Cisco Networking Academy

NetAcad is a global learning program delivered through a network of partnerships with government agencies, social benefit organizations, and 9000 academies in schools, universities, community centers, and prisons.

Courses are delivered through a cloud-based collaboration platform with an emphasis on hands-on learning and career prep for a growing number of networking technology jobs in the Internet of Everything.

Program delivery is supported by hundreds of Academy Support Centers and Instructor Training Centers.

NetAcad courses reach 1 million students each year.
5 million students have completed courses since 1997.

What Is Cisco Networking Academy?

Courses developed by Cisco and partners
- ICT and networking expertise
- Delivered through global network of partnerships

Students gain critical skills:
- Technical
- Entrepreneurship
- 21st century career skills

Students attend courses at:
- Grade schools
- Colleges and universities
- Community centers and prisons

Students prepare for:
- Entry-level careers
- Technical certifications
- Entrepreneurship
- Further education

The World's Largest Classroom

Countries	Instructors worldwide
170	**20,000**

Students worldwide	Online exams taken
5 Million	**100 Million**

Academies worldwide	Course languages
9000	**19**

Addressing the IT Skills Gap - US

93% of U.S. employers report a gap between current and desired skills of IT staff

Globally, IT Skills Gap Is Growing Faster Than Supply

Millions

5

4

3

2

1

0

2012   2013   2014   2015

1.21 Million

2.75 Million

■ Supply ■ Gap

CompTIA.
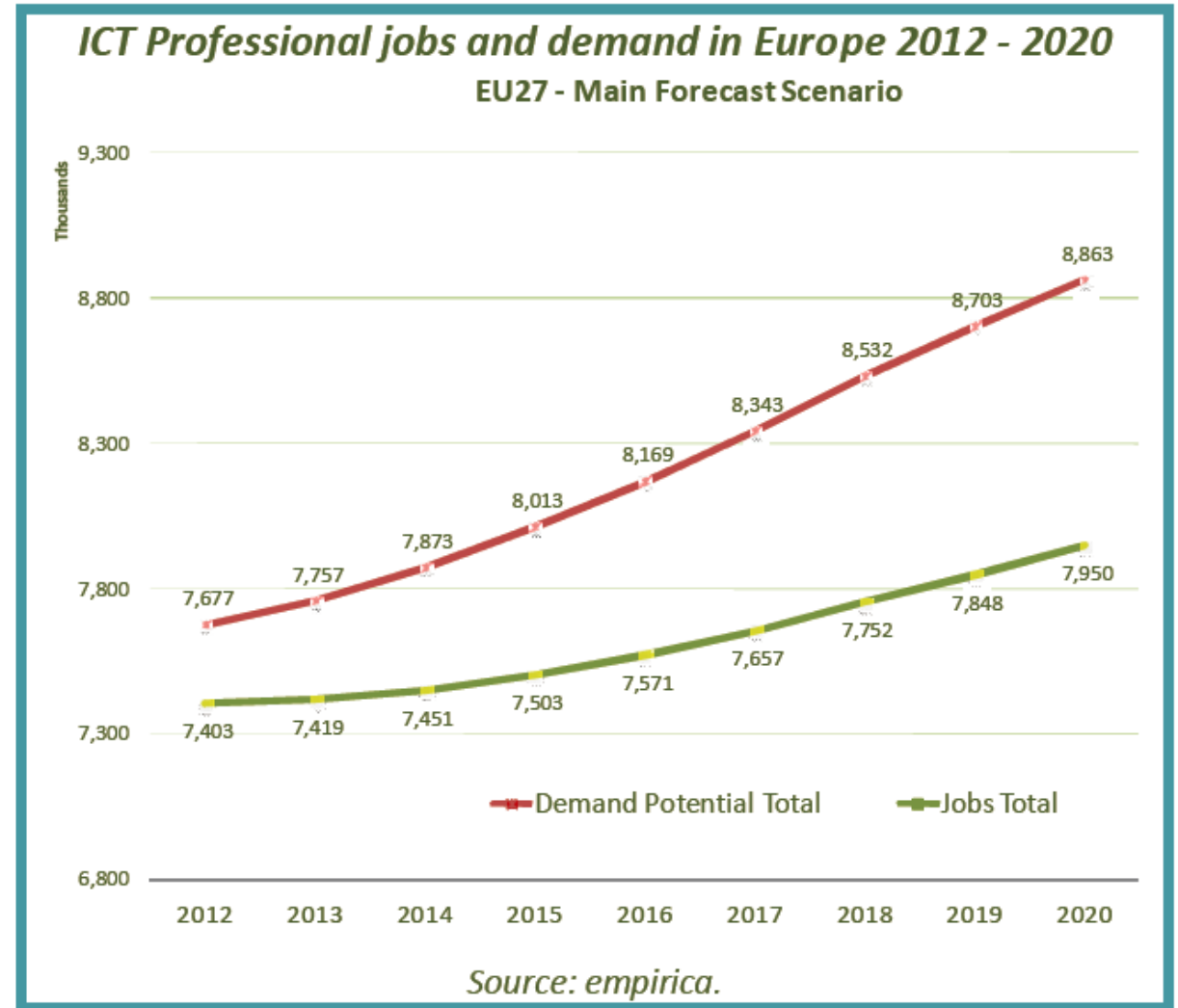
IDC
Analyze the Future
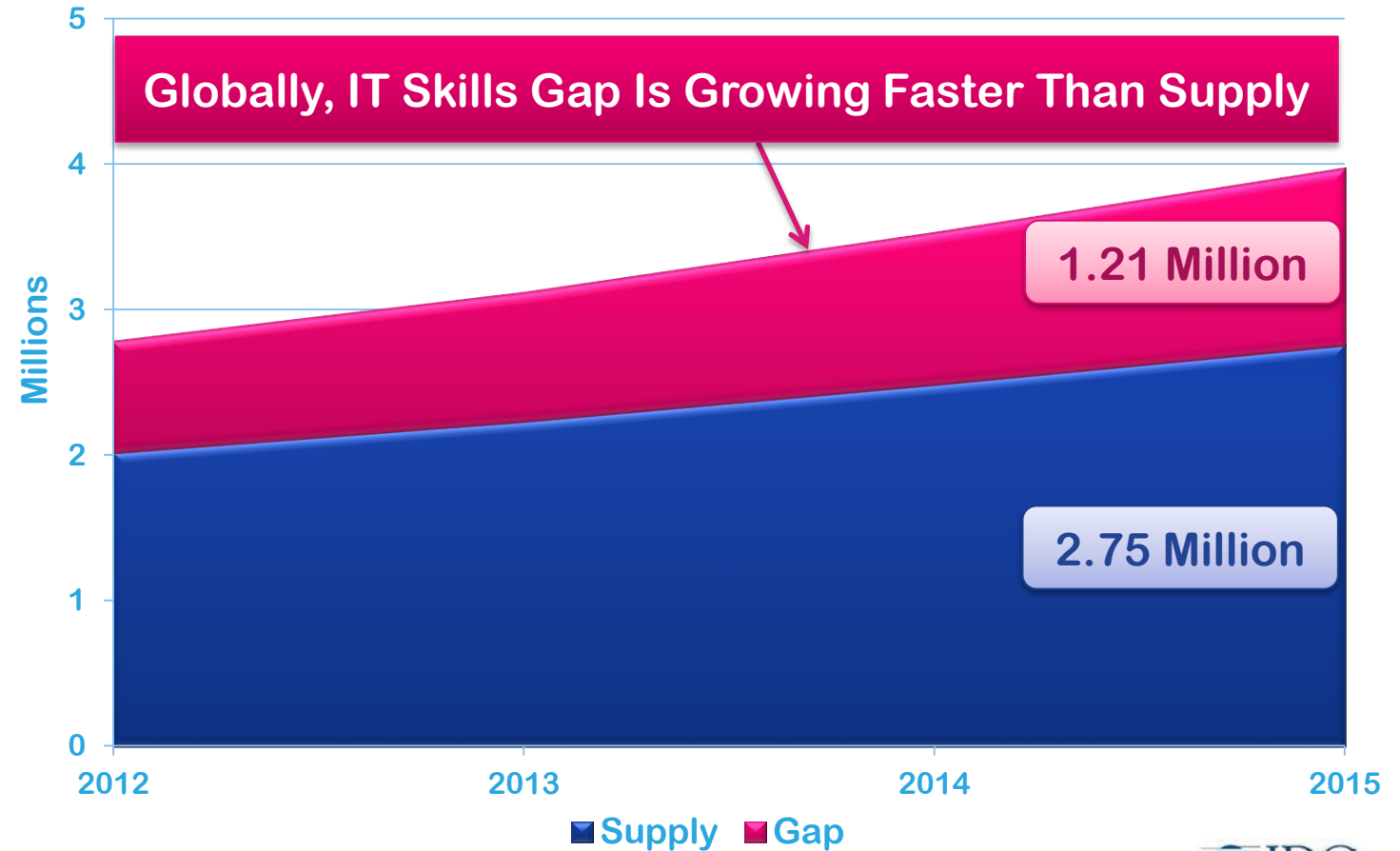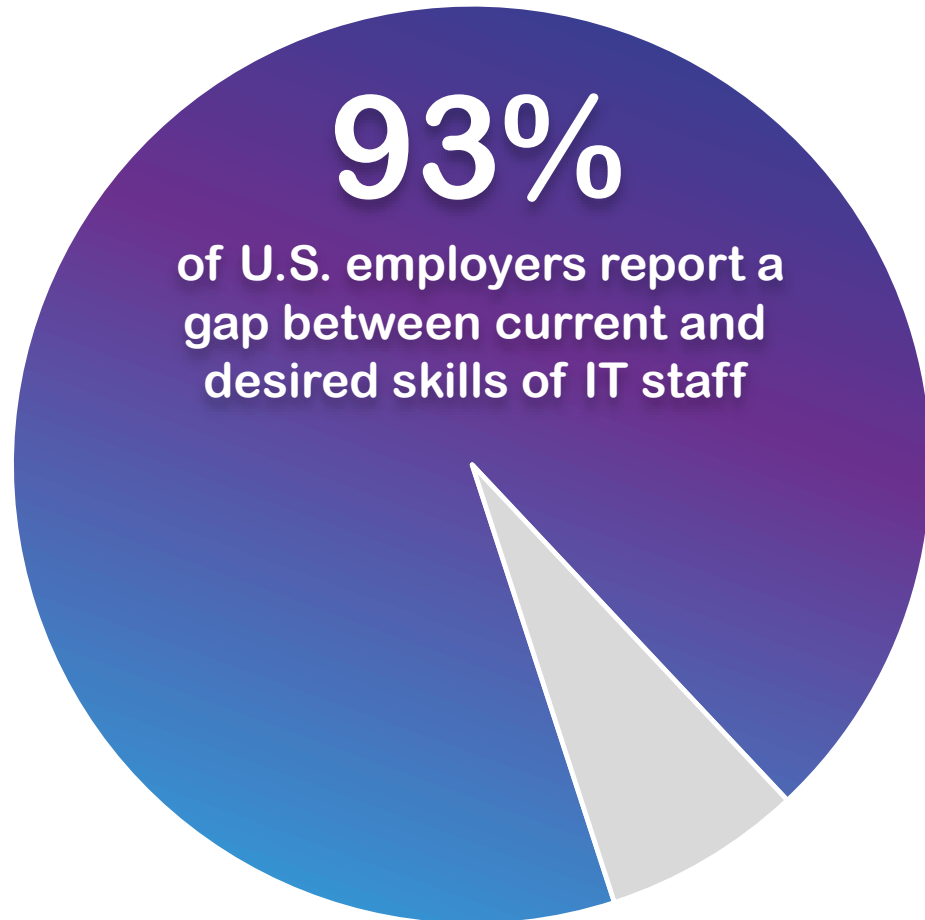
Addressing the IT Skills Gap - Europe

