

Course syllabus

CATEGORY

Computer network,
CISCO courses

TRAINING FORMAT

In Bratislava or online
with a lecturer

PRICE EXCL. VAT

650,00 €

PRICE INCL. VAT

799,50 €

including 23 % VAT

Cisco CCNA I - Introduction to Computer Networks

Clear overview of course topics, training scope and key information.

The Cisco CCNA I - Introduction to Computer Networks training is intended for people interested in computer networks and for their future administrators. A graduate of the Cisco CCNA I - Introduction to Computer Networks course will gain general knowledge of how the Internet and networks in a corporate environment work. In addition to acquiring the necessary theory, they will also gain practical skills in designing and operating computer networks, as well as solving common technical problems.

COURSE CONTENT

01

General View of the World of Current Computer Networks - the Global Internet Network and Options for Connecting to the Internet

02

Division and Characteristics of Computer Networks by Type, Specification of Used Transmission Media and Protocols

Local Area Network (LAN) Metropolitan Area Network (MAN) Wide Area Network (WAN) Virtual Private Network (VPN)

03

ISO OSI and TCP/IP Models

04

Active Network Elements - Basic Building Blocks of Computer Networks and Description of Their Operation

hub - hub bridge - bridge switch - switch router - router

05

Data Link Layer Protocols of ISO OSI in Theory

Ethernet Fast Ethernet Gigabit Ethernet

06

Network Layer Protocols of ISO OSI in Theory and Practice

Internet Protocol (IP) Internet Control Message Protocol (ICMP)

07

Transport Layer Protocols of ISO OSI in Theory and Practice

Transmission Control Protocol (TCP) User Datagram Protocol (UDP)

08

Application Layer Protocols of ISO OSI in Theory and Practice

Hypertext Transfer Protocol (HTTP) Hypertext Transfer Protocol Secure (HTTPS) Domain Name System (DNS) Address Resolution Protocol (ARP) Dynamic Host Configuration Protocol (DHCP) File Transfer Protocol (FTP) Secure Shell (SSH)

09

Conversion Between Number Systems - Binary and Decimal

10

Addressing in the IPv4 Protocol (Subnetting and VLSM)

11

Design of a Small Computer Network - Practical Tips and Tricks for Designing Your Own Network

This document serves as an informational overview of the course syllabus. Current dates, venue and availability are listed at Macrosoft.sk.

<https://www.macrosoft.sk/en/courses/cisco-ccna-introduction-to-computer-networks>