Cisco CCNA - Instructor
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Sehr geehrte Damen und Herren,

die Fachhochschule Kaiserslautern, Standort Zweibrücken bietet für alle Studentinnen und Studenten, Cisco CCNA Exploration Kurse an.

Zur Zeit sind dieses : Kurs 1 → CCNA Exploration „Network Fundamentals"
Kurs 2 → CCNA Exploartion „Routing Protocols and Concepts".

Beide Kurse enden mit einer Online - Abschlußprüfung sowie einer praktischen Prüfung.

Zur Dokumentation erhält jeder Absolvent ein Zertifikat über die Kursteilnahme.

Diese Zertifikate sind von Seiten der Industrie sehr willkommen und wirken sich somit positiv in Ihrer Biografie (Bewerbungen) aus.

Sollte ich Ihr Interesse geweckt haben, können Sie mich unter den u.a. Kontaktadressen für weitere Fragen oder Auskünfte erreichen.

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Mit freundlichen Grüßen
Stefan Konrath

CISCO™

Networking
Academy

Cisco | Networking Academy®
Mind Wide Open™

CCNA Exploration

Opportunity

We live in an increasingly connected world, creating a global economy and a growing need for technical skills. Cisco Networking Academy delivers information technology skills to over 500,000 students a year in more than 165 countries worldwide. Networking Academy students have the opportunity to participate in a powerful and consistent learning experience that is supported by high quality, online curricula and assessments, instructor training, hands-on labs, and classroom interaction. This experience ensures the same level of qualifications and skills regardless of where in the world a student is located.

Networking Academy students will become the architects of the networked economy; enabling everyday experiences on the global human network. With the ever-increasing demand for their skills, Networking Academy students have the chance to dream about business-critical positions never before imagined, in industries ranging from medicine and finance to entertainment and aerospace. Networking Academy opens doors to rewarding careers and opportunities for economic advancement and local community development. Students only need to be 'Mind Wide Open' to the possibilities.

Solution

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.

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 helps students prepare for successful IT careers in small-to-medium businesses, as well as enterprise and service provider environments.

CCNA Exploration can be integrated into technology curricula or continuing education programs at postsecondary institutions such as technical schools, colleges, and universities.

Features

CCNA Exploration courses include embedded e-doing, which enables students to complete interactive activities that stimulate learning and improve knowledge retention. E-doing involves rich multimedia, including Flash-based activities, videos, and interactive quizzes, that address a variety of learning styles, increase comprehension, and provide a rich learning experience.

All CCNA Exploration courses include complex and challenging hands-on labs to help students develop critical thinking, problem solving, and collaboration skills, as well as practical knowledge.

Course Description

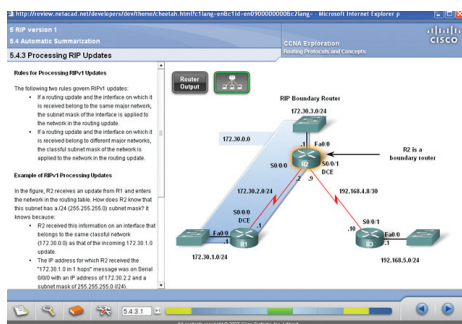The CCNA Exploration curriculum is composed of four courses:

· 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.

CCNA Exploration integrates related engineering concepts and provides students with the skills needed to succeed in networking-related degree programs. The curriculum allows students to learn skills in a comprehensive, theoretical, and practical way that is reflective of common educational practices at the college level. It offers flexibility in curriculum delivery and permits shortened course delivery time. CCNA Exploration also provides an introduction to advanced technologies such as voice, video, wireless, and security.

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 Cisco routers, and Frame Relay
Manage IOS configuration files	Configure and verify a PPP connection between Cisco routers, and Frame Relay on Cisco routers
Identify the basic parameters to configure a wireless network and common implementation issues	Troubleshoot WAN implementation issues

For more information

Cisco Networking Academy Program
www.cisco.com/go/netacad

Course Catalog
www.cisco.com/edu/courses

Locate a Networking Academy
www.cisco.com/edu/locate

Certifications
www.cisco.com/go/certifications

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at **www.cisco.com/go/offices.**

Open Doors to Life-Enhancing Opportunities

Networking Academy courses cover a range of topics to help students succeed based on their interests and goals:

- **IT Essentials:** This introduction to PC hardware, software, and network operating systems prepares students for CompTIA A+, EUCIP ICT Administrator, and CompTIA Server+ certifications and entry-level ICT support careers.
- **CCNA Discovery:** This curriculum teaches networking based on application, covering concepts based on the types of practical networks students may encounter from home and small offices, to more complex enterprise models. Students learn the basics of routing, switching, and advanced technologies to prepare for Cisco CCENT™ and Cisco CCNA® certifications and entry-level networking careers.
- **CCNA Exploration:** This curriculum teaches networking based on technology, covering protocols and theory at deeper levels reflective of university practices. Students learn the basics of routing, switching, and advanced technologies to prepare for the CCNA certification and entry-level networking careers.
- **CCNP:** This curriculum teaches the advanced skills required to manage end-to-end converged network infrastructures and prepares students for the Cisco CCNP® certification and enterprise networking careers.
- **Advanced Technologies:** These courses focus on topics such as security, wireless, and voice to prepare students for specialized certifications and careers.

CISCO™

Becoming the Architects of the Networked Economy.

Cisco Networking Academy
Mind Wide Open™

"Networking Academy has given me the skills to embark on a new career path and hope for unlimited potential in the future!"

