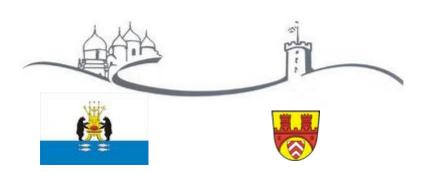


Sister cities





http://www.bielefeld-welikijnowgorod.de/



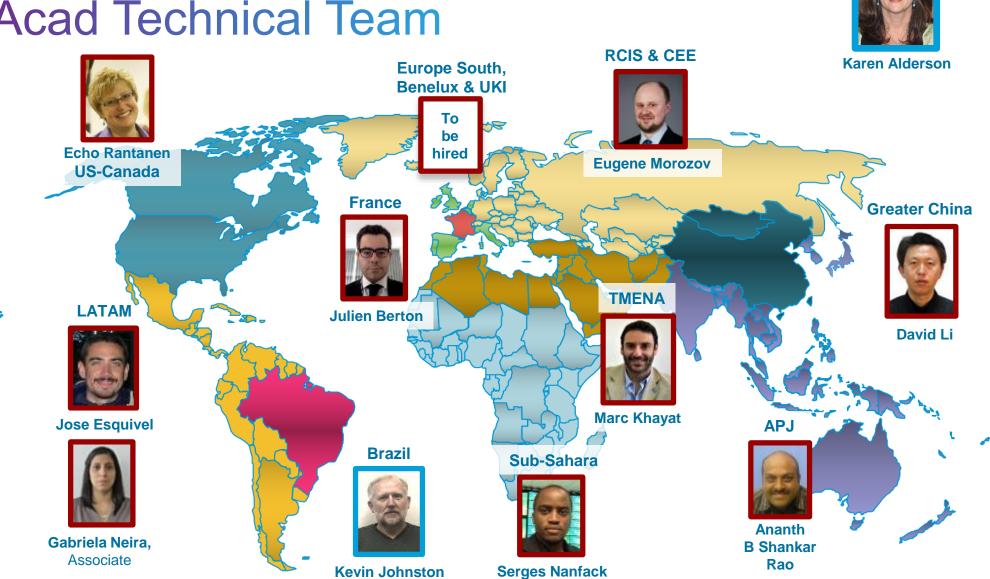
Course and Technical Updates

Eugene Morozov
Technical Manager CEE-RCIS

16 September 2016 Bielefeld



NetAcad Technical Team



Agenda

- Learning Portfolio
- IT Essentials 6.0
- CCNA R&S 6.0
- CCNP Slides
- Vouchers
- Packet Tracer 7
- Academy Orientation
- NetAcad.com

- Mobility Fundamentals
- Intro to CyberSec
- Get Connected
- Be Your Own Boss Series
- C++ Programming
- Linux Courses
- Internet of Things Offerings
- Collaboration and Professional Development

Learning Portfolio



Cisco Networking Academy Learning Portfolio

Exploratory

Consider a Career in Technology

- Introduction to IoT
- Introduction to Cybersecurity
- Get Connected

Tutorials:

- Packet Tracer Know How
- Linux Unhatched

Series:

- Be Your Own Boss
- Career & Technical Webinars

Skills to Solve Real-World Problems

Foundational Prepare for a Technology Career

- IT Essentials
- NDG Linux Essentials
- Cybersecurity Essentials*
- Networking Essentials*

- CPA: Programming Essentials in C++
- Mobility Fundamentals
- Entrepreneurship

IoT Fundamentals:

- Connecting Things*
- Big Data and Analytics*
- Hackathon Playbook*

Career-Ready Step into Your Technology Career

CCNA Routing & Switching:

- Introduction to Networks
- Routing & Switching Essentials
- Scaling Networks
- Connecting Networks

CCNP Routing & Switching:

- ROUTE
- SWITCH
- TSHOOT

CCNA Security
CCNA Cyber Ops**

NDG Linux:

- Linux I
- Linux II

Collaborate for Impact

Synthesize your skills

- Packet Tracer
- Cisco NetRiders Competition
- Internships
- · Regional IT Competitions
- Regional Hackathons

