

## Cisco CCNA Certification Fast Track Programme

Längd: 5 Days    Kurskod: CCNABC

### Sammanfattning:

This course will prepare you for the new version of the CCNA Composite Exam (640-802 CCNA)

Based on our Cisco ICND1 and ICND2 courses, our CCNA Boot Camp is an intensive program, designed to help you achieve your CCNA certification in the shortest period of time possible. To maximize your classroom experience and ensure that you get comprehensive coverage of the CCNA materials, our three-step, blended learning approach to the CCNA Boot Camp consists of:

Pre-Class Activity, Classroom Instruction, Post-Class Lab Practice, The Pre-Class Activity provides you with approximately ten hours of review materials and exercises, including a pre-test assessment, Self-Paced e-Learning content, and a readiness test, all designed to give you a firm foundation and get you focused and prepared to get the most out of Classroom Instruction.

Classroom Instruction includes intensive instructor-led training and hands-on labs where you'll learn to install, configure, operate, and troubleshoot medium-sized routed and switched networks. You'll also learn the basics of wireless networking as well as mitigating security threats. During Classroom Instruction, you'll have 24-hour lab access.

Following Classroom Instruction, we include both the ICND1 and ICND2 Self-Paced e-Learning CDs so you can continue your studying any time, anywhere.

We have delivered an Authorized CCNA Boot Camp longer than any other Cisco Partner, the best available, to make sure you achieve your goals.

You Get...Approximately 10 hours of pre-class activity, Enhanced content that exceeds standard authorized Cisco content, World-class Certified Cisco Systems instructors, CCNA workbook and lab guide, including exclusive additional labs, Additional study aids to help you pass the CCNA exam, Free ICND1 and ICND2 Self-Paced e-Learning CDs, Access to Self Test Software's exam prep products

### Målgrupp:

Individuals who possess a general networking background, have some experience with Cisco IOS, and are seeking CCNA certification should consider this class as the quickest way to meet the requirements of the CCNA exam.

### Målsättning:

- How networks function, network components and their functions, and the Open Systems Interconnection (OSI) reference model
- Distance vector routing protocols
- Link state routing
- Binary, decimal, and hexadecimal numbering
- Review how to configure and troubleshoot a switch and router in a small network environment
- Switching operations and theory
- Host-to-Host packet delivery process
- Expand the switched network from a small to medium network environment
- TCP/IP network addressing and routing
- Implementing VLSM
- IP subnetting
- Configure, verify, and troubleshoot OSPF
- Providing Local Area (LAN), Wide Area (WAN), and remote access services
- Configure, verify, and troubleshoot EIGRP
- (VPN), Content Delivery Networks (CDN), Intranets and extranets, and wireless networking
- Configure, verify, and troubleshoot ACLs
- Introduction to Cisco Internet Operating System (IOS)
- Configure NAT and PAT
- Initial configuration of Cisco Catalyst Switches and Routers
- IPv6 addressing
- Network discovery and management using Cisco Discovery Protocol (CDP), telnet, and Trivial FTP (TFTP)
- Configure PPP, CHAP, and PAP
- Frame Relay operation
- Interconnect networks using TCP/IP
- VPN solutions
- Dangers of redundant switching
- Spanning Tree
- Concepts of VLANs and trunking

- Advanced network theory, including Virtual Private Networks  
Determine when to use access control lists (ACLs)
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### Förkunskaper:

Prior to attending CCNA, you should be very familiar with networking topics such as TCP/IP, IP configuration, peer-to-peer networking, subnetting, building a routing table, and other network protocols, standards, and architecture. If you're new to networking and to Cisco IOS, consider taking the ICND1 and ICND2 classes. We strongly encourage career changers and people new to internetworking to gain the foundation knowledge needed by taking our CCENT e-Camp.

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### Fortsättningskurs:

- BSCI - Building Scalable Cisco Internetworks v3.0
  - BCMSN - Building Cisco Multilayer Switched Networks v3.0
  - CCDA Boot Camp
  - CVOICE - Cisco Voice over IP v6.0
  - SND - Securing Cisco Network Devices
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## Innehåll:

### 1. Building a Simple Network (ICND1)

- Exploring the Functions of Networking
- Securing the Network
- Host-to-Host Communication Model
- TCP/IP's Internet Layer
- TCP/IP's Transport Layer
- Packet Delivery Process
- Understanding Ethernet
- Connecting to an Ethernet LAN

### 2. Ethernet LANs (ICND1)

- Challenges of Shared LANs
- Solving Network Challenges with Switched LAN Technology
- Packet Delivery Process
- Operating Cisco IOS Software
- Starting the Switch
- Understanding Switch Security
- Maximizing the Benefits of Switching
- Troubleshooting Switch Issues

### 3. Wireless Local Area Networks (WLANS) (ICND1)

- Exploring Wireless Networking
- Understanding WLAN Security
- Implementing a WLAN

### 4. LAN Connections (ICND1)

- Functions of Routing
- Understanding Binary Basics
- Constructing a Network Addressing Scheme
- Starting a Router
- Configuring a Router
- Packet Delivery Process
- Understanding Router Security
- Using Cisco Router and Security Device Manager
- Using a Router as a DHCP Server
- Accessing Remote Devices

### 5. Network Environment Management (ICND1)

- Discovering Neighbors on the Network
- Managing Router Startup and Configuration
- Managing Cisco Devices

### 6. Small Network Implementation (ICND2)

- Review Lab: Review of a Small Network Environment

### 7. Medium-Sized Switched Network Construction (ICND2)

- Implementing VLANs and Trunks
- Improving Performance with Spanning Tree
- Routing Between VLANs
- Securing the Expanded Network
- Troubleshooting Switched Networks

### 8. Wide Area Networks (WANs) (ICND1)

- WAN Technologies
- Enabling the Internet Connection
- Enabling Static Routing
- Configuring Serial Encapsulation
- Enabling Routing Information Protocol (RIP)

### 9. LAN Extension into a WAN (ICND2)

- Establishing a Point-to-Point WAN Connection with PPP
- Establishing a WAN Connection with Frame Relay
- Troubleshooting Frame Relay WANs
- Introducing VPN Solutions

### 10. Medium-Sized Routed Network Construction (ICND2)

- Reviewing Routing Operations
- Implementing VLSM

### 11. Single Area OSPF Implementation (ICND2)

- Implementing OSPF
- Troubleshooting OSPF

### 12. EIGRP Implementation (ICND2)

- Implementing EIGRP
- Troubleshooting EIGRP

### 13. Access Control Lists (ACLs) (ICND2)

- Introducing ACL Operation
- Configuring and Troubleshooting ACLs

### 14. Address Space Management (ICND2)

- Scaling the Network with NAT and PAT
- Transitioning to IPv6

## Additional Information:

Class begins each day at 09.00 and may extend until 20.00 or later. Students should expect class to run late into the evening on most days. In a typical Boot Camp, it is not uncommon for some students to remain past 20.00, depending upon the class size and experience of the students.

## Övrig information:

För mer information eller kursbokning, vänligen kontakta oss på telefon. 020-73 73 73

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