Sarah Strickling
Networking Academy Student

Cisco | Networking Academy®
Mind Wide Open™

Learn more about Cisco Networking Academy:
http://www.cisco.com/go/netacad

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Wanted: Tech-Savvy Workers

Internet services enable individuals around the world to perform many common activities, such as the following:

- Instant messaging and e-mail
- Learning and research
- Downloading music and video files
- Blogging and social networking
- E-commerce

These capabilities are all powered by networks, and companies in virtually every industry need skilled workers to design, install, and manage these networks.

Organizations around the world are experiencing a shortage of qualified information and communication technology (ICT) candidates to fill a growing number of positions.

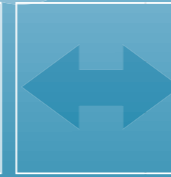# Choosing a Path Towards a Professional Career in ICT

Meet Juan. He is 16 and is looking for a cool career after he graduates.

Margaret is 22 and struggling to improve her family's quality of life.

Jamal has a business degree and wants to expand his business management opportunities.

Eric is planning to change careers.

His path

Her path

Her path

His path

His path

Ismini is 19 and pursuing a degree in Engineering.

Meet David. He wants to be more specialized in the ICT field.

Cool Career
Attending secondary school and wants a job that pays well after graduation — 1

Cool Career
Interested in technology — 2

Cool Career
Takes CCNA Discovery courses — 3

Academic Fast Track
Has advanced problem solving and analytical skills — 2

Academic Fast Track
First year university student enrolled in engineering program — 1

A Better Life
Single mom with two small children — 1

A Better Life
No job but wants to be financially secure — 2

Cool Career
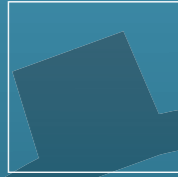Learns routing and switching basics and career soft skills — 4

Cool Career
Earns college course credit if he chooses to go to college in the future — 5

Cool Career
Earns CCENT certification after graduation — 6

Academic Fast Track
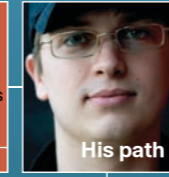Sees technology as a path to career opportunities — 3

A Better Life
Believes an ICT career would provide unlimited future possibilities — 3

Destination
Entry-level Network Support Technician in a gaming company

Surgeon of Commerce

Academic Fast Track
Takes CCNA Exploration courses integrated into the engineering curriculum — 4

Expanding Opportunities
Wants to apply his strategic planning skills to the ICT industry — 1

A Better Life
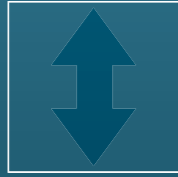Completes IT Essentials courses — 4

A Better Life
Acquires entry-level PC administration and support skills through a local community program — 5

Destination
Help Desk Technician for a consumer electronics retailer

Air Traffic Controller of Finance

Academic Fast Track
Assists senior network technicians at a software company during a summer internship — 5

Network Specialist
Learned general PC and network support skills while working for a software company — 1

Expanding Opportunities
Believes a lack of technical knowledge is limiting his career advancement — 2

Expanding Opportunities
Takes CCNA Discovery courses at a local two-year college — 3

Expanding Opportunities
Learns basics of routing, switching, and advanced technologies — 4

Expanding Opportunities
Attends a local job fair — 5

Destination
Business Development professional for a Telecom company

Carpenter of Enterprise

Academic Fast Track
Earns a degree in engineering and CCNA certification — 6

Network Specialist
Recognizes the importance of network security — 2
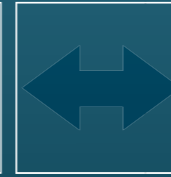
Mid-Career Change
Bored with his manufacturing job after 18 years in the industry — 1
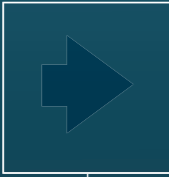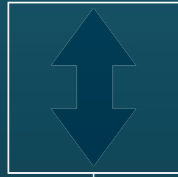
Mid-Career Change
Looking for a rewarding and challenging professional career in the ICT field — 2

Mid-Career Change
Enrolls in CCNA Exploration and CCNP night courses at a university — 3

Destination
Network Engineer at an online brokerage firm

Tailor of Discovery

Network Specialist
Wants to learn more for a higher salary and more professional career opportunities — 3

Mid-Career Change
Learns how to manage end-to-end converged network infrastructures — 4

Mid-Career Change
Earns CCNA and CCNP certifications and joins online networking forums — 5

Destination
Systems Network Administrator for a regional healthcare provider

Astronomer of Communication

Destination
Information Security Analyst for a large aerospace manufacturer

Lifeguard of the internet

Network Specialist
Completes CCNA and networking security courses at a technical institute — 4

To learn more about the Cisco Networking Academy visit: **http://www.cisco.com/go/netacad**

Become an Architect of the Networked Economy

Cisco® Networking Academy® enables individuals to develop valuable ICT skills that will help them succeed in the global economy. Academies are located in secondary schools, 2 year colleges and technical schools, colleges, universities, and community organizations in more than 160 countries. Students receive the same quality of education globally, through e-learning curricula, labs, and online assessments that are designed to prepare them for internationally-recognized certifications and successful careers in a variety of industries.

Preparation for 21st Century Careers

The Internet is changing life as we know it; bringing new opportunities to communities throughout the world and providing a platform for life experiences on the human network.

Cisco Networking Academy enables students to pursue the educational and career goals that will help them to become the architects of these experiences.

More than 2 million students from approximately 160 countries have participated in this innovative educational program.

Join us with a 'Mind Wide Open' to new possibilities.