^{*} Available within 6 months

^{**}Available second half 2017

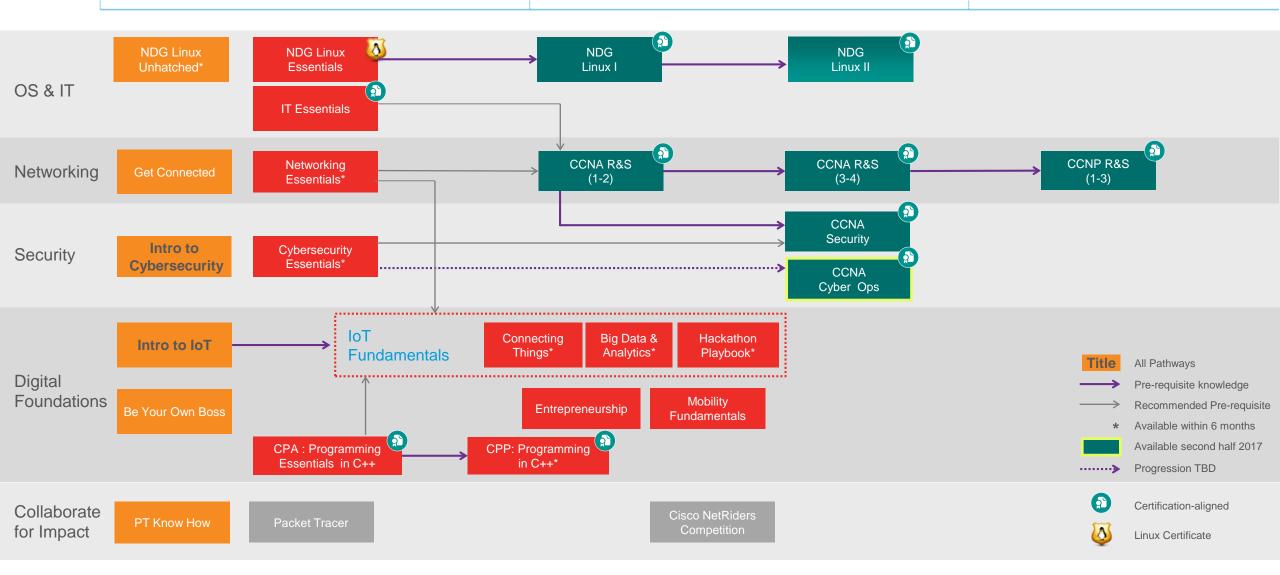


Sample Job Titles

- Technical Support
- · IT Field Service Technician
- Help Desk Technician
- Mobile Application Support
- Network Support Technician
- Network Analyst

- Network Technician
- Support Engineer
- Network Administrator
- Entry-Level Network Engineer
- Linux Administrator
- Cyber Ops Analyst

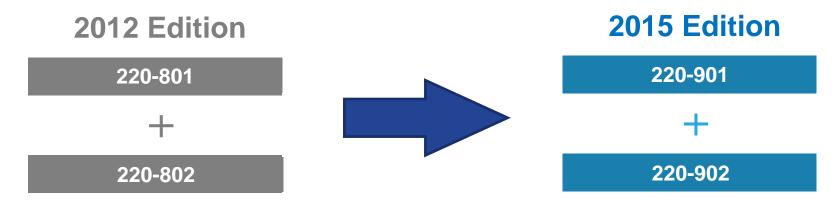
- Level II Network Engineer
- Network Designer
- · Security, Voice or Wireless Engineer



IT Essentials 6.0



New CompTIA A+ Certification Exams



- New certification exams were announced in December 2015
- 220-800 series exams will be available until June 30, 2016
- Both the 220-901 and 220-902 exams must be passed for CompTIA A+ certification
- Student vouchers are available for 900-series exams through the CompTIA Authorized Partner Program

IT Essentials

Course Overview

IT Essentials covers fundamental computer and career skills for entry-level IT jobs. Students apply skills and procedures to install, configure, and troubleshoot computers, mobile devices, and software.

Benefits

For students seeking career-oriented, entry-level hardware and software skills to prepare for technical support roles, this course aligns with the CompTIA A+ certification.

This course also serves as a foundation for CCNA-level courses.

Learning Components

- 14 chapters
- 99 hands-on labs and 29 interactive activities
- · Cisco Packet Tracer, virtual laptop, and virtual desktop learning tools
- 14 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





Features

Target Audience: Secondary and 2-year college vocational students

Prerequisites: None

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

Course Delivery: Instructor-led

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA R&S Introduction to

Networks

IT Essentials 6.0 Content Updates

ITE 5.0	ITE 6.0		
Chapter 1: Intro to the Personal Computer	Chapter 1: Introduction to the Personal Computer		
Chapter 2: Lab Procedures and Tool Use	Chapter 2: Introduction to Lab Procedures and Tool Use		
Chapter 3: Computer Assembly	Chapter 3: Computer Assembly		
Chapter 4: Overview of Preventive Maintenance	Chapter 4: Overview of Preventive Maintenance		
Chapter 5: Operating Systems	Chapter 5: Windows Installation		
	Chapter 6: Windows Configuration and Management		
Chapter 6: Networks	Chapter 7: Networking Concepts		
	Chapter 8: Applied Networking		
Chapter 7: Laptops	Chapter 9: Laptops and Mobile Devices		
Chapter 8: Mobile Devices	Chapter 10: Mobile, Linux and OS X Operating Systems		
Chapter 9: Printers	Chapter 11: Printers		
Chapter 10: Security	Chapter 12: Security		
Chapter 11: The IT Professional	Chapter 13: The IT Professional		
Chapter 12: Advanced Troubleshooting	Chapter 14: Advanced Troubleshooting		

End-of-Life for IT Essentials 5.0

Course	Language	Last Class Start Date
IT Essentials 5.0	English	January 20, 2017

Workshoprunde 1 17.30 – 18.30 IT Essentials 6.0 Session Bernd Kelker D431

CCNA R&S Updates



Cisco CCNA R&S Certification and CCNA R&S 6.0 Bridging Course

- NEW Cisco CCNA R&S Certifications Announcement: May 17, 2016
- NEW NetAcad CCNA R&S 6.0 Bridging Course