Andrus Ansip,
Vice-President, European Commission

"Europeans need the right skills to get the most from the digital economy and single market. Let's get people online as much as possible. It is not just about reading and writing any more. These days, in order to succeed and take off in a career, you need digital skills as a basic. There are many young people who use the internet on a daily basis but do not have the full skills needed to convert this interest into an actual job. For some years, the European Commission has been working to reverse this trend, by encouraging young people to take up ICT-related careers, and particularly women, who are very under-represented at all levels in the ICT sector in Europe."

ICT Professional jobs and demand in Europe 2012 - 2020
EU27 - Main Forecast Scenario

Demand Potential Total: 7,677 — 7,757 — 7,873 — 8,013 — 8,169 — 8,343 — 8,532 — 8,703 — 8,863

Jobs Total: 7,403 — 7,419 — 7,451 — 7,503 — 7,571 — 7,657 — 7,752 — 7,848 — 7,950

Source: empirica.

Source:empirica 2014

Cisco Networking Academy Program Impact

With the IT and career skills developed in Cisco Networking Academy courses, students like Veng Kanha earn 5 times the average salary in Cambodia.

Cisco Networking Academy Program Impact

"NetAcad meant I got real networking knowledge and experience so I could take on an apprenticeship job while still at the university.

This greatly improved my technical skills and made me a competent candidate in a job market dominated by men."

Aleksandra Kaczmarek
Support Engineer, Cisco, Poland

Empowerment programs like Nina Weza at the African Women in ICT (AWICT) center in Kenya equip students with the skills and experience needed to succeed.

"I had a job two weeks after completing my internship."

Janet Adhiambo Otieno
Customer Service Agent for Zuku and BPO Exec for Tech Brain BPO, Kenya

To help overcome barriers to employment in the tech field for women in Sri Lanka, Kalhari Kaluarachchi, a Cisco Social Innovation Group program manager, launched Women Rock IT; a Cisco TV series featuring insights and advice from successful women in IT.

Women Rocking IT in AsiaPac

The Cisco MYTecC (Mediterranean Youth Technology Club) initiative brings together youth from the Middle East and Africa.

Students bridge cultural divides during each weeklong training program as they develop technical, leadership, business, video editing, and teamwork skills.
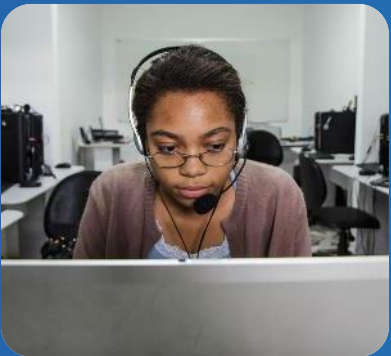
Watch MYTecC Video

Course Delivery

Instructor Led

Courses that are opened and taught by an instructor, in a face-to-face classroom setting, a blended classroom and distance-learning environment, or remotely.

Self Paced

Online, self-enroll courses that students complete at their own pace, at any point in their career journey, sometimes within a set time frame.

Self-paced offerings include podcasts.

Who Develops Courses?

CISCO

Instructor-led and self-paced courses offered in partnership with schools and organizations around the world.

Topics include routing and switching, network configurations, and network security

Community

Learning materials developed by NetAcad instructors in partnership with Cisco.

Community developed courses can be accessed by instructors who want to expose students to essential technology concepts like cloud and collaboration.

Partners

Courses developed by partner organizations and offered to NetAcad students to help broaden their skills and improve career prospects.

Corporate Affairs Learning Portfolio

Networking & Technology

OS & IT

- Get Connected
- IT Essentials (PT)
- NDG Linux Essentials
- NDG Introduction to Linux I
- NDG Introduction to Linux II

Networking

- CCNA Routing & Switching (1-4) (PT)
- CCNP Routing & Switching (1-3)

Security

- Intro to Cybersecurity
- CCNA Security (PT)

Technology

- Voice Primer
- Cloud Primer
- Collaboration Primer
- Mobility Fundamentals Series (PT)

Packet Tracer

- Cisco Packet Tracer (PT)
- Packet Tracer Know How (PT)
- PT Mobile Android
- PT Mobile iOS

Internet of Everything

- Intro to IoE Summary Podcast
- Intro to the Internet of Everything (PT)
- Smart Grid (German)

Entrepreneurship

- Entrepreneurship
- Be Your Own Boss

Legend:
- Cisco Developed Course
- Community Developed Content
- Partner Developed Course
- Cisco Software
- Self-Enroll Option
- Podcast
- Certification Alignment
- Linux Certificate
- PT Packet Tracer Activities

Corporate Affairs Learning Portfolio (Future)

Nov 2015

Networking & Technology

OS & IT

Get Connected

IT Essentials **PT**

NDG Linux Essentials

NDG Introduction to Linux I

NDG Introduction to Linux II

Networking

CCNA Routing & Switching (1-4) **PT**

CCNP Routing & Switching (1-3)

Networking Fundamentals **PT**

Security

Intro to Cybersecurity

CCNA Security **PT**

Technology

Voice Primer **PT**

Cloud Primer

Collaboration Primer

Mobility Fundamentals Series **PT**

Packet Tracer

Cisco Packet Tracer (PT)

Packet Tracer Know How **PT**

PT Mobile Android

PT Mobile iOS

Internet of Everything

Intro IoE Summary Podcast

Introduction to the Internet of Everything **PT**

Smart Grid (German)

IoE: Connecting Data

IoE: Connecting People & Process

IoE: Connecting Things

Entrepreneurship

Entrepreneurship

Be Your Own Boss

Operating Systems & Information Technology

Why OS & IT?

A basic understanding of computer operating systems and information technologies provides the foundational knowledge needed for students to connect to the Internet and understand how systems and processes work together to power the Internet of Everything.

In partnership with NDG, we offer several courses on Linux, which is increasingly regarded as an essential platform for application development. These courses teach the skills needed to fill a growing number of jobs in the information and communication technology (ICT) field.

Career Prep

Courses range from Internet connectivity and social networking basics to teaching the skills needed to gain career certifications as a support technician, system administrator, network technician, or Linux professional.

Get Connected

IT Essentials

NDG Linux Essentials

NDG Introduction to Linux I

NDG Introduction to Linux II

Get Connected

Course Overview

Get Connected teaches the basic information technology skills needed to compete in the global workforce, with a focus on basic communication and collaboration technologies.

Students are introduced to the Internet and experiment with various social networking sites.

