 2009	San Jose, CA
Jun 8-12, 2009	Columbia, MD
Jun 15-19, 2009	Chicago, IL
Jun 15-19, 2009	Houston, TX
Jun 15-19, 2009	Miami, FL
Jun 22-26, 2009	Atlanta, GA
Jun 22-26, 2009	Seattle
Jun 29-Jul 3, 2009	Raleigh/Durham, NC (Cary)



# CCNA SECURITY CERTIFICATION

CCNA Security Certification meets the needs of IT professionals who are responsible for network security. It confirms an individual's skills for job roles such as Network Security Specialists, Security Administrators, and Network Security Support Engineers. This certification validates skills including installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices and develops competency in the technologies that Cisco uses in its security structure.

Students completing the recommended Cisco training will gain an introduction to core security technologies as well as how to develop security policies and mitigate risks. IT organizations that employ CCNA Security-holders will have IT staff that can develop a security infrastructure, recognize threats and vulnerabilities to networks, and mitigate security threats.

**Prerequisites:** Valid CCNA

## Recommended Training:

### *Implementing Cisco IOS Network Security (IINS)*

This five-day course focuses on the necessity of a comprehensive security policy and how it affects the posture of the network. Learners will be able to perform basic tasks to secure a small branch type office network using Cisco IOS security features available through web-based GUIs (Cisco Router and Security Device Manager [SDM]) and the command-line interface (CLI) on the Cisco routers and switches.

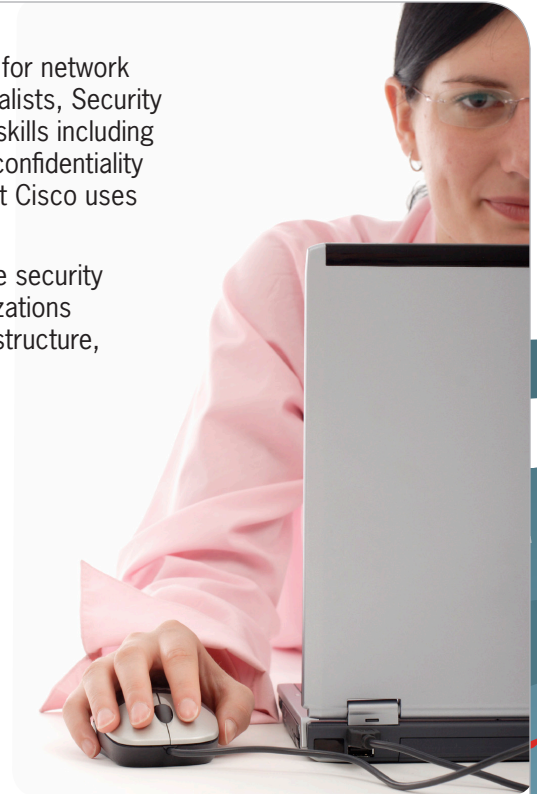
### *Course Objectives*

- Develop a comprehensive network security policy to counter threats against information security.
- Configure routers on the network perimeter with Cisco IOS Software security features.
- Configure a Cisco IOS zone-based firewall to perform basic security operations on a network.
- Configure site-to-site VPNs using Cisco IOS features.
- Configure IPS on Cisco network routers.
- Configure LAN devices to control access, resist attacks, shield other network devices and systems, and protect the integrity and confidentiality of network traffic.

## Required Exam(s): 640-553 IINS

### SCHEDULE

May 4-8, 2009	Sunnyvale, CA
Jun 8-12, 2009	Boston, MA
Jun 15-19, 2009	San Jose, CA
Jun 15-19, 2009	Columbia, MD
Jun 15-19, 2009	Los Angeles (El Segundo), CA
Jun 22-26, 2009	Houston, TX
Jun 22-26, 2009	Miami, FL
Jun 22-26, 2009	Chicago, IL
Jun 29-Jul 3, 2009	Atlanta, GA
Jun 29-Jul 3, 2009	Seattle



# CCNA VOICE CERTIFICATION

The Cisco CCNA Voice certification confirms that you have the required skill set for specialized job roles in voice technologies such as voice technologies administrator, voice engineer, and voice manager. It validates skills in VoIP technologies such as IP PBX, IP telephony, handset, call control, and voicemail solutions.

The CCNA Voice Certification enables employers to validate that their staff possess a strong foundation in voice applications and infrastructure concepts; and are capable of performing baseline installation, operating, and maintenance tasks on Cisco VoIP solutions, particularly the Smart Business Communications System from 8-250 lines.

**Prerequisites:** Valid CCNA

## Recommended Training:

### *Implementing Cisco IOS Unified Communications (IUC)*

This 5-day course provides the student with Unified Communications concepts, component definition and high level designs. This is also the core technology course in the certification path to achieve the CCNA Voice designation. Students will be able to implement and configure small to medium sized IP Telephony solutions. UC products covered during labs include the Cisco Unified Communications Manager Express / Cisco Unity Express and the UC500 Smart Business Communications System.

