CCNA PowerCamp
Implementing and Administering Cisco Solutions

The PowerCamp is based on the original content of the CCNA course from Cisco, which is supplemented by more in-depth information and exercises. In addition, the content of the associated 3-day e-learning course is taught by an experienced trainer, which in the classic version must be learned through self-study.

The participants learn how to install, operate, configure and verify basic IPv4 and IPv6 networks. The course covers the configuration of network components such as switches, routers and wireless LAN controllers, the basics of network management and how to recognize basic security threats. This training also covers the introduction of AI and Machine Learning (ML) in network operations.

Course Contents
• 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
• 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

The virtual lab is available to the participants for 90 days from the start of the respective event for a total of 60 hours.

With a pass guarantee: We are convinced that you are guaranteed to pass the exam after this training. That's why we offer you the opportunity to retake the exam once free of charge if required.

E-Book You will receive the original course documentation from Cisco in English language as a Cisco E-Book.

Target Group
This course is designed for those seeking comprehensive preparation for CCNA certification under the guidance of experienced instructors. The course provides foundational knowledge for all support technicians involved in the basic installation, operation and monitoring of Cisco networks.

The job roles that best fit the instructional material used in this course are:

• Entry-level Network Engineer
• Network Administrator
• Network Support Technician
• Helpdesk Technician

Prerequisites
• Basic computer skills
• Basic knowledge of the PC operating system for system navigation
• Basic knowledge of internet usage
• Basic IP address knowledge

There are no formal prerequisites for CCNA certification - but you should make sure that you have a good understanding of the exam topics. And you will gain this understanding in this PowerCamp!

Status 05/01/2025

This Course in the Web

Reservation
On our Website, you can reserve a course seat for 7 days free of charge and in an non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates
To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!
We can precisely customize this course to your project and the corresponding requirements.

Training		Prices, excl. of V.A.T.
Classes in Germany	**10 Days**	**€ 4,195**
Online Training	**10 Days**	**€ 4,195**
Date/course venue	Course language German 🇩🇪	

07/07-18/07/25	Frankfurt	01/09-12/09/25	Online
07/07-18/07/25	Online	17/11-28/11/25	Frankfurt
01/09-12/09/25	Frankfurt	17/11-28/11/25	Online

CCNA PowerCamp

Enterprise Networking, IoT & Design

ExperTeach

Our Training Offer for You:

Classroom Training
The live training experience in our training centers or on your premises on-site.

Online Training
Attend your course in online mode – without travel and accommodation expenses and effort.

Hybrid Training
Classroom & online in one course – choose how you wish to participate in your training event.

In-house Training
We create your customized training concepts for your project.

Guaranteed Course Dates
ExperTeach guaranteed course dates allow for secure and reliable planning.

Awards Won by ExperTeach