



Implementing and Administering Cisco Solutions

Exam-ID: **200-301 CCNA**

Seminar-ID: **CCNA**

Your key takeaways

In diesem Training lernen Sie, ein einaches IPv4- und IPv6-Netzwerk zu installieren, zu betreiben, zu konfigurieren und zu überprüfen, Netzwerkkomponenten wie Switches, Router und WLAN-Controller (Wireless Local Area Network) zu konfigurieren, Netzwerkgeräte zu verwalten und grundlegende Sicherheitsbedrohungen zu erkennen.

Dieses Training behandelt auch die Einführung von KI und maschinellem Lernen (ML) im Netzwerkbetrieb.

Nach Abschluss des Trainings haben die Teilnehmer*innen Kenntnisse zu folgenden Themen:

- Identify the components of a computer network and describe their basic characteristics
- Understand the model of host-to-host communication
- Describe the features and functions of the Cisco IOS Software
- Describe LANs and the role of switches within LANs
- Describe Ethernet as the network access layer of transmission control protocol and the internet protocol (TCP/IP) and describe the operation of switches
- Install a switch and perform the initial configuration
- Describe the TCP/IP internet layer, IPv4, its addressing scheme, and subnetting
- Describe the TCP/IP transport layer and application layer
- Explore the functions of routing
- Implement basic configuration on a Cisco router

Any questions?

 + 43 1 533 1777

 info@flane.at

 Modecenterstraße 22/Office 4, 1030 Wien



- Explain host-to-host communications across switches and routers
- Identify and resolve common switched network issues and common problems associated with IPv4 addressing
- Describe IPv6 main features, addresses and configure and verify basic IPv6 connectivity
- Describe the operation, benefits, and limitations of static routing
- Describe, implement and verify virtual local area networks (VLANs) and trunks
- Describe the application and configuration of inter-VLAN routing
- Explain the basics of dynamic routing protocols and describe components and terms of open shortest path first (OSPF)
- Explain how spanning tree protocol (STP) and rapid spanning tree protocol (RSTP) work
- Configure link aggregation using EtherChannel
- Describe the purpose of Layer 3 redundancy protocols
- Describe basic wide-area network (WAN) and virtual private network (VPN) concepts
- Describe the operation of access control lists (ACLs) and their applications in the network
- Configure internet access using dynamic host configuration protocol (DHCP) clients and explain and configure network address translation (NAT) on Cisco routers
- Describe the basic quality of service (QoS) concepts
- Describe the concepts of wireless networks, which types of wireless networks can be built and how to use WLC
- Describe network and device architectures and introduce virtualization
- Explain software-defined networks
- Configure basic Cisco IOS system monitoring tools
- Describe the management of Cisco devices
- Describe the current security threat landscape
- Describe threat defense technologies
- Implement a basic security configuration of the device management plane
- Implement basic steps to harden network devices



- Discuss the need of network programmability in Enterprise networks, common programmability protocols, and configuration management tools
- Describe AI and ML in network operations

Target Groups

- Einsteiger-Netzwerktechniker*innen
- Netzwerkadministrator*innen
- Netzwerk-Support-Techniker*innen
- Help Desk Techniker*innen

Prior knowledge

- Grundlegende Computerkenntnisse
- Grundlegende Navigationsfähigkeiten für PC-Betriebssysteme
- Grundlegende Fähigkeiten zur Internetnutzung
- Grundkenntnisse über IP-Adressen, wie sie im Seminar Netzwerk-Grundlagen und TCP/IP Networking vermittelt werden.

Important information

Dieses Training bereitet Sie auf die Prüfung Cisco Certified Network Associate (200-301 CCNA) vor, die zur neuen Zertifizierung CCNA Cisco Certified Network Associate führt. Die Prüfung ist NICHT im Preis inkludiert.

Alternative Lernformate:

- Coached Learning (Selbststudium + Coaching)



Dates & Options

Date	Duration	City	Offer	Price
13.01.2025-17.01.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-
13.01.2025-17.01.2025	5 days	Wien	Preis (Online)	€3.150,-
17.02.2025-21.02.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-
17.02.2025-21.02.2025	5 days	Wien	Preis (Online)	€3.150,-
31.03.2025-04.04.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-
31.03.2025-04.04.2025	5 days	Wien	Preis (Online)	€3.150,-
12.05.2025-16.05.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-
12.05.2025-16.05.2025	5 days	Wien	Preis (Online)	€3.150,-
23.06.2025-27.06.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-
23.06.2025-27.06.2025	5 days	Wien	Preis (Online)	€3.150,-
04.08.2025-08.08.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-
04.08.2025-08.08.2025	5 days	Wien	Preis (Online)	€3.150,-
15.09.2025-19.09.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-
15.09.2025-19.09.2025	5 days	Wien	Preis (Online)	€3.150,-
27.10.2025-31.10.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-
27.10.2025-31.10.2025	5 days	Wien	Preis (Online)	€3.150,-
01.12.2025-05.12.2025	5 days	Wien	Preis (Vor Ort)	€3.150,-

Any questions?

+ 43 1 533 1777

info@flane.at

Modecenterstraße 22/Office 4, 1030 Wien



Date	Duration	City	Offer	Price
01.12.2025-05.12.2025	5 days	Wien	Preis (Online)	€3.150,-

Any questions?

 + 43 1 533 1777

 info@flane.at

 Modecenterstraße 22/Office 4, 1030 Wien