Fast Lane

CCNA
Cisco Associate-
Level Certifications

Routing & Switching

Security

Voice

Wireless

Advance your network engineering skills in working on complex Cisco network solutions.

Cisco CCNA Certifications

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.

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 (Cisco Certified Network Associate) Certification

Cisco Certified Network Associate (CCNA) validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN.

Recommended CCNA Training

Interconnecting Cisco Network Devices 1 (ICND1)	**3**
Interconnecting Cisco Network Devices 2 (ICND2)	**3**

CCNA Security Certification

CCNA Security validates associate-level knowledge and skills required to secure Cisco networks. With a CCNA Security, a network professional demonstrates the skills required to develop a security infrastructure, recognize threats and vulnerabilities to networks, and mitigate security threats.

Recommended CCNA Security Training

Implementing Cisco IOS Network Security (IINS)	**4**

CCNA Voice Certification

CCNA Voice validates skills in VoIP technologies such as IP PBX, IP telephony, handset, call control, and voicemail solutions. Candidates also get exposure to the Cisco Unified Communications architecture and design covering mobility, presence, and TelePresence applications.

Recommended CCNA Voice Training

Implementing Cisco IOS Unified Communications (IIUC)	**5**

CCNA Wireless Certification

CCNA Wireless validates skills in the configuration, implementation and support of a Cisco WLAN in SMB and enterprise networks.

Recommended CCNA Wireless Training

Implementing Cisco Unified Wireless Networking Essentials (IUWNE)	**5**

CCNA Routing & Switching Certification

Interconnecting Cisco Network Devices 1 (ICND1)

ID CI-ICND1
Price $2,995 or 30 CLCs
Duration 5 days

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).

COURSE OBJECTIVES

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 CONTENT

- 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 Network Devices 2 (ICND2)

ID CI-ICND2
Price $2,995 or 30 CLCs
Duration 5 days

COURSE OBJECTIVES

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 CONTENT

- 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

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.

By completing the recommended Cisco training, you 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.

Implementing Cisco IOS Network Security (IINS)

ID CI-IINS
Price $3,195 or 32 CLCs
Duration 5 days

COURSE OBJECTIVES

This five-day course focuses on the necessity of a comprehensive security policy and how it affects the posture of the network. You 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) and the command-line interface (CLI) on the Cisco routers and switches.

COURSE CONTENT

- Introduction to Network Security Principles: Network Security Fundamentals; Attack Methodologies; Operations Security; Cisco Self-Defending Networks
- Perimeter Security: Administrative Access to Cisco Routers; Cisco SDM; AAA on a Cisco Router Using the Local Database and on Secure ACS; Secure Management/Reporting; Locking Down the Router
- Network Security Using Cisco IOS Firewalls: Firewall Technologies; Static Packet Filters Using ACLs; Cisco IOS Zone-Based Policy Firewall
- Site-to-Site VPNs: Cryptographic Services; Symmetric Encryption; Examining Cryptographic Hashes and Digital Signatures; Asymmetric Encryption and PKI; IPsec Fundamentals; Site-to-Site IPsec VPN: IPsec on a Site-to-Site VPN Using Cisco SDM
- Network Security Using Cisco IOS IPS: IPS Technologies, Cisco IOS IPS Using Cisco SDM
- LAN, SAN, Voice, and Endpoint Security Overview: Endpoint Security; SAN Security; Voice Security; Layer 2 Attacks

Required Exam: 640-553 IINS

CCNA Wireless and Voice Certification

Implementing Cisco Unified Wireless Networking Essentials (IUWNE)

ID CI-IUWNE
Price $3,295 or 33 CLCs
Duration 5 days

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.

COURSE OBJECTIVES

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 implement and configure small to medium sized IP Telephony solutions. UC products covered during labs include the Cisco Unified Communicatons 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: 640-721 IUWNE

Implementing Cisco IOS Unified Communications (IIUC)

ID CI-IIUC
Price $3,195 or 32 CLCs
Duration 5 days

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.

COURSE OBJECTIVES

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 CONTENT

- 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

Required Exam: 640-460 IIUC

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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REGISTRATION:

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