LUXEMBOURG LIFELONG
LEARNING CENTRE
LA FORMATION CONTINUE DE LA CHAMBRE DES SALARIÉS

CHAMBRE DES SALARIÉS
LUXEMBOURG

TOMORROW STARTS HERE

TRAINING CATALOG

CISCO

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Cisco Networking Academy platform

Prepare the workforce
of the future

Instructor-led blended learning program
to train employees for the jobs of today
and tomorrow

Networking

Gain hands-on, relevant networking skills

Cybersecurity

Learn to secure and defend networks

Linux OS

Essential skills for the digital world

Practice

Interactive tools and experiences build mastery, not just knowledge

The 3 training paths

➢ Networking (CCNA)
➢ Linus Operating System
➢ Cybersecurity

Networking

CCNA: Introduction to Networking (ITN)

70h

Course Overview

The **first course** in the CCNA curriculum introduces the architectures, models, protocols, and networking elements that connect users, devices, applications and data through the Internet and across modern computer networks - including IP addressing and Ethernet fundamentals.

Benefits

✓ Learn to build simple local area networks (LAN) that integrate IP addressing schemes, foundational network security

✓ Perform basic configurations for routers and switches

Prepare for Careers

✓ Develop skills for entry-level networking jobs

✓ Prepare for CCNA certification exam

✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

Target Audience: Anyone with basic computer knowledge who wants to learn about the concept, configuration and maintenance of networks

Estimated Time to Completion: 70 h

Prerequisites: None

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
✓ 17 modules and 24 hands-on labs
✓ 31 Cisco Packet Tracer activities
✓ 120+ interactive activities, videos, & quizzes
✓ 1 final exam

Recommended Next Course:
CCNA: Switching, Routing, and Wireless Essentials (SRWE)

Course Recognitions:

➢ Certificate of Completion, Letter of Merit, Digital Badge issued by Cisco

➢ Certificate of completion and statement of attendance issued by LLLC

CCNA: Switching, Routing, and Wireless Essentials (SRWE)

70h

Course Overview

The **second course** in the CCNA curriculum focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLAN) and security concepts.

Benefits

- ✓ Learn key switching and routing concepts
- ✓ Learn the basics of network configuration and troubleshooting
- ✓ Learn how to identify and mitigate Local Area Network (LAN) security threats, as well as configure and secure a basic WLAN

Prepare for Careers

- ✓ Develop skills for entry-level networking jobs
- ✓ Prepare for CCNA certification exam
- ✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

Target Audience: Anyone who wants to start using computer network concepts, configuration and maintenance

Estimated Time to Completion: 70 h

Prerequisites: Completion of the "CCNA Introduction to Networking" course or an equivalent course, or the successful completion of the IT Essentials test

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
- ✓ 16 modules and 14 hands-on labs
- ✓ 31 Cisco Packet Tracer activities
- ✓ 70+ interactive activities, videos, & quizzes
- ✓ 1 final exam

Recommended Next Course:
CCNA: Enterprise Networking, Security, and Automation (ENSA)

Course Recognitions:

- ➢ Certificate of Completion, Letter of Merit, Digital Badge issued by Cisco
- ➢ Certificate of completion and statement of attendance issued by LLLC

CCNA: Enterprise Networking, Security, and Automation (ENSA)

70h

Course Overview

The **final course** in the CCNA series covers the architecture, security, and operation of an enterprise network, along with introducing the new ways in which network engineers interact with programmable infrastructure.

Benefits

- ✓ Learn how to configure and troubleshoot enterprise networks
- ✓ Learn to identify and protect against cybersecurity threats
- ✓ And discover key concepts of software-defined networking, including controller-based architectures and application programming interfaces (APIs)

Prepare for Careers

- ✓ Develop skills for entry-level networking jobs
- ✓ Prepare for CCNA certification exam
- ✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

Target Audience: Anyone who wants to learn more about the concepts, configuration and maintenance of computer networks

Estimated Time to Completion: 70 h

Prerequisites: Completion of the "CCNA: Switching, Routing, and Wireless Essentials (SRWE)" course or an equivalent course, or the successful completion of the IT Essentials test

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
- ✓ 14 modules and 12 hands-on labs
- ✓ 29 Cisco Packet Tracer activities
- ✓ 100+ interactive activities, videos, & quizzes
- ✓ 1 practice certification exam

Course Recognitions:

- ➢ Certificate of Completion, Letter of Merit, Digital Badge issued by Cisco

- ➢ Certificate of completion and statement of attendance issued by LLLC

Certification Aligned:
- ➢ Cisco Certified Networking Associate

Linux
Operating System

NDG Linux Unhatched

Course Overview

This course covers introductory back-end operating system knowledge by teaching basic installation and configuration of Linux and introducing the Linux command line.

