

## Cisco CCNA Bootcamp (CCNAX - Accelerated) + examen

Duration: 5 Days Course Code: CCNABC Version: 3.0

### Overview:

#### Nederlands:

Onze versnelde CCNA Boot Camp is een intensief programma die is bedoeld om in korte tijd uw CCNA-certificaat te halen. De training is ontworpen om deelnemers te leren hoe een IPv4 en IPv6 netwerk te installeren, managen, configureren en verifiëren, inclusief het configureren van een LAN-switch, het configureren van een IP-router, de aansluiting op een WAN en het identificeren van basis security bedreigingen. Tijdens de training wordt gebruik gemaakt van labs. De labs zijn belangrijk om de concepten die worden uitgelegd goed te kunnen uitproberen in een gesimuleerde praktijk situatie. Studenten hebben in totaal 120 uur toegang tot de labs gedurende een periode van 180 dagen inclusief de toegang tijdens de klassikale training.

Bij Global Knowledge ontvangt u tevens een examen voucher bij deze training.

Let op: Deze training wordt per 24 februari 2020 officieel vervangen door de training Implementing and Administering Cisco Solutions ( [CCNA](#) ). Deze nieuwe training is al te boeken bij Global Knowledge.

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#### English:

Our accelerated CCNA Bootcamp is an intensive program designed to teach learners how to install, operate, configure and verify a basic IPv4 and IPv6 network, including configuring a LAN switch, configuring an IP router, connecting to a WAN, and identifying basic security threats. Labs are core to understanding the concepts taught and students will have 120 hours of lab access accessible over a 180 day period ( This includes the time in class ) ensuring students are able to perform basic troubleshooting steps in an enterprise branch office network. This is an ideal course for students looking to achieve CCNA Routing and Switching Certification.

At Global Knowledge an exam voucher is included at this training.

**Be aware:** This training will be replaced officially from the 24th of February 2020 by the training Implementing and Administering Cisco Solutions ( [CCNA](#) ). You can already book this new training at Global Knowledge.

### Target Audience:

Pre-sales and post-sales network engineers involved in the installation and support of enterprise branch office networks.

### Objectives:

- After you complete this course you should be able to:
- Install, operate and troubleshoot a medium-sized network, including connecting to a WAN and implementing network security.
- Describe the effects of new technologies such as IoT, I WAN and SDN on network evolution.

### Prerequisites:

#### Nederlands:

Deelnemers moeten voldoen aan de volgende eisen:

- Basisvaardigheid in de navigatie door Windows en het werken met een toetsenbord
- Basisvaardigheid in internetgebruik
- Basiskennis van IP-adressering

Let op: Deze cursus is vooral bedoeld voor IT-professionals die reeds kennis hebben op het niveau van CCNA en die deze training willen gebruiken om hun certificering af te ronden. Ook voor IT-professionals die hun CCNA certificering willen verlengen is

### Testing and Certification

Recommended preparation for exam(s):

- 200-125 - CCNA Cisco Certified Network Associate Routing and Switching

deze training uitermate geschikt.

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English:

Attendees should meet the following prerequisites:

- Basic Windows navigation and keyboard literacy skills
- Basic Internet usage skills
- Basic IP addressing knowledge

P.S.: This course is intended for IT professionals who already have knowledge at CCNA level and who want to use this training to complete their certification. Also for IT professionals who want to extend their CCNA certification, this course is highly recommended.

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### Follow-on-Courses:

The following courses are recommended for further study:

- ROUTE - Implementing Cisco IP Routing
  - SWITCH - Implementing Cisco Switched Networks
  - TSHOOT - Troubleshooting and Maintaining Cisco IP Networks
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## Content:

### Building a Simple Network

- Exploring the Functions of Networking
- Understanding the Host-to-Host Communications Model
- Introducing LANs
- Operating Cisco IOS Software
- Starting a Switch
- Understanding Ethernet and Switch Operation
- Troubleshooting Common Switch Media Issues

### Establishing Internet Connectivity

- Understanding the TCP/IP Internet Layer
- Understanding IP Addressing and Subnets
- Understanding the TCP/IP Transport Layer
- Exploring the Functions of Routing
- Configuring a Cisco Router
- Exploring the Packet Delivery Process
- Enabling Static Routing
- Learnin Basics of ACL
- Enabling Internet Connectivity

### Implementing Scalabale Medium-Sized Networks

- Implementing and Troubleshooting VLANs and Trunks
- Building Redundant and Switched Topologies
- Improving Redundant Switched Topologies with EtherChannel
- Routing Between VLANs
- Using a Cisco IOS Network Device as a DHCP Servcer
- Understanding Layer 3 Redundancy
- Implementing RIPv2

### Introducing IPv6

- Introducing Basic IPv6
- Understanding IPv6 Operation
- Configuring IPv6 Static Routes

### Troubleshooting Basic Connectivity

- Troubleshooting IPv4 Network Connectivity
- Troubleshooting IPv6 Network Connectivity

### Implementing Network Device Security

- Securing Administrative Access
- Implementing Device Hardening
- Implementing Advance Security

### Implementing an EIGRP-Based Solution

- Implementing EIGRP
- Implementing EIGRP for IPv6
- Troubleshooting EIGRP

### Implementing a Scalable OSPF-Based Solution

- Understanding OSPF
- Multiarea OSPF IPv4 Implementation
- Implementing OSPFv3 for IPv6