Prerequisites: None

Languages: English, Spanish, Portuguese-BR

Course Delivery: Instructor led or self paced

Estimated Time to Complete: 30 hours

Recommended Next Course: IT Essentials

Career Prep

Non-IT students specifically, and anyone seeking to develop basic ICT and social networking skills, which are essential for career advancement.
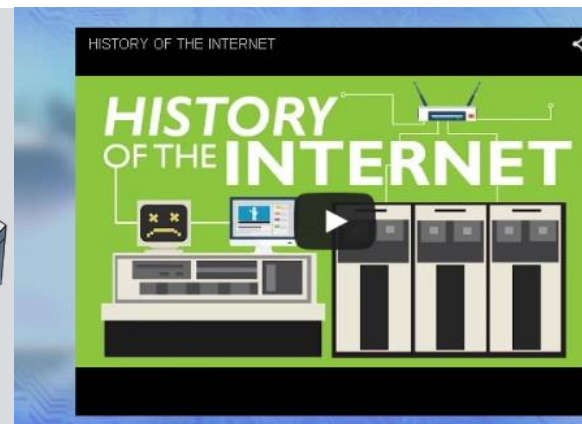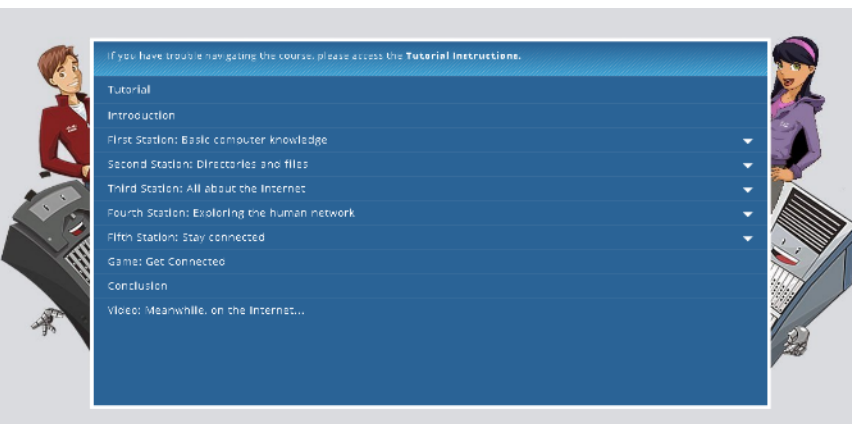
Learning Components

- 5 chapters
- Illustrations and narrations guide students through topics
- Videos and activities
- Quizzes

IT Essentials

Course Overview

IT Essentials covers the fundamentals of computer hardware and software and introduces advanced security and networking concepts.

Students learn how to assemble computers and troubleshoot hardware and software issues.

Prerequisites: None

Languages: Arabic, Chinese-S, Chinese-T, Croatian, English, French, German, Hebrew, Hungarian, Italian, Japanese, Portuguese-Brazilian, Romanian, Russian, Spanish, Turkish, Ukrainian

Course Delivery: Instructor led

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA R&S Intro to Networks

Career Prep

Upper secondary and junior college students seeking career-oriented, entry-level hardware and software skills to prepare for technical support roles. Aligns with the CompTIA A+ certification for IT support technicians, administrators, and specialists.
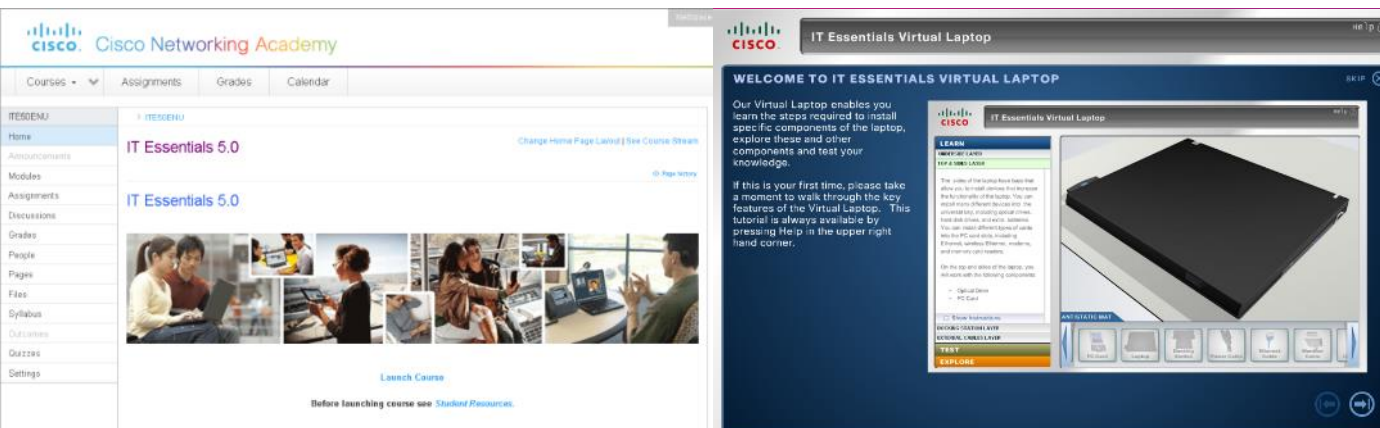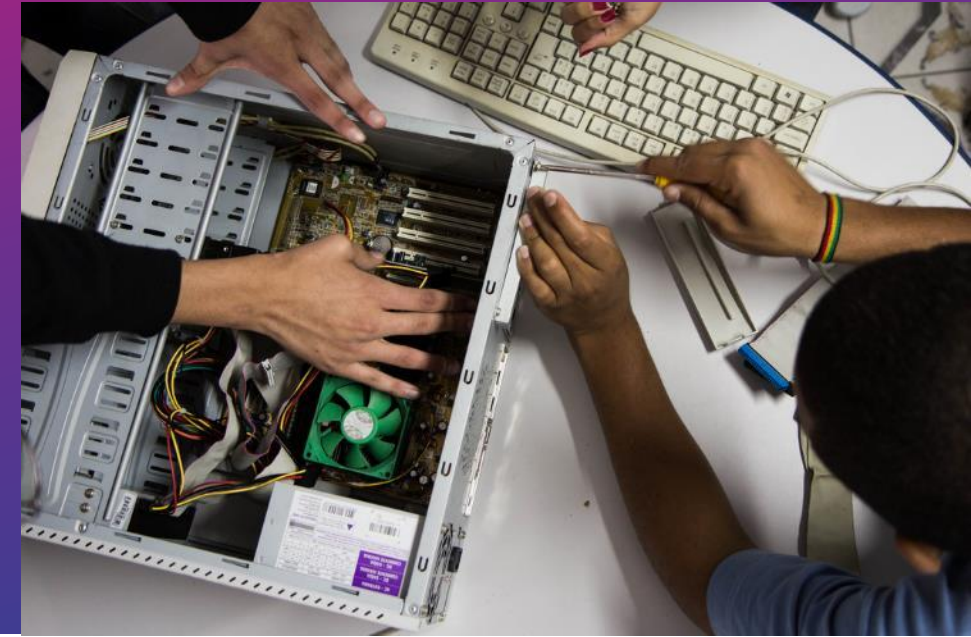
Learning Components

- 12 chapters
- 180 hands-on labs and learning activities
- Cisco Packet Tracer, virtual laptop, and virtual desktop learning tools
- 12 chapter exams, 1 checkpoint exam, 1 skills review exam, 1 practice final exam, 1 final exam, 1 skills-based assessment, and 2 practice exams for CompTIA A+ certification

NDG Linux Essentials

Course Overview

The Linux Essentials course, developed by NetAcad partner NDG, teaches students the fundamentals of the Linux operating system and command line and open source concepts.

The Linux virtual machine is embedded in the course; allowing students to experiment with Linux commands.

Career Prep

Upper secondary school and junior college students interested in learning Linux OS, open source programming, and IoE skills to expand IT knowledge beyond networking. Aligns with the Linux Professional Institute (LPI) Linux Essentials Professional Development Certificate.

Prerequisites: None

Language: English

Course Delivery: Instructor led and Self-paced*

Estimated Time to Complete: 70 hours

***Fee**: $39.95 USD for Self-paced only

Recommended Next Course: CCNA R&S Introduction to Networks

NDG
Network Development Group

Overview
Linux Essentials Course

Why is knowing the command line important?

Flexibility and mobility!

By understanding the foundation of Linux, you have the ability to work on ANY Linux distribution. This could mean one company with a mixed environment or a new company with a different Linux distribution.

Learning Components

- 16 chapters
- Built-in virtual machine to experiment with Linux commands
- 13 lab exercises
- Learner-directed activities
- Chapter exams, mid-term, and final exam

NDG Introduction to Linux I

Course Overview

The NDG Introduction to Linux I course, developed by NetAcad partner NDG, teaches students the Linux skills required to prepare for the Linux Professional Institute LPIC-1 first certification exam or the CompTIA Linux+ powered by LPI first certification exam.

Prerequisites: None required, but NDG Linux Essentials or equiv. knowledge recommended

Language: English

Course Delivery: Instructor led* and Self-paced*

Estimated Time to Complete: 70 hours

*Fee: $39.95 USD per learner.

Recommended Next Course: NDG Intro to Linux II

Career Prep

Aligns with the Linux Professional Institute LPIC-1 and CompTIA Linux+ powered by LPI first exam.