Benefits

✓ Easily acquire Linux knowledge without having to commit to more than 8 hours of learning in total, by being guided step-by-step through a series of hands-on virtual machine activities

Explore Opportunities in Technology

✓ Develop your basic digital knowledge of Linux

✓ Begin to explore the many career possibilities these skills can open up for you

Course Details

Target Audience: Anyone wishing to learn about Linux

Estimated Time to Completion: 8 h

Prerequisites: None

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
✓ 1 module
✓ 20 pages
✓ Built-in Linux machine with activities
✓ 1 assessment

Recommended Next Course:
NDG Linux Essentials

Course Recognitions:

➢ Letter of completion issued by Cisco

➢ Certificate of completion and statement of attendance issued by LLLC

NDG Linux Essentials

LINUX OS

Course Overview

This course teaches fundamentals of the Linux operating system, command line, and open source programming concepts.

Benefits

Nearly every IT job requires some Linux knowledge.

✓ Gain hands-on practice with Linux commands through the Linux virtual machine embedded in the course

Explore Opportunities in Technology

✓ Develop fundamental operating system skills for entry-level IT jobs

✓ Prepare for LPI certificate exam

✓ Fulfill prerequisites to pursue more specialized IT and networking skills

Course Details

Target Audience: Anyone who wants to know the basics of Linux system administration

Estimated Time to Completion: 70 h

Prerequisites: None

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
✓ 16 chapters and 13 hands-on labs
✓ Built-in virtual machine to experiment with Linux commands
✓ Learner-directed activities
✓ Chapter, midterm, and final exams

Recommended Next Course:
NDG Linux I

Course Recognitions:

➢ Letter of completion issued by Cisco

➢ Certificate of completion and statement of attendance issued by LLLC

Certification Aligned:
➢ Linux Professional Institute (LPI) Linux Essentials Professional Development Certificate

NDG Linux I & II

Course Overview

A 2-course series for aspiring Linux system administrators. Covers performing maintenance tasks on the command line, installing and configuring a computer running Linux, and configuring basic networking, using virtual machines running Linux.

Benefits

More rigorous and comprehensive than NDG Linux Essentials, this course develops your Linux mastery.

✓ Gain hands-on practice with Linux commands through the Linux virtual machine embedded in the course

Explore Opportunities in Technology

✓ Develop skills for careers in cloud computing, cybersecurity, information systems, networking, programming, software development, big data, and more
✓ Prepare for LPIC-1 certification exams

Course Details

Target Audience: Anyone who already has the basics of the Linux system and wants to improve their skills in this Linux operating system

Estimated Time to Completion: 140 h

Prerequisites: Completion of the "NDG Linux Essentials" course or an equivalent course, or the successful completion of a test to validate the skills required to take this course

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
✓ Built-in virtual machine to experiment with Linux commands
✓ Hands-on labs and activities
✓ Chapter, midterm, and final exams

Course Recognitions:

➢ Letter of completion issued by Cisco

➢ Certificate of completion and statement of attendance issued by LLLC

Certification Aligned:
➢ Linux Professional Institute LPIC-1

Cybersecurity

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Introduction to Cybersecurity

Cybersecurity

Course Overview

This course explores cyber trends, threats, and staying safe in cyberspace, and protecting personal and company data.

Benefits

Today's interconnected world makes everyone more susceptible to cyber-attacks.

✓ Learn how to protect your personal data and privacy online and in social media, and why more and more IT jobs require cybersecurity awareness and understanding

Explore Opportunities in Technology

✓ Explore the world of cybersecurity and how it relates to YOU

✓ Develop your cybersecurity basics for a secure and safe digital life

✓ Start exploring the many career possibilities these skills can open up for you

Course Details

Target Audience: Anyone willing to learn about the world of Internet security and who want to be literate in the field or for any professional responsible for security and privacy of company or customer systems

Estimated Time to Completion: 15 h

Prerequisites: None

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
✓ 5 modules and 7 hands-on labs
✓ Interactive activities & quizzes
✓ 1 final exam

Recommended Next Course:
Cybersecurity Essentials

Course Recognitions:

➢ Certificate of Completion, Digital Badge issued by Cisco

➢ Certificate of completion and statement of attendance issued by LLLC

Cybersecurity Essentials

Cybersecurity

Course Overview

This course covers essential knowledge for all cybersecurity domains including information security, systems security, network security, ethics and laws, and defense and mitigation techniques used in protecting businesses.

Benefits

The demand for security professionals continues to grow.

