

Course : Cisco CCNA, part 1, the basics

Practical course - 5d - 35h00 - Ref. CCK

Price : 3600 CHF E.T.

★★★★☆ 4,6 / 5

BEST

This training course will enable you to acquire all the knowledge you need (technical and methodological) to prepare and follow the training course "Cisco CCNA, part 2, implementation and administration of Cisco solutions, certification preparation" (ref. CCD) and pass its 200-301 exam.

Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understand the mechanisms involved in network communications
- ✓ Building simple LAN networks
- ✓ Configure Cisco switches for a simple LAN set-up

Intended audience

Systems and network technicians and administrators.

Prerequisites

Basic knowledge of information systems management.

Certification

This course is the exclusive property of ORSYS. Although part of a CISCO CCNA certification curriculum, its content does not constitute an endorsement by CISCO. ORSYS has designed this course, in conjunction with the Cisco CCNA, Part 2, Implementing and administering Cisco solutions, certification preparation course (ref. CCD), to facilitate the anchoring of the topics covered by CCNA.

Practical details

Teaching methods

Balanced alternation of presentations, simulator workshops and real-life situations in conditions similar to those on the exam.

Course schedule

PARTICIPANTS

Systems and network technicians and administrators.

PREREQUISITES

Basic knowledge of information systems management.

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

1 Network concepts

- Different networks, classification of different network types.
- The OSI reference model.
- TCP/IP, LANs.

2 Creating a simple network

- Explore network functions.
- Host-to-host communications model.
- Introduction to LANs.
- How Cisco IOS works.
- Function and use of the command line interface (CLI).
- Start a switch.
- Ethernet protocol and switch operation.
- Troubleshoot media-related switching problems.

Hands-on work

Implement a network. Use IOS, switch. Check network operation. Use command line interface (CLI).

3 Establishing internal connectivity

- TCP/IP Internet layer.
- IP addressing and subnets.
- TCP/IP transport layer.
- Explore routing functions.
- Configure a Cisco router.
- Explore the package delivery process.
- Configure static routing.
- Manage traffic with access lists. Configure Internet access.

Hands-on work

Configure routing. Manage traffic. Configure a Cisco router. Configure static routing.

4 Creation of a medium-sized network

- Introducing the spanning tree.
- Implement VLANs and trunks.
- Inter-VLAN routing.
- Use a Cisco network device as a DHCP server.
- Overview of dynamic routing protocols.
- Overview of WAN technologies.

Hands-on work

Implement VLANs and Trunks. Use a Cisco network device as a DHCP server.

5 Security management for network devices

- Secure administrative access.
- Implement "device hardening".
- Configure system message logging.
- Manage Cisco devices.

Hands-on work

Configure system message logging.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

6 Introduction to IPv6

- Introduction to the basics of IPv6.
- Understand how IPv6 works.
- Configure IPv6 static routes.

Dates and locations

REMOTE CLASS

2026 : 18 May, 14 Sep., 16 Nov.