NDG Introduction to Linux I
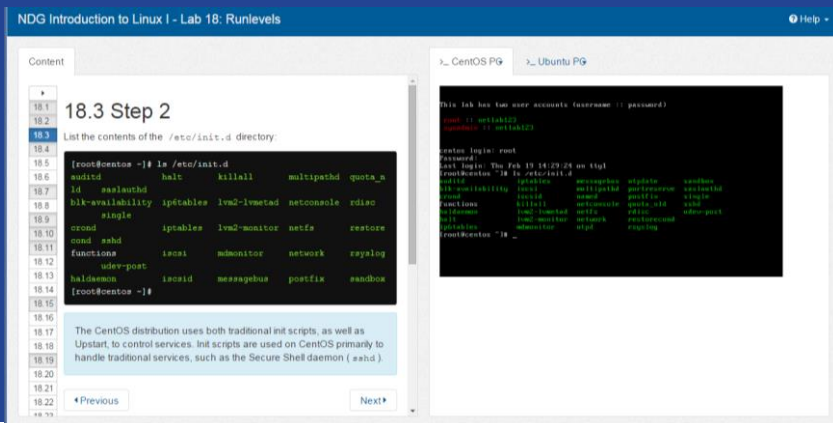
Learning Components

- 27 chapters
- Built-in virtual machine to experiment with Linux commands
- 24 lab exercises
- Learner-directed activities
- Chapter exams, mid-term, and final exam

NDG Introduction to Linux II

Course Overview

The NDG Introduction to Linux II course, developed by NetAcad partner NDG, teaches students the Linux skills required to prepare for the Linux Professional Institute LPIC-1 second certification exam or the CompTIA Linux+ powered by LPI second certification exam.

Prerequisites: None

Language: English

Course Delivery: Instructor led* and Self-paced*

Estimated Time to Complete: 70 hours

***Fee:** $39.95 USD per learner

Recommended Next Course: CCNA R&S Intro to Networks

Career Prep

Aligns with the Linux Professional Institute LPIC-1 and CompTIA Linux+ powered by LPI second exam.

NDG Introduction to Linux II
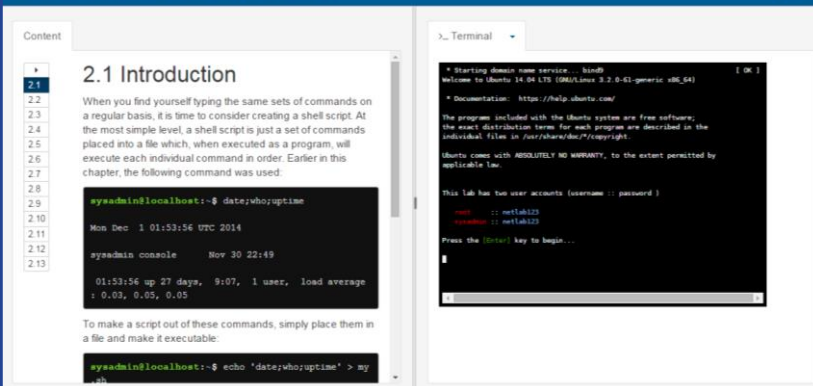
Learning Components

- 19 chapters
- Built-in virtual machine to experiment with Linux commands
- 19 lab exercises
- Learner-directed activities
- Chapter exams, mid-term, and final exam

Networking

Why Networking?

As our world becomes increasingly reliant on computer networks and networking technologies, there's a growing need for professionals who can design, build, manage, and secure networks.

Our networking courses introduce students to a range of topics, from routing protocols and network applications to network services and configurations. The courses emphasize hands-on learning and troubleshooting.

Career Prep

Our networking courses align with globally recognized career certifications including Cisco CCENT, CCNA R&S, and CCNP R&S.

Students learn how to become network administrators and network managers.

CCNA Routing & Switching (1-4) **PT**

CCNP Routing & Switching (1-3)

Networking Essentials **PT**

CCNA Routing and Switching Curriculum

Curriculum Overview

The 4 courses in the CCNA R&S curriculum help students develop a comprehensive understanding of how networks operate, from protocols and services to network management, with an emphasis on hands-on learning and essential career skills like problem solving and collaboration.

Career Prep

Courses 1-2 align with the Cisco CCENT certification and courses 3-4 align with the Cisco CCNA R&S certification. Students gain the skills needed to become network administrators, technicians, or managers.

Prerequisites: IT Essentials or equivalent knowledge

Languages: Arabic, Chinese-Simplified, English, French, Japanese, Portuguese-Brazilian, Russian, Spanish (courses 1 and 2 also available in German, Hungarian, and Turkish; course 1 also available in Romanian)

Course Delivery: Instructor led

Estimated Time to Complete: 280 hours

Recommended Next Course: CCNA Security or CCNP

Course assessments are analyzed and refreshed each quarter

Assessments are automatically scored and recorded in the Gradebook
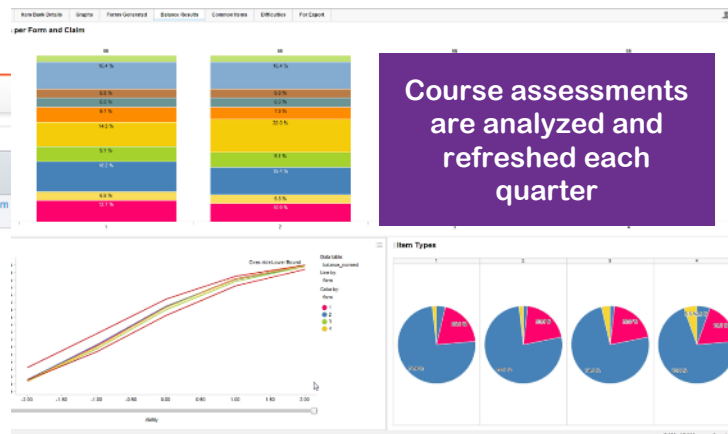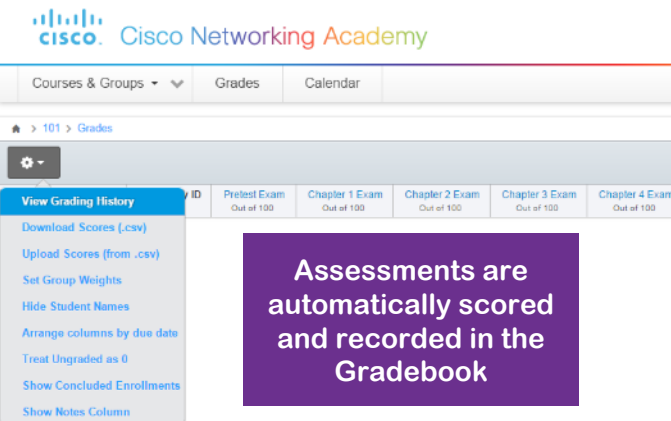
Learning Components

- 4 courses: Introduction to Networks, Routing and Switching Essentials, Scaling Networks, Connecting Network
- Hands-on labs and Cisco Packet Tracer network simulation activities
- Videos and activities to reinforce learning
- Quizzes and exams to measure learning outcomes

CCNA R&S: Introduction to Networks

Course Overview

The first course in the Cisco CCNA Routing and Switching curriculum teaches students about the architecture, structure, functions and components of the Internet and other computer networks.

Students gain an essential foundational understanding of how networks operate.

Career Prep

Secondary school through university students seeking skills for entry-level networking jobs or more specialized ICT training.

Prerequisites: IT Essentials or equivalent knowledge

Languages: Arabic, Chinese-Simplified, Croatian, English, French, German, Hungarian, Japanese, Portuguese-Brazilian, Polish, Romanian, Russian, Spanish, Turkish

Course Delivery: Instructor led

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA R&S Routing & Switching Essentials

Learning Components

- 11 chapters
- 33 hands-on labs and 1 hands-on skills assessment
- Pre-test, 11 chapter quizzes, 2 sectional quizzes, 11 chapter exams, and 1 final exam
- 2 Cisco Packet Tracer Skills Based Assessments

CCNA R&S: Routing and Switching Essentials

Course Overview

The second course in the CCNA Routing and Switching curriculum describes the architecture, components, and operations of routers and switches in a small network.