✓ Develop a foundational understanding of cybercrime, security principles, technologies, and procedures used to defend networks

Explore Opportunities in Technology

✓ Build your cybersecurity foundation
✓ Take the next step in exploring the many career possibilities in cybersecurity
✓ See if you want to pursue job roles in networking or cybersecurity

Course Details

Target Audience: Anyone interested in learning about cybercrime, security principles, technologies and procedures used to defend networks or for any professional responsible for the security and privacy of a company or client's systems

Estimated Time to Completion: 30 h

Prerequisites: Completion of the "Introduction to Cyber Security" course or an equivalent course, or the successful completion of a test to validate the skills required to take this course

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
✓ 8 chapters and 12 hands-on labs
✓ 10 Cisco Packet Tracer activities
✓ 40+ interactive activities & quizzes
✓ 1 final exam

Recommended Next Course:
CyberOps Associate

Course Recognitions:

➢ Certificate of Completion, Digital Badge issued by Cisco

➢ Certificate of completion and statement of attendance issued by LLLC

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CyberOps Associate

Cybersecurity

Course Overview

This course introduces the core security concepts and skills needed to monitor, detect, analyze, and respond to cybercrime, cyberespionage, insider threats, advanced persistent threats, regulatory requirements, and other cybersecurity issues facing organizations.

Benefits

✓ Gain practical, hands-on skills needed to maintain and ensure security operational readiness of secure networked systems

Explore Opportunities in Technology

✓ Develop skills for entry-level security operations center (SOC) jobs
✓ Prepare for CyberOps Associate certification
✓ Pursue a career in cybersecurity operations, a rapidly-growing, exciting new area that spans all industries

Course Details

Target Audience: Anyone interested in a career in a security operations center or for any professional responsible for the security and privacy of a company or client's systems

Estimated Time to Completion: 70 h

Prerequisites: Completion of the "Cybersecurity Essentials" course or an equivalent course, or the successful completion of a test to validate the skills required to take this course

Course Delivery: Taught by an instructor in a blended learning format

Learning Component Highlights:
✓ 28 chapters and 46+ hands-on labs
✓ 6 Cisco Packet Tracer activities
✓ 113 interactive activities, videos, & quizzes
✓ 1 practice certification exam

Course Recognitions:

➢ Certificate of Completion, Letter of Merit, Digital Badge issued by Cisco

➢ Certificate of completion and statement of attendance issued by LLLC

Certification Aligned:
➢ Cisco Certified CyberOps Associate

Practice

Hands-on tools & interactive experiences to build skills, not just knowledge

Hands-On Practice

A key pillar of Networking Academy

Motivate your students with exciting experiences that make learning very real

Accelerate and optimize each student's path to career-ready skills
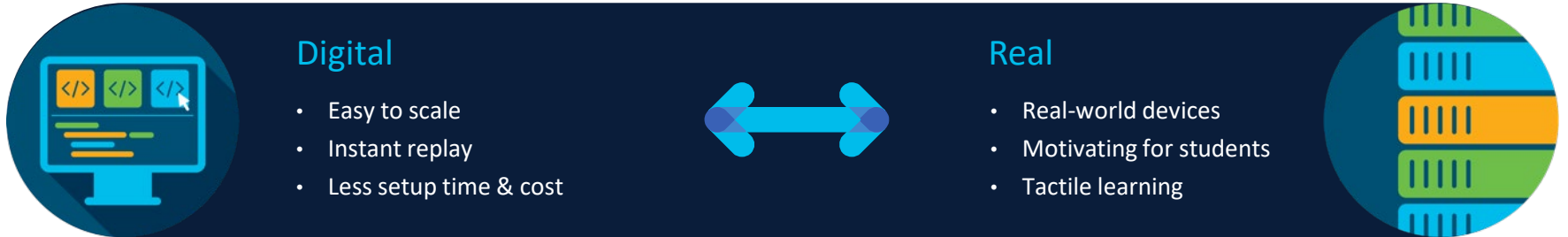
Build student confidence: "I can do this!"

Developed by learning scientists & subject-matter experts

A Suite of Lab Environments

Options ranging from simulation to physical hardware

Digital
- Easy to scale
- Instant replay
- Less setup time & cost

Real
- Real-world devices
- Motivating for students
- Tactile learning

Simulation with Packet Tracer

Virtualized Equipment

Virtual Machines

Prototyping Lab

Remote Equipment

Physical Hardware

Packet Tracer

Overview
Cisco Packet Tracer is a powerful simulation and visualization learning environment. Practice building simple and complex networks across a variety of devices and extend beyond routers and switches.

Benefits
Teach complex concepts without complex hardware. Leverage the versatility of simulation for lectures, labs, games, homework, assessments, and competitions.

