

CCNA Exploration

Course Description:

The Cisco CCNA® Exploration curriculum provides a comprehensive overview of networking; from fundamentals to advanced applications and services. It is based on a top-down approach to networking that is popular in many colleges and universities. This course emphasizes theoretical concepts and practical application, while providing opportunities for students to gain the skills and hands-on experience needed to design, install, operate, and maintain networks in small-to-medium businesses, as well as enterprise and service provider environments.

CCNA Exploration offers in-depth theory, challenging labs, and a detailed overview of protocol operations. It is designed for students with advanced problem-solving and analytical skills, such as degree candidates in engineering, math, or science, or for working professionals who would like to advance their careers or gain certification. CCNA Exploration was designed to be integrated into technology curricula or continuing education programs at postsecondary institutions such as technical schools, colleges, and universities.

The CCNA Exploration curriculum is composed of four courses:

- [Network Fundamentals](#)
- [Routing Protocols and Concepts](#)
- [LAN Switching and Wireless](#)
- [Accessing the WAN](#)

Network Fundamentals is the first course and it has no prerequisites. It is a prerequisite for the other three courses. Routing Protocols and Concepts is the preferred second course in the sequence.

Packet Tracer

The curriculum encourages students to explore networking concepts with tools such as Packet Tracer, a powerful network simulation program developed by Cisco that allows students to experiment with network behavior and ask “what if” questions.

Industry Standard Certification

The CCNA Exploration curriculum prepares students for the Cisco CCNA® network associate certification exam. CCNA is the industry standard, foundational certification for networking careers. Students need to complete all four courses of CCNA Exploration to fully prepare for the CCNA exam.

Skills and Competencies

Here are some examples of the skills students will be able to perform after completing each course:

Network Fundamentals	Routing Protocols and Concepts
Use network protocol models to explain the layers of communications in data networks	Configure and verify router interfaces

Design, calculate, and apply subnet masks and addresses	Demonstrate comprehensive RIPv1 configuration skills
Build a simple Ethernet network using routers and switches	Design and implement a classless IP addressing scheme for a network
Employ basic cabling and network designs to connect devices	Use advanced configuration commands with routers implementing EIGRP
Use Cisco CLI commands to perform basic router and switch configuration and verification	Apply the basic RIPv2 configuration commands and evaluate RIPv2 classless routing updates
Analyze the operations and feature of the transport and network layer protocols and services	Identify the characteristics of distance vector routing protocols
LAN Switching and Wireless	Accessing the WAN
Troubleshoot common network problems at Layers 1, 2, 3, and 7 using a layered model approach	Describe the impact of applications (Voice Over IP and Video Over IP) on a network
Interpret network diagrams	Configure, verify, and troubleshoot DHCP and DNS operation on a router
Perform and verify initial switch configuration tasks including remote access management	Verify, monitor, and troubleshoot ACLs in a network environment
Configure, verify, and troubleshoot VLANs, interVLAN routing, VTP, trunking on Cisco switches, and RSTP operation	Configure and verify a basic WAN serial connection, a PPP connection between
Manage IOS configuration files	Cisco routers, and Frame Relay
Identify the basic parameters to configure a wireless network and common implementation issues	Configure and verify a PPP connection between Cisco routers, and Frame Relay on Cisco routers

Training Duration:

Each of the CCNA Exploration Courses consists of 70 hours, usually delivered three (3) times a week on sessions of (2) hours.

Training Cost:

AUK Training and Development Institute offers different prices for morning and evening courses. Note that only CCNA Discovery has 10% discount, if offered as a package.

CCNA Exploration	Course Price - Morning	Course Price - Evening
Network Fundamentals	€ 255.00	€ 295.00
Routing Protocols and Concepts	€ 255.00	€ 295.00
LAN Switching and Wireless	€ 265.00	€ 310.00
Accessing the WAN	€ 265.00	€ 310.00
Total:	€ 1,040.00	€ 1,210.00

*Day price is for classes from 09:00 – 17:00 hrs