Students learn how to configure a router and a switch for basic functionality

Career Prep

Secondary school through university students seeking Cisco CCENT certification and skills for entry-level network technician jobs.
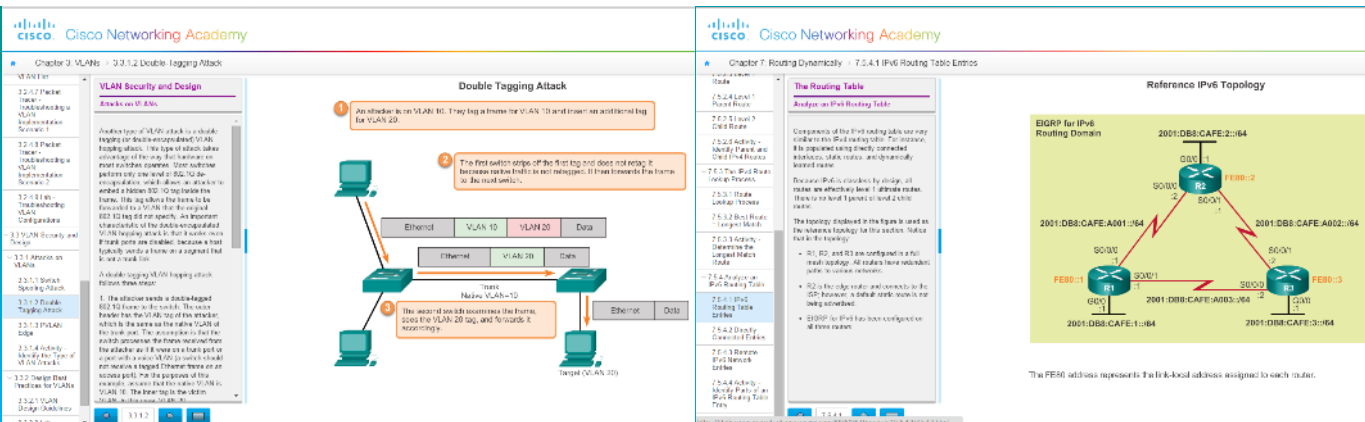
Prerequisites: CCNA R&S: Introduction to Networks

Languages: Arabic, Chinese-Simplified, English, French, German, Hungarian, Japanese, Portuguese-Brazilian, Polish, Russian, Spanish, Turkish

Course Delivery: Instructor led

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA R&S Scaling Networks or CCNA Security

Learning Components

- 11 chapters
- 33 hands-on labs and 1 hands-on skills assessment
- Pre-test, 11 chapter quizzes, 11 chapter exams, 2 sectional quizzes, and 1 final exam
- 3 Cisco Packet Tracer Skills Based Assessments

CCNA R&S: Scaling Networks

Course Overview

The third course in the CCNA Routing and Switching curriculum describes the architecture and operations of routers and switches in large, complex networks.

Students learn how to configure and troubleshoot routing and switching technologies and protocols.

Career Prep

Junior college and university students seeking skills for entry-level network administration jobs or more specialized ICT training
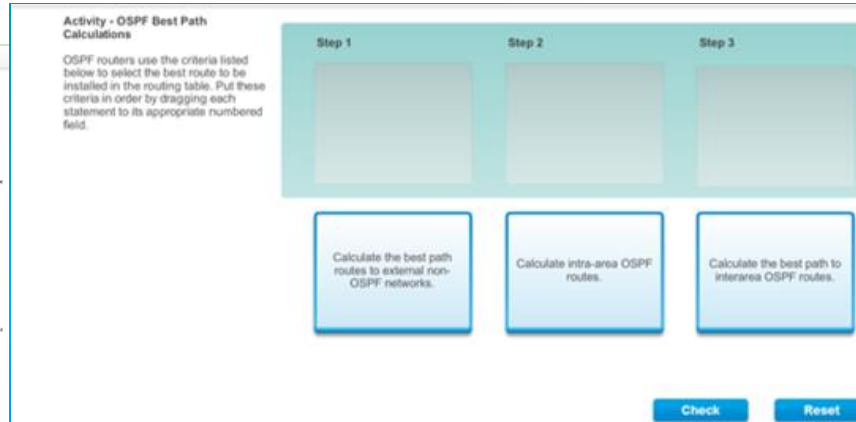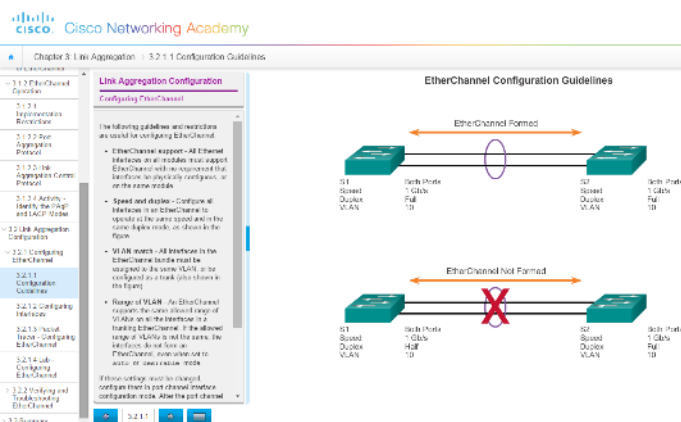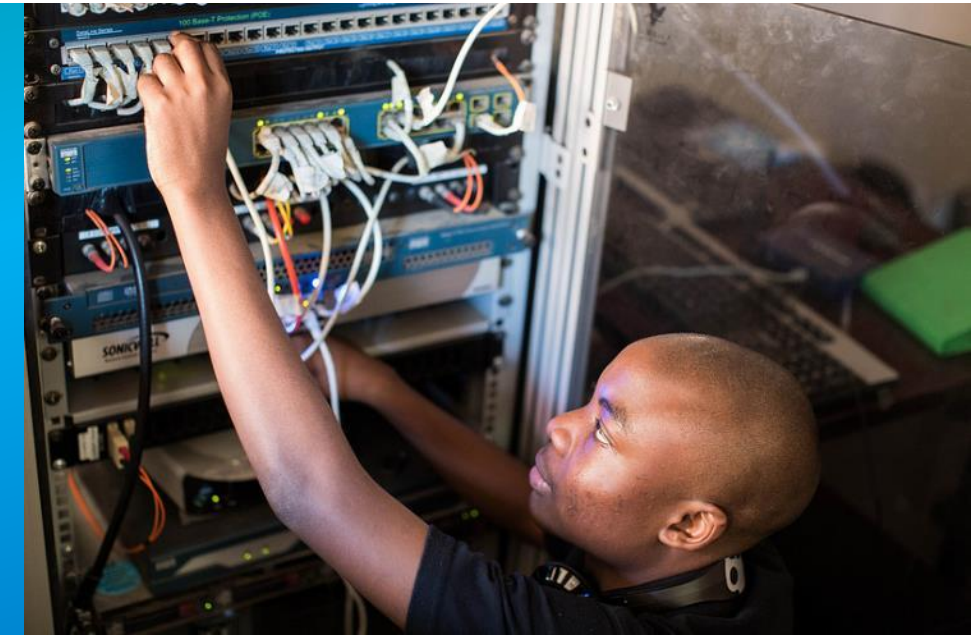
Prerequisites: CCNA R&S: Routing & Switching Essentials

Languages: Arabic, Chinese-Simplified, English, French, Japanese, Portuguese-Brazilian, Russian, Spanish

Course Delivery: Instructor led

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA R&S Connecting Networks

Learning Components

- 9 chapters
- 19 hands-on labs and 2 hands-on skills assessments
- Pre-test, 9 chapter quizzes, 9 chapter exams, 2 sectional quizzes, and 1 final exam
- 2 Cisco Packet Tracer Skills Based Assessments

CCNA R&S: Connecting Networks

Course Overview

The fourth and final course in the CCNA Routing and Switching curriculum covers the WAN technologies and network services employed by converged applications in a complex network.

Students learn how to configure and troubleshoot network devices and implement virtual private networks.

Career Prep

Junior college and university students seeking Cisco CCNA R&S certification and skills for entry-level network administration jobs

Prerequisites: CCNA R&S: Scaling Networks

Languages: Arabic, Chinese-Simplified, English, French, Japanese, Portuguese-Brazilian, Russian, Spanish

Course Delivery: Instructor led

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA Security or CCNP R&S ROUTE

Learning Components

- 9 chapters
- 12 hands-on labs and 1 hands-on skills assessment
- Pre-test, 9 chapter quizzes, 9 chapter exams, 2 sectional quizzes, and 1 final exam
- 2 Cisco Packet Tracer Skills Based Assessments

CCNP Routing & Switching

Course Overview

The three CCNP Routing & Switching courses provide a comprehensive overview of enterprise-level networking concepts, including advanced routing, switching, and troubleshooting.

The curriculum integrates industry-relevant instructional approaches to help students prepare for career opportunities.

Prerequisites: CCNA R&S courses 1 - 4
Languages: English
Course Delivery: Instructor led, textbook based
Estimated Time to Complete: 210 hours

Career Prep

College students seeking hands-on practical experience, Cisco CCNP R&S certification, and career skills in advanced routing, switching, and troubleshooting.

Learning Components

- 3 courses: CCNP R&S ROUTE: Implementing IP Routing, CCNP R&S SWITCH: Implementing IP Switched Networks, and CCNP R&S TSHOOT: Troubleshooting and Maintaining IP Networks

- Hands-on labs

- Cisco Press textbooks

- Chapter exams and final exams

Security

Why Security?

The demand for security experts has grown three times faster than the demand for other information and communication technology professionals.

Our security courses equip students with the skills needed to protect networks from those with malicious intent to help ensure the integrity and availability of data and services.

Career Prep

Our security courses teach the core concepts and skills needed to secure and protect computer networks and explore career opportunities.

CCNA Security aligns with the Cisco CCNA Security certification.

Intro to Cybersecurity

CCNA Security

PT

Introduction to Cybersecurity

Course Overview

Introduction to Cybersecurity covers trends and career opportunities in the growing field of computer network security

It features presentations and panel discussions delivered by cybersecurity professionals and industry experts.