Build Skills for Success
- ✓ Quickly try, experiment, learn, repeat
- ✓ Practice teamwork, critical thinking and creative problem solving skills
- ✓ Integration with online assessment engine prepares students for hands-on assessments

Details

Use it to:
- Visualize networks using everyday examples
- Build your own simulated networks
- Investigate and troubleshoot network functionality using simulation mode
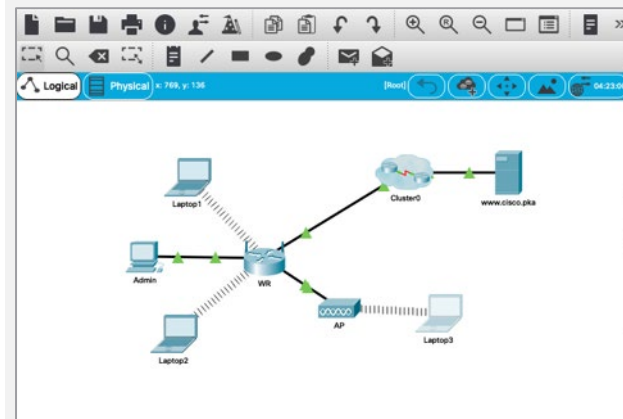- Practice configuring network and IoT devices

How to Access:
Enroll in Intro to Packet Tracer course to download desktop version

Courses that use Packet Tracer include:
- CCNA
- CyberOps Associate

Hands-on tools & interactive experiences to build skills, not just knowledge

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Virtual Machines (VM)

Overview

Virtual machines are virtual environments that emulate a computer system. These self-contained virtual environments let students explore systems to the breaking point without causing actual damage.

Benefits

Experiment and explore in a low-risk environment. Deliberately test security threats and malware in a safe environment.

Build Skills for Success

✓ Hands-on cybersecurity practice

✓ Students become familiar with virtual machines to prepare for on-the-job skills
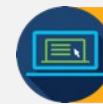
Details

Use it to:
- Teach virtual machine technology
- Simulate real-world cybersecurity threat scenarios
- Create opportunities for ethical hacking, security monitoring, analysis, and resolution
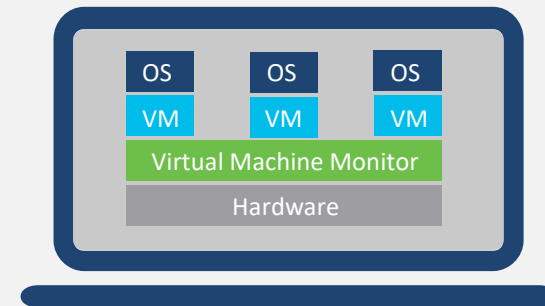
How to Access:
Free software download from Oracle VirtualBox
https://www.oracle.com/virtualization/technologies/vm/downloads/virtualbox-downloads.html

Courses that use Virtual Machines include:
- CCNA
- CyberOps Associate

OS	OS	OS
VM	VM	VM
Virtual Machine Monitor		
Hardware		

Hands-on tools & interactive experiences to build skills,
not just knowledge

Remote Equipment: NDG NETLAB+

Overview

Connect to real hardware through the web. Available through Networking Academy partnerships:

NDG NETLAB+ provides cloud-based, remote access to networking equipment and PCs.

Benefits

Reduce your setup time for complex labs with on-demand remote access to lab equipment
when you need it.

Build Skills for Success

✓ Provide practice opportunities for students to complete labs from anywhere

✓ Supplement your lab offerings when physical hardware is not available at your institution

Details

Use it to:
- Access remote IT equipment through a web browser
- Reduce your lab setup time

How to Access:
Learn more at the NDG NETLAB+ page for Networking Academy.
https://www.netdevgroup.com/content/cnap/

Courses that use Remote Equipment include:
- CCNA
- CyberOps Associate

In partnership with

NDG   NETLAB+

CCNA Cyber Ops   IT Essentials   CCNA Routing And Switching

Hands-on tools & interactive experiences to build skills,
not just knowledge

Physical Hardware

Overview

Bring the real world inside the classroom so students can practice physical, sensory skills. Seeing and exploring with real equipment
makes the abstract more tangible.

Benefits

Excite learners to consider career pathways in networking technology, and increase retention through tactile learning.

Build Skills for Success

✓ Provide hands-on practice with the same devices found in the work environment

✓ Students gain real experience
even before on-the-job training

✓ Build transferable, career-ready skills

Details

Courses that use Physical Hardware include:
- CCNA

Hands-on tools & interactive experiences to build skills,
not just knowledge

Quick Links

- Networking Academy Website - netacad.com

- Networking Academy Program Overview

- Helpful Program Resources, including NetAcad Program FAQ

- Course Demos (available for select courses)

- Employment Opportunities (Talent Bridge)

- Remote Teaching & Learning - Tools and Tips