### Implementing Wide Area Networks

- Understanding WAN Technologies
- Understanding Point-to-Point Protocols
- Configuring GRE Tunnels
- Configuring Single-Homed EBGp

### Network Device Management

- Implementing Basic Network Device Management
- Evolution of Intelligent Networks
- Introducing QoS
- Managing Cisco Devices
- Licensing

### Labs

- Discovery 1: Get Started with Cisco CLI
- Discovery 2: Perform Basic Switch Configuration
- Discovery 3: Observe How a Switch Operates
- Discovery 4: Troubleshoot Switch Media and Port Issues
- Discovery 5: Inspect TCP/IP Applications
- Discovery 6: Start with Cisco Router Configuration
- Discovery 7: Configure Cisco Discovery Protocol
- Discovery 8: Configure Default Gateway
- Discovery 9: Exploration of Packet Forwarding
- Discovery 10: Configure and Verify Static Routes
- Discovery 11: Configure and Verify ACLs
- Discovery 12: Configure a Provider-Assigned IP Address
- Discovery 13: Configure Static NAT
- Discovery 14: Configure Dynamic NAT and PAT
- Discovery 15: Troubleshoot NAT
- Challenge 1: Summary Challenge Lab: 1
- Challenge 2: Summary Challenge Lab: 2
- Discovery 16: Configure VLAN and Trunks
- Discovery 17: Troubleshoot VLANs and Trunks
- Discovery 18: Configure Root Bridge and Analyze STP Topology
- Discovery 19: Troubleshoot STP Issues
- Discovery 20: Configure and Verify EtherChannel
- Discovery 21: Configure a Router on a Stick
- Discovery 22: Configure a Cisco Router as a DHCP Server
- Discovery 23: Troubleshoot DHCP Issues
- Discovery 24: Configure and Verify HSRP
- Discovery 25: Troubleshoot HSRP
- Discovery 26: Configure and Verify RIPv2
- Discovery 27: Troubleshoot RIPv2
- Challenge 3: Implementing RIPv2
- Discovery 28: Configure Basic IPv6

## Connectivity

- Discovery 29: Configure IPv6 Static Routes
- Challenge 4: Implement IPv6 Static Routing
- Discovery 30: Use Troubleshooting Tools
- Discovery 31: Configure and Verify IPv4 Extended Access Lists
- Discovery 32: Troubleshoot IPv4 Network Connectivity
- Challenge 5: Troubleshooting IPv4 Connectivity
- Discovery 33: Configure and Verify IPv6 Extended Access Lists
- Discovery 34: Troubleshoot IPv6 Network Connectivity
- Challenge 6: Troubleshooting IPv6 Connectivity
- Discovery 35: Enhance Security of Initial Configuration
- Discovery 36: Limit Remote Access Connectivity
- Challenge 7: Securing Device Administrative Access
- Discovery 37: Configure and Verify Port Security
- Discovery 38: Configure and Verify NTP
- Challenge 8: Implementing Device Hardening
- Discovery 39: Configure External Authentication Using RADIUS and TACACS+
- Discovery 40: Configure and Verify EIGRP
- Discovery 41: Configure and Verify EIGRP for IPv6
- Discovery 42: Troubleshoot EIGRP
- Challenge 9: Troubleshooting EIGRP
- Challenge 10: Summary Challenge Lab: 3
- Challenge 11: Summary Challenge Lab: 4
- Discovery 43: Configure and Verify Single-Area OSPF
- Discovery 44: Configure and Verify Multiarea OSPF
- Discovery 45: Configure and Verify OSPFv3
- Discovery 46: Troubleshoot Multiarea OSPF
- Challenge 12: Troubleshooting OSPF
- Discovery 47: Configure Serial Interface and PPP
- Discovery 48: Configure and Verify MLP
- Discovery 49: Configure and Verify PPPoE Client
- Discovery 50: Configure and Verify GRE Tunnel
- Discovery 51: Configure and Verify Single Homed EBGP
- Challenge 13: Implementing Single-Homed EBGP
- Discovery 52: Configure Syslog
- Discovery 53: Configure SNMP
- Challenge 14: Summary Challenge Lab: 5
- Challenge 15: Summary Challenge Lab: 6

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## Additional Information:

### Recertification :

CCNA certifications are valid for three years. To recertify, pass ONE of the following before the certification expiration date: Pass the current ICND2 exam, or Pass the current CCNA exam, or Pass the current CCDA DESGN exam, or Pass any current CCNA Concentration exam (Data Center, Wireless, Security, Voice, Video, Service Provider, or Service Provider Operations), or Pass any current 642-XXX Professional-level exam, or Pass any current Cisco Specialist exam (excluding Sales Specialist exams or MeetingPlace Specialist exams, Implementing Cisco TelePresence Installations (ITI) exams, Cisco Leading Virtual Classroom Instruction exams, or any 650 online exams), or Pass any current CCIE Written Exam, or Pass the current CCDE Written Exam OR current CCDE Practical Exam, or Pass the Cisco Certified Architect (CCAr) interview AND the CCAr board review to extend lower certifications

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## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)