Prerequisites: None

Languages: English

Course Delivery: Instructor led or self paced

Estimated Time to Complete: 15 hours

Recommended Next Course: CCNA R&S Introduction to Networks

Career Prep

Upper secondary and junior college students interested in learning about trends, certifications, and career opportunities in the cybersecurity field.

Introduction to Cybersecurity
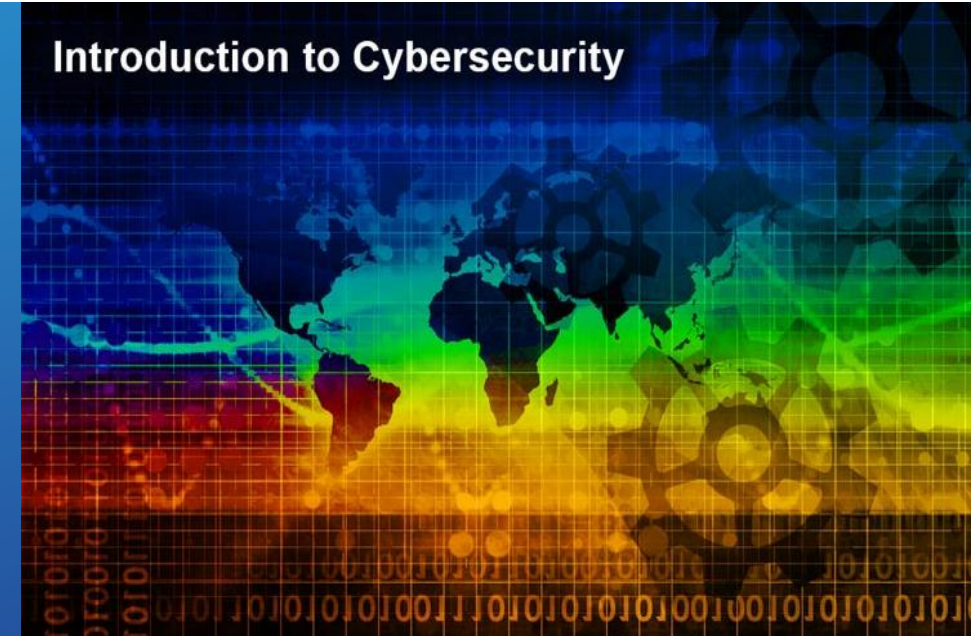
Our adversary only has to be right once...

Delete doesn't mean deleted

Over 3 years later, "deleted" Facebook photos are still online - CNN.com
By Jacqui Cheng, Ars Technica
2012-02-06T17:29:28Z

Welcome to Facebook! | Facebook - Windows Internet Explorer

http://www.facebook.com/

Welcome to Facebook! | Facebook

facebook

Facebook helps you connect
the people in your life.

Learning Components

- 8 modules
- Video presentations and panel discussions
- Activities that reinforce learning
- Pre-test, 8 quizzes, and final exam
- Links to related resources

CCNA Security

Course Overview

CCNA Security introduces the core security concepts and skills needed to troubleshoot and monitor computer networks and help ensure the integrity of devices and data.

It emphasizes the practical application of the skills needed to design, implement, and manage network security systems

Prerequisites: CCNA R&S: Routing and Switching Essentials or equivalent knowledge

Languages: English

Course Delivery: Instructor led

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNP

Career Prep

CCNA R&S students interested building security and data protection expertise for the Cisco CCNA Security career certification and jobs as network security specialists.
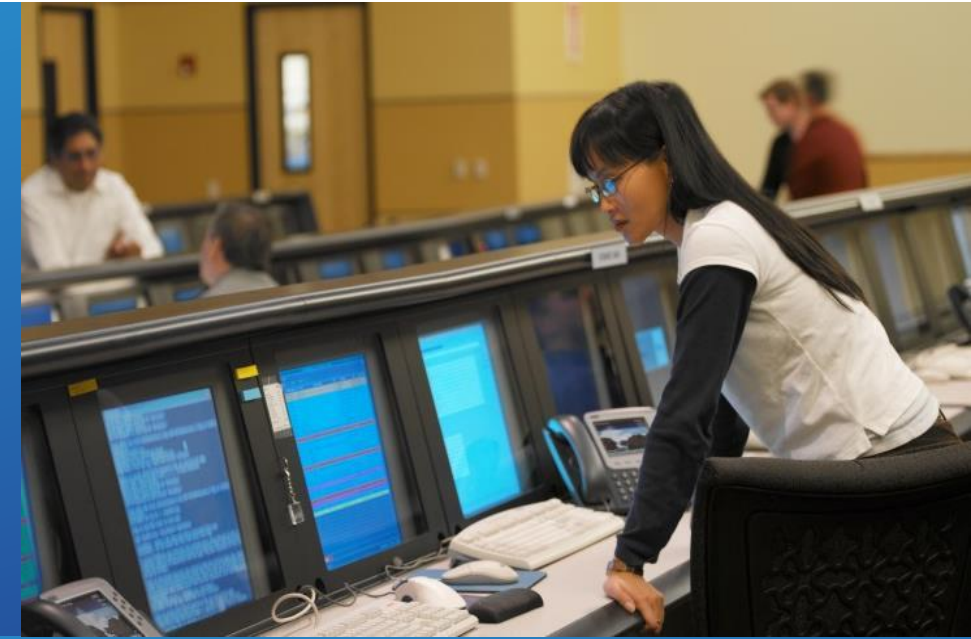
Learning Components

- 11 chapters, quizzes, and chapter exams
- 13 Cisco® Packet Tracer activities and one Packet Tracer Practice Skills Based Assessment (SBA)
- 16 hands-on labs
- One each: pre-test, certification practice exam, practice final, final exam and skills-based assessment

Technology

Why Technology?

Our Technology content is developed by a community of NetAcad instructors and covers concepts related to computer networks, such as cloud computing and wireless technologies.

Instructors may use these learning materials to create courses for students.

Career Prep

These learning resources are designed to expand knowledge of networking-related technologies and provide an overview of technologies students may encounter in their careers.

Voice Primer **PT**

Cloud Primer

Collaboration Primer

Mobility Fundamentals Series **PT**

Community Developed Primers

Voice Primer	Cloud Primer	Collaboration Primer

Supplemental learning content developed by NetAcad instructors that provides a foundational overview of essential information and communication technologies. Can be used to create and teach courses.

Voice Primer

Topics Covered

Common voice terminology and concepts

Advantages of voice over IP (VoIP) systems

Learning Components

- Cisco Packet Tracer lab to configure Cisco Unified Communications Manager Express
- 2 modules with instructional slides and labs

Prerequisites: CCNA R&S ITN and RSE (CCENT)
Languages: English
Estimated Time to Complete: 8 hours

Cloud Primer

Topics Covered

Cloud computing and underlying technologies in consolidation, virtualization, and automation

Benefits of cloud computing technologies

Learning Components

- Videos
- Case studies
- Instructional slides
- Links to additional resources

Prerequisites: CCNA R&S ITN and RSE (CCENT)
Languages: English
Estimated Time to Complete: 40 hours

Collaboration Primer

Topics Covered

Fundamentals of telephony and collaboration

Implementing Voice over IP technologies on routers

Mobile apps and Cisco TelePresence
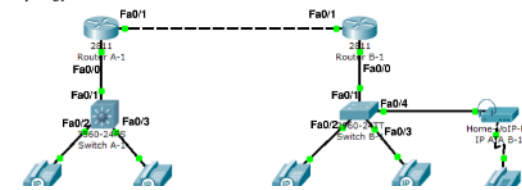
Learning Components

- Multimedia
- Labs
- Formative assessments

Prerequisites: CCNA R&S ITN and RSE (CCENT)
Languages: English
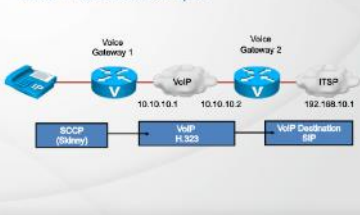**Estimated Time to Complete:** 60 hours
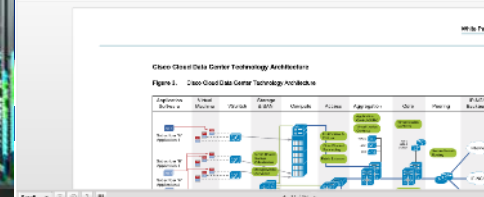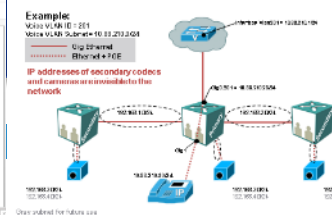
Mobility Fundamentals Series

Series Overview

Starting with Wireless Technology Standards, the Mobility Fundamentals series teaches students about wireless and mobility technologies in the Internet of Everything.

Topics covered in these instructor-developed courses include wireless LAN design and mobility applications.

