

## CISCO CCNA - 640-801

### CERTIFIED CISCO NETWORK ADMINISTRATOR



### ADVANCE YOUR CAREER!

The companion CD-ROMs contain a powerful new testing engine that allows you to focus on individual topic areas or take complete, timed exams from INTRO, ICND, or unified CCNA test banks. The assessment engine also tracks your performance and provides feedback on a module-by-module basis, presenting question-by-question remediation to the text and laying out a complete study plan for review. The CD-ROMs also include a wealth of hands-on practice exercises and a copy of the Boson NetSim(tm) for CCNA, Learning Edition, network simulation software that allows you to practice your hands-on skills in a virtual lab environment.



CCNA 640-801 training, for Cisco's introductory level certification, will prepare you to select, connect, configure, and troubleshoot various Cisco networking devices. Cisco CCNA certified professionals can extend switched networks with virtual local area networks, determine Internet Protocol (IP) routes, manage IP traffic with access lists, and establish point-to-point and Frame Relay connections.

#### THE CCNA COURSE FEATURES:

- Instructor led training on CD Rom
- Digital audio/video presentations
- Money Back Guarantee\*
- Hands-on exercises
- FREE educational support from our certified staff
- Test prep simulators
- Comprehensive books and study guides
- Affordable pricing
- Free Upgrades\*
- Virtual Lab Simulator

#### EXAM DESCRIPTION

The CCNA exam is the qualifying exam available to candidates pursuing a single-exam option for the Cisco Certified Network Associate CCNA certification. The CCNA (640-801) exam will test materials from the new Interconnection Cisco Network Devices (ICND) course as well as the new Introduction to Cisco Networking Technologies (INTRO) course. The exam will certify that the successful candidate has important knowledge and skills necessary to select, connect, configure, and troubleshoot the various Cisco networking devices. The exam covers topics on Extending Switched Networks with VLANs, Determining IP Routes, Managing IP traffic with Access Lists, Establishing Point-to-Point connections, and Establishing Frame Relay Connections.

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### CCNA TRAINING COURSE

#### Planning & Designing

- Design a simple LAN using Cisco Technology
- Design an IP addressing scheme to meet design requirements
- Select an appropriate routing protocol based on user requirements
- Design a simple internetwork using Cisco technology
- Develop an access list to meet user specifications
- Choose WAN services to meet customer requirements

#### Implementation & Operation

- Configure routing protocols given user requirements
- Configure IP addresses, subnet masks, and gateway addresses on routers and hosts
- Configure a router for additional administrative functionality
- Configure a switch with VLANs and inter-switch communication
- Implement a LAN
- Customize a switch configuration to meet specified network requirements
- Manage system image and device configuration files
- Perform an initial configuration on a router
- Perform an initial configuration on a switch
- Implement access lists
- Implement simple WAN protocols

#### Troubleshooting

- Utilize the OSI model as a guide for systematic network troubleshooting
- Perform LAN and VLAN troubleshooting
- Troubleshoot routing protocols
- Troubleshoot IP addressing and host configuration
- Troubleshoot a device as part of a working network
- Troubleshoot an access list
- Perform simple WAN troubleshooting

#### Technology

- Describe network communications using layered models
- Describe the Spanning Tree process
- Compare and contrast key characteristics of LAN environments
- Evaluate the characteristics of routing protocols
- Evaluate TCP/IP communication process and its associated protocols
- Describe the components of network devices
- Evaluate rules for packet control
- Evaluate key characteristics of WAN's