### *Course Objectives*

- Describe the components of the Cisco Unified Communications Architecture
- Describe PSTN components and technologies
- Describe how to interconnect VoIP with service provider networks
- Implement a UC 500 system using Cisco Configuration Assistant
- Implement Cisco Unified Communications Manager Express to support endpoints using Cisco CLI Commands
- Implement Cisco Unified Communications Manager Express to connect to service provider networks using CLI commands
- Implement Cisco Unity Express in a Cisco Unified Communications Manager Express environment using CLI commands
- Perform basic maintenance and operations tasks to support UC 500 and Cisco Unified Communications Manager express deployments

**Required Exam(s): 640-460 IUC**



## SCHEDULE

May 18-22, 2009	Sunnyvale, CA
Jun 22-26, 2009	Sunnyvale, CA
Jun 22-26, 2009	Boston, MA
Jun 29-Jul 3, 2009	Los Angeles (El Segundo), CA
Jun 29-Jul 3, 2009	San Jose, CA
Jun 29-Jul 3, 2009	Columbia, MD
Jul 6-10, 2009	Houston, TX
Jul 6-10, 2009	Chicago, IL
Jul 6-10, 2009	Miami, FL
Jul 13-17, 2009	Atlanta, GA

# CCNA WIRELESS CERTIFICATION

CCNA Wireless recognizes the critical importance of professionals supporting wireless LANs including Networking Associates/Administrators, Wireless Support Specialists and WLAN project managers.

The CCNA Wireless Certification validates candidate's skills in the configuration, implementation and support of wireless LANs, specifically those networks using Cisco equipment. Students completing the recommended Cisco training are provided with information and practice activities to prepare them for, configuring, monitoring and troubleshooting basic tasks of a Cisco WLAN in SMB and Enterprise networks. Employers will be able to validate their staff have the skills needed for basic wireless networking on a Cisco WLAN in SMB and enterprise networks after completing certification.



**Prerequisites:** Valid CCNA

## Recommended Training:

### *Implementing Cisco Unified Wireless Networking Essentials (IUNWE)*

This 5-day course provides the student with Unified Communications concepts, component definition and high level designs. This is also the core technology course in the certification path to achieve the CCNA Voice designation. Students will be able to implement and configure small to medium sized IP Telephony solutions. UC products covered during labs include the Cisco Unified Communications Manager Express / Cisco Unity Express and the UC500 Smart Business Communications System.

### *Course Objectives*

- Describe the components of the Cisco Unified Communications Architecture
- Describe PSTN components and technologies
- Describe how to interconnect VoIP with service provider networks
- Implement a UC 500 system using Cisco Configuration Assistant
- Implement Cisco Unified Communications Manager Express to support endpoints using Cisco CLI Commands
- Implement Cisco Unified Communications Manager Express to connect to service provider networks using CLI commands
- Implement Cisco Unity Express in a Cisco Unified Communications Manager Express environment using CLI commands
- Perform basic maintenance and operations tasks to support UC 500 and Cisco Unified Communications Manager express deployments

## Required Exam(s): 640-721 IUNWE

### SCHEDULE

Jun 29-Jul 3, 2009	Boston, MA
Jul 6-10, 2009	San Jose, CA
Jul 6-10, 2009	Columbia, MD
Jul 6-10, 2009	Los Angeles (El Segundo), CA
Jul 13-17, 2009	Miami, FL
Jul 13-17, 2009	Houston, TX
Jul 13-17, 2009	Chicago, IL
Jul 20-24, 2009	Atlanta, GA
Jul 20-24, 2009	Seattle

## ABOUT FAST LANE

Fast Lane, a leading world-wide provider of advanced IT Training courses, offers complete Authorized training solutions for Cisco, NetApp, IBM, VMware, Ubuntu and more. We have also developed other advanced technology courses to ensure you receive the right training for your career. Fast Lane's traditional and Instructor-Led Online (ILO) courses utilize Authorized Vendor and custom developed curriculum. Our strictly managed program guarantees that training with Fast Lane provides the highest level of educational quality.

Learning with Fast Lane means real-world experience that translates from the classroom to the job with ease. Our Vendor-Certified instructors have expertise with the most advanced technologies and can explain each at a level that ensures individual students gain the knowledge and skills to immediately impact their productivity. Plus, Fast Lane offers a variety of Foundation Courses led by our Vendor Certified Instructors which will prepare you for use of the hottest technologies.

At Fast Lane, you can be assured of one thing...quality training that prepares you for real-world application. We're here to help you build the foundation for an exciting IT career. Get started on yours.

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