Prerequisites: IT Essentials or CCNA R&S 1-2

Languages: English

Course Delivery: Self paced

Estimated Time to Complete: 1.5 hour (each course)

Recommended Next Course: Mobility Fundamentals Series: Wireless LAN Networks (next in the Mobility Series)

Career Prep

Builds foundational wireless and mobility technology career skills for current IT Essentials or CCNA R&S students interested in learning more about the Internet of Everything.
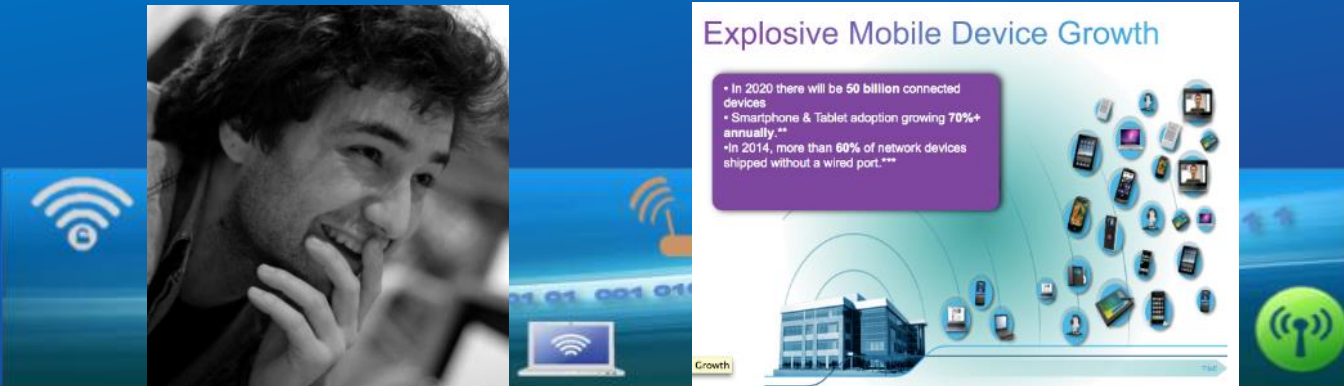

Explosive Mobile Device Growth

- In 2020 there will be **50 billion** connected devices
- Smartphone & Tablet adoption growing **70%+** annually.**
- In 2014, more than **60%** of network devices shipped without a wired port.***

Growth

Learning Components

- Several modules of multimedia content

- Video recordings featuring NetAcad instructors

- Activities that reinforce learning, including Cisco Packet Tracer activities

- Assessments, including module quizzes

- Certificates of completion for each module
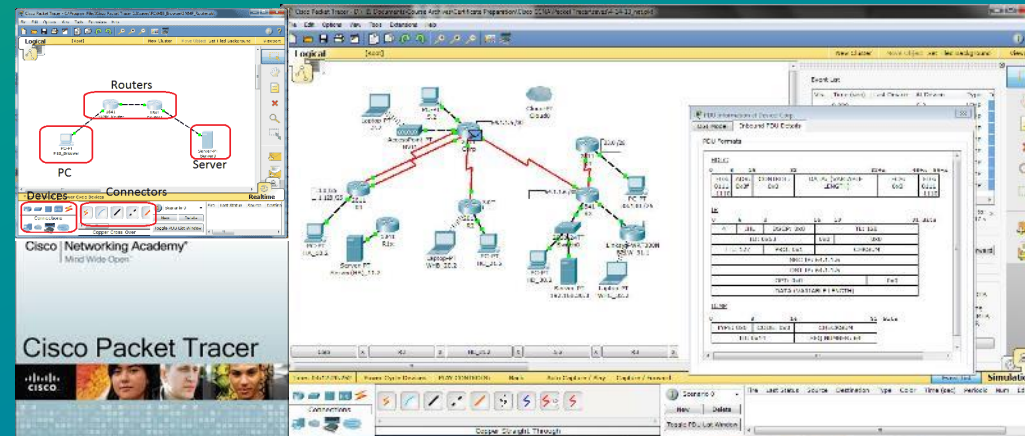
Cisco Packet Tracer

Why Packet Tracer?

The Cisco Packet Tracer simulation tool allows students to experiment with network behavior in a virtual environment. It supplements physical networking equipment by allowing students to create virtual networks with unlimited devices; encouraging practice, discovery, and troubleshooting.

As an integral part of the NetAcad learning experience, Packet Tracer provides simulation, visualization, authoring, assessment, and collaboration capabilities and facilitates the teaching and learning of complex technology concepts.

Career Prep

The Packet Tracer simulation-based learning environment promotes the development of essential career skills ranging from teamwork and critical thinking to creative problem solving.

Cisco Packet Tracer (PT)

Packet Tracer Know How

PT Mobile Android

PT Mobile iOS

Packet Tracer Know How Series

Packet Tracer 101

As the first of the Packet Tracer Know How series of community developed courses, Packet Tracer 101 is designed for new users of Packet Tracer for self-study and familiarization with the tool.

Topics covered:
- The navigation of main user interfaces
- Difference between logical views and physical views
- How to build a simple network topology
- How to complete a Packet Tracer activity

Learning Components

- 3 chapters
- Files and demos
- 1 hands-on learning activity
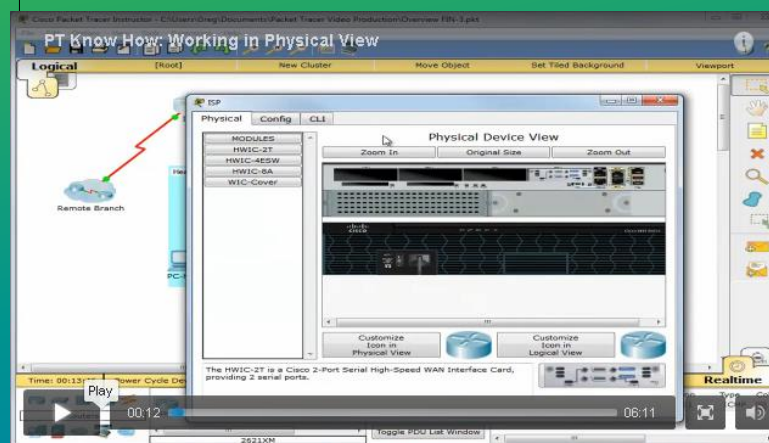- 1 quiz

Prerequisites: None

Languages: English

Course Delivery: Self-Paced

Estimated Time to Complete: 1 hour

Series Overview

The Packet Tracer Know How Series introduces tips and best practices to help instructors and students use Cisco Packet Tracer as an effective and engaging learning and assessment tool.

Internet of Everything

Why IoE?

As the number of networked connections between people, processes, data, and things grows exponentially, it's essential to understand the technologies that enable the Internet of Everything (IoE), and how increased connectivity creates new opportunities to excel and improve business processes, and address some of the world's greatest challenges.

These courses broaden students' thinking beyond core networking and technology concepts.

Career Prep

Students explore the technologies that underpin the IoE and learn about millions of career opportunities that are emerging from data centers, cloud computing, big data, and the Internet of Things.

Intro IoE Summary Podcast

Introduction to the Internet of Everything **PT**

Smart Grid (German)

IoE: Connecting Data

IoE: Connecting People & Process

IoE: Connecting Things

Introduction to the Internet of Everything Summary Podcast

Series Overview

This podcast series provides an introduction to the future of the Internet, where a network foundation connects billions of things and trillions of gigabytes of data, enhancing our decision making and daily interactions.

It can be used to prepare for the Introduction to the Internet of Everything course.

Prerequisites: None

Languages: English

Delivery Method: mp3 files

Estimated Time to Complete: 2.5 hours

Recommended Next Course: Introduction to the Internet of Everything

Career Prep

Anyone seeking to develop a broad understanding of trends, technologies, and career opportunities in the Internet of Everything.

Learning Components

- 5 modules featuring a panel of IoE experts
- Links to related resources
- Downloadable mp3 files

Introduction to the Internet of Everything

Course Overview

The Introduction to the Internet of Everything (Intro to IoE) course introduces learners to the technologies that support the IoE, and the career and social opportunities created by the growing number of networked connections between people, processes, data, and things.

Prerequisites: None

Languages: Chinese-Simplified & Traditional, English, French, Japanese, Portuguese-BR, Russian, Spanish

Course Delivery: Instructor led or self paced

Estimated Time to Complete: 20 hours

Recommended Next Course: IT Essentials or CCNA R&S Introduction to Networks

Career Prep

Secondary school through university students seeking an overview of trends, technologies, and career opportunities in the Internet of Everything.
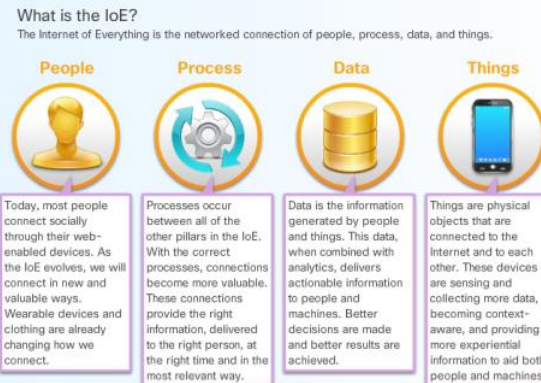
Learning Components

- 5 modules of interactive content featuring IoE experts
- Activities, videos, and simulations to enhance the learning experience
- Pre-test, module quizzes, and a final exam

Smart Grid

Overview

Smart Grid presents the necessary devices and their function used in a smart gird home system. The course discusses connecting smart meters with a home area network (HAN), integrating smart meter gateways in a wide area network (WAN), and installation procedures and security aspects based on German technical regulations.

