

Interconnecting Cisco Networking Devices - Part 2 (CCNA)

Duration: 5 Days Course Code: ICND2 Version: 2.0

Overview:

Nederlands:

Deze cursus biedt netwerkbeheerders op basisniveau en ondersteunend netwerk- en helpdeskpersoneel de kennis en vaardigheden aan die nodig zijn voor het installeren en beheren van een klein bedrijfsnetwerk, inclusief probleemoplossing. ICND2 v2.0 richt zich op inzicht in redundante topologieën, probleemoplossing bij vaak voorkomende netwerkproblemen, configuratie van EIGRP en meervoudige OSPF binnen zowel IPv4 en IPv6, inzicht in WAN-technologieën en vertrouwdheid met apparaatbeheer en Cisco-licenties. Deze versie van ICND2 bevat meer labs en scenario's voor probleemoplossingen.

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English:

This course provides entry-level network administrators, network support, and help desk technicians with the knowledge and skills needed to install, configure, operate, and troubleshoot a small enterprise network. ICND2 v2.0 focuses on understanding redundant topologies, troubleshooting common networking issues, configuring EIGRP and multi-area OSPF in both IPv4 and IPv6, understanding WAN technologies, and becoming familiar with device management and Cisco licensing. There are more labs and troubleshooting scenarios included in this version of ICND2.

Target Audience:

Nederlands:

De cursus is bedoeld voor iedereen die het CCNA Routing and Switching-certificaat wil halen, en voor pre- en post-sales-engineers die betrokken zijn bij de installatie en ondersteuning van bedrijfsnetwerken in nevenvestigingen.

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English:

The course is intended for individuals seeking the CCNA Routing and Switching certification and for pre and post sales engineers involved in the installation and support of enterprise branch office networks.

Objectives:

Nederlands:

- Aan het einde van deze cursus bent u bekend met het volgende:
- Het beheer van een middelgroot LAN met meerdere switches, ondersteunende VLAN's, trunking en een spanning tree
- Het oplossen van IP-verbindingsproblemen
- Het configureren en oplossen van problemen met EIGRP in een IPv4-omgeving en het configureren van EIGRP voor IPv6
- Het configureren en oplossen van problemen met OSPF in een IPv4-omgeving en het configureren van OSPF voor IPv6
- De eigenschappen, functies en onderdelen van een WAN
- SNMP, syslog en NetFlow, en het beheer van Cisco-apparaatconfiguraties, Cisco IOS-images en licenties

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English:

- After you complete this course you should be able to:
- Operate a medium-sized LAN with multiple switches, supporting VLANs, trunking, and spanning tree
- Troubleshoot IP connectivity
- Configure and troubleshoot EIGRP in an IPv4 environment, and configure EIGRP for IPv6
- Configure and troubleshoot OSPF in an IPv4 environment, and configure OSPF for IPv6
- Define characteristics, functions, and components of a WAN
- Describe SNMP, syslog, and NetFlow, and manage Cisco device configurations, Cisco IOS images, and licenses

Prerequisites:

Nederlands:

Deelnemers moeten voldoen aan de volgende eisen:

Testing and Certification

Nederlands:

Aanbevolen voorbereiding op examen(s):

Basiskennis van netwerken hebben en in staat zijn om:

- LAN's te implementeren
- een internetverbinding te implementeren
- de beveiliging van netwerkapparaten te beheren
- een WAN-verbinding te implementeren
- basis-IPv6-verbindingen te implementeren

Aan al deze voorwaarden kan worden voldaan door deelname aan ICND1. v2.0

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English:

Attendees should meet the following prerequisites;

Understand network fundamentals and be able to :

- Implement local area networks
 - Implement Internet connectivity
 - Manage network device security
 - Implement WAN connectivity
 - Implement basic IPv6 connectivity
- All of these requirements can be met by attending ICND1. v2.0

■ 200-101 - ICND2
OR

■ 200-120 - CCNA - dit is een gecombineerd examen met vragen over ICND1 en ICND2

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English:

Recommended preparation for exam (s):

■ 200-101 - ICND2
OR

■ 200-120 - CCNA - This is a composite exam and will include questions on both ICND1 and ICND2 content.

Follow-on-Courses:

Nederlands:

De volgende cursussen worden aanbevolen als vervolgcursus:

- ROUTE - Implementing Cisco IP Routing
- SWITCH - Implementing Cisco Switched Networks

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English:

The following courses are recommended for further study :

- ROUTE - Implementing Cisco IP Routing
- SWITCH - Implementing Cisco Switched Networks

Content:

Implementing Scalable Medium-Sized Networks

- Troubleshooting VLAN Connectivity
- Building Redundant Switched Topologies
- Improving Redundant Switched Topologies with EtherChannel
- Understanding Layer 3 Redundancy

Troubleshooting Basic Connectivity

- Troubleshooting IPv4 Network Connectivity
- Troubleshooting IPv6 Network Connectivity

Implementing an EIGRP-Based Solution

- Implementing EIGRP
- Troubleshooting EIGRP
- Implementing EIGRP for IPv6

Implementing a Scalable, Multiarea Network, OSPF Based Solution

- OSPF Overview
- Multiarea OSPF IPv4 Implementation
- Troubleshooting Multiarea OSPF
- Examining OSPFv3

Wide-Area Networks

- Understanding WAN Technologies
- Configuring Serial Encapsulation
- Establishing a WAN Connection Using Frame Relay
- Introducing VPN Solutions
- Configuring GRE Tunnels

Network Device Management

- Configuring Network Devices to Support Network Management Protocols
- Managing Cisco Devices
- Licensing

Labs

- Lab S-1: Review
- Lab 1-1: Troubleshooting VLANs and Trunks
- Lab 1-2: Optimizing STP
- Lab 1-3: Configuring EtherChannel
- Lab 2-1: Troubleshooting IP Connectivity
- Lab 3-1: Implementing EIGRP
- Lab 3-2: Troubleshooting EIGRP
- Lab 3-3: Implementing EIGRP for IPv6
- Lab 4-1: Configuring Multiarea OSPF
- Lab 4-2: Troubleshooting Multiarea OSPF
- Lab 4-3: Configuring OSPF for IPv6
- Lab 5-1: Configuring and Troubleshooting a Serial Connection
- Lab 5-2: Establishing a Frame Relay WAN
- Lab 5-3: Establishing a GRE Tunnel
- Lab 6-1: SNMP and Syslog Basic Configuration
- Lab 6-2: Analyzing NetFlow Data
- Lab 6-3: Managing Cisco Devices and Licensing
- Lab S-2: ICND2 Superlab

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 or Composite Exam or Pass any current CCNA Concentration exam (Data Center, Wireless, Security, Voice, Video, Service Provider, or Service Provider Operations or DESGN), 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 (ITL) 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

Cisco Xtra

Cisco Xtra by Global Knowledge is a selection of additional information to help you get the most out of your training. These supporting materials are offered online and in line with the demand for new teaching techniques and feedback from customers and consists eg whitepapers, industry experts, and video tutorials. With Cisco Xtra you will optimize your chances - before, during or after the course. When you book the ICND2 course you will receive access to the Cisco Xtra materials.

Further Information:

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

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