**Prerequisites:** None, basic competence in electrical engineering recommended

Languages: German

Course Delivery: Instructor Led

Estimated Time to Complete: 80 hours

Recommended Next Course: CCNA R&S

Career Prep

Builds foundational smart grid career skills for current employees in electrical installation and those in initial vocational education and training for a career in electrical installation and electrical engineering.
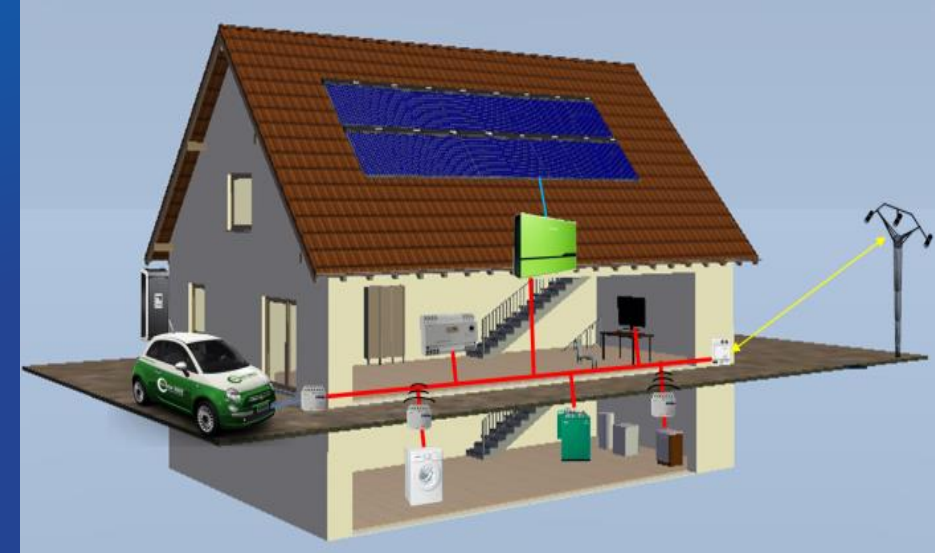
Learning Components

- Several modules of multimedia content

- Activities that reinforce learning

- Cisco Packet Tracer activities (under construction)

- Assessments, including module quizzes

Entrepreneurship

Why Entrepreneurship?

In addition to technology skills, business owners and professionals need entrepreneurial skills such as creative thinking, communication, business management, and problem solving skills.

Our Entrepreneurship offerings help students develop essential skills to successfully launch new ventures or excel within team environments.

They broaden students' thinking beyond core networking and technology concepts.

Career Prep

Our Entrepreneurship courses help students develop an entrepreneurial mindset and cultivate the habits and skills needed for success in the Internet of Everything.

Entrepreneurship

Be Your
Own Boss

Entrepreneurship

Course Overview

Entrepreneurship supplements the ICT skills gained in CCNA R&S curriculum by teaching business and financial skills, behaviors, and attitudes, to help students develop an entrepreneurial mindset.

Students learn by completing a series of interactive case studies.

Prerequisites: None

Languages: Arabic, Chinese-Traditional and Simplified, English, and Spanish

Course Delivery: Self paced or instructor led

Estimated Time to Complete: 15 hours

Recommended Next Course: CCNA R&S ITN

Career Prep

High school through college students seeking to supplement ICT expertise with entrepreneurial thinking, business development, and financial management skills.

Learning Components

- 7 modules
- Modules feature interactive case studies and videos that reinforce business management skills
- Quizzes for each module
- Discussion board

Be Your Own Boss

Course Overview

The Be Your Own Boss Technopreneur Series provides the guidelines, insights, and advice needed to launch successful tech ventures.

The series features video presentations by entrepreneurs from around the world who share lessons learned along their journeys to success.

Prerequisites: None

Languages: English

Course Delivery: Self paced

Estimated Time to Complete: 8 hours

Recommended Next Course: Entrepreneurship

Career Prep

Technology students interested in developing the entrepreneurial skills and habits needed to launch and grow a successful technology business.
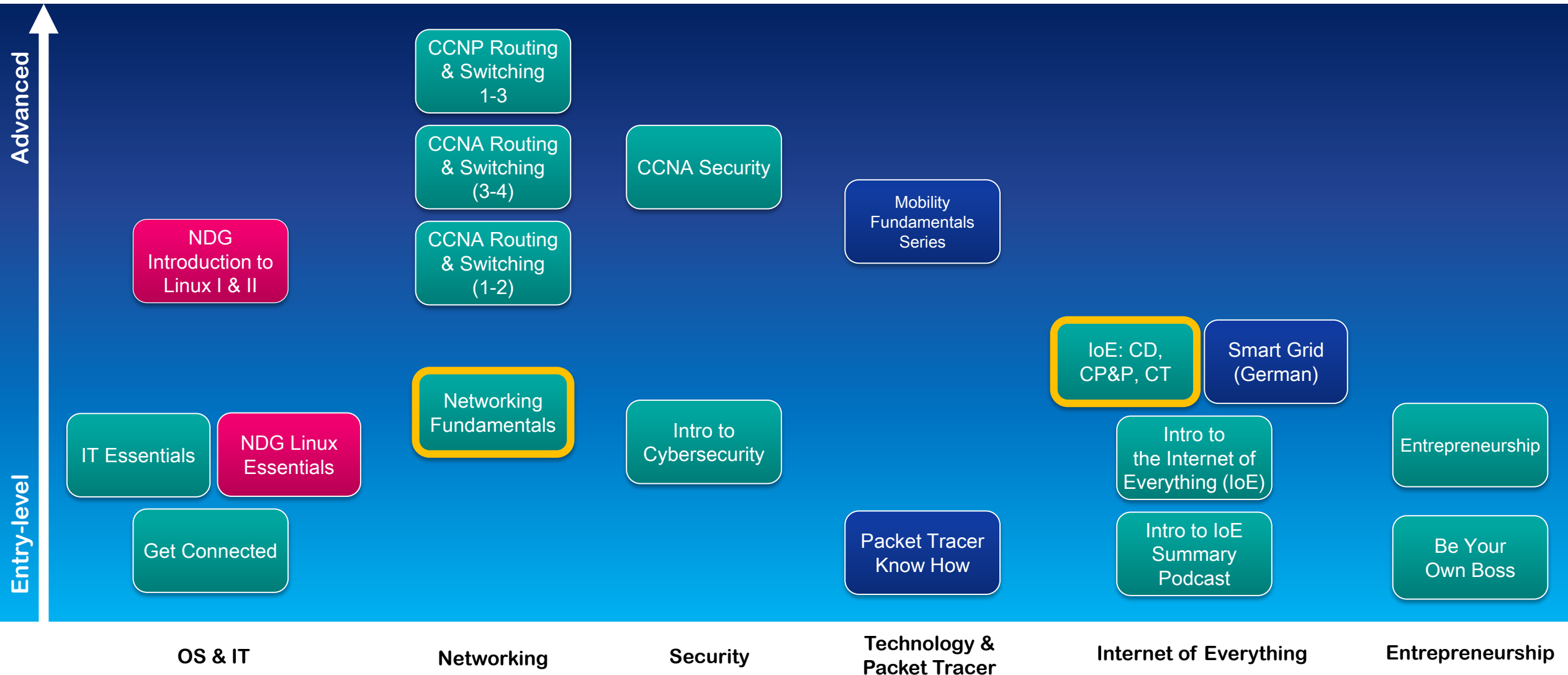

Learning Components

- 8 modules
- Technopreneurs sharing personal success stories in video format
- Quizzes and surveys for each module

Course Proficiency

Advanced

Entry-level

CCNP Routing & Switching 1-3

CCNA Routing & Switching (3-4)

CCNA Routing & Switching (1-2)

CCNA Security

Mobility Fundamentals Series

NDG Introduction to Linux I & II

IoE: CD, CP&P, CT

Smart Grid (German)

Networking Fundamentals

IT Essentials

NDG Linux Essentials

Intro to Cybersecurity

Intro to the Internet of Everything (IoE)

Entrepreneurship

Get Connected

Packet Tracer Know How

Intro to IoE Summary Podcast

Be Your Own Boss

OS & IT

Networking

Security

Technology & Packet Tracer

Internet of Everything

Entrepreneurship

Appendix

Public-Private Partnerships Make It Work

Government

Public Benefit

Education

Business

Cisco Networking Academy Program Features

Interactive content and learning tools

Discounts on equipment and certification exams

Instructor training, online communities, and professional development

Online teaching resources and gradebooks

Formative and summative assessments that provide immediate, detailed feedback

Global Support Desk and network of Academy Support Centers

Innovations in Teaching and Learning

Instant Feedback — Interactive online courses measure student comprehension with quizzes and activities, and provide detailed feedback
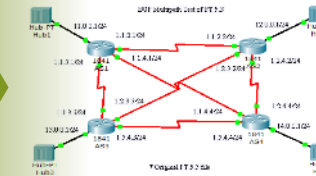

Gaming — Integrates virtual worlds, scoring and competitions (Cisco Aspire)

Simulations — Extend student practice beyond physical lab equipment (Cisco Packet Tracer)

Case Studies — Real world projects to practice business, financial, and career century skills (Entrepreneurship)

Social Media — Learning outside the classroom on NetSpace, Facebook and Twitter