CCNA R&S version 6.0 Course Release Timeline

Course	Language	Projected Release	
Introduction to Networks (ITN) v6.0	English December 2016		
Introduction to Networks (ITN) v6.0	Arabic, Chinese, French, Portuguese, Spanish and Russian December 2016		
Routing and Switching Essentials (RSE) v6.0	English	December 2016	
Routing and Switching Essentials (RSE) v6.0	Arabic, Chinese, French, Portuguese, Spanish and Russian	Jan-April 2017 timeframe	
Scaling Networks (ScaN) v6.0	English	June 2017	
Connecting Networks (CN) v6.0	English	July 2017	
ScaN and CN v6.0	Arabic, Chinese, French, Portuguese, Spanish and Russian	TBD	

CCNP Slides



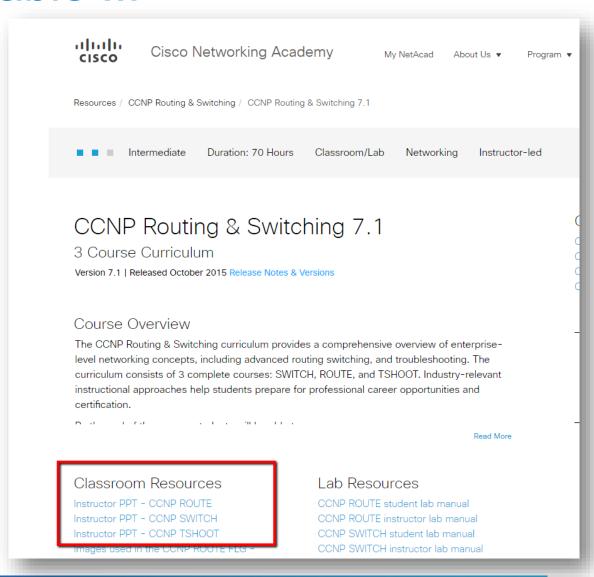
CCNP PowerPoints Now Available !!!



Available in the Course resources

https://www.netacad.com/group/resources/ccnp/7.1

 Use CCNP Forums in NetAcad Communities to share your feedback



CCNP R&S 7.1

Course Components

Instructor PowerPoints

Chapter and Final Exams (leveraging Canvas Quiz functionality)

Hands-on labs

Final Skills Based Assessment

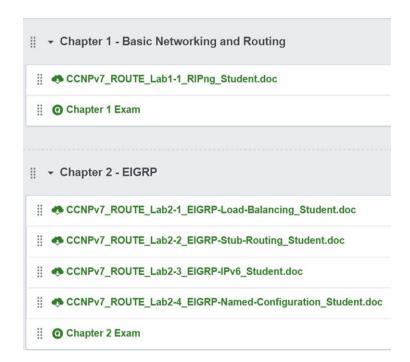
Leveraging Ciscopress.com CCNP R&S Foundation Learning Guides

• CCNP R&S 7.1

Minor version of CCNP R&S courses

Integrate community comments and feedback

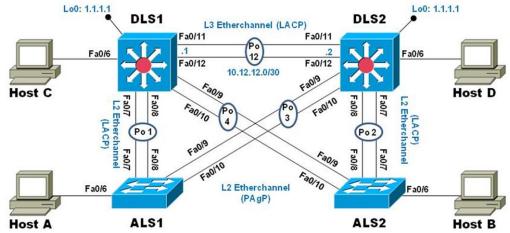
Implement bug fixes



CCNPv7.1 SWITCH

Skills-Based Assessment (Version A)

Topology



Vouchers



Vouchers

Exam	Course	Criteria	Student discount	Instructor discount
CompTIA A+	IT Essentials	75% or higher on first attempt of final exam AND "Complete" in the gradebook	No voucher	No voucher
ICND1	CCNA 2 (RSE)		58 %	No voucher
ICND2	CCNA 4 (CN)		58 %	No voucher
CCNA "Composite"	CCNA 4 (CN)		58 %	70 %
CCNA Security IINS	CCNA Security		50 %	70 %
CCNP	CCNP		No voucher	No voucher
LPI: Linux Essentials	Linux Essentials	"Complete" in the gradebook	20 %	No voucher
LPIC 101	Linux I	"Complete" in the gradebook	20 %	No voucher
LPIC 102	Linux II	"Complete" in the gradebook	20 %	No voucher
CPA - C++ Certified Associate Programmer	Programming Essentials in C++	Take all chapter assessments and the mock test AND 70% or higher on final test	51 %	No voucher

Packet Tracer 7.0



New in Version 7.0

Trial use for non-NetAcad guest users

HTTP Server Improvements

JavaScript and CSS support.

FTP server file import inside Packet Tracer.

HTTP and FTP linked file management support.

Registration Server for IoT.

Physical Workspace

Network topology creation.

Device deployment.

Cabling of devices.

Wiring closet device deployment and cabling.

Unplugging and moving of cables.

Simulation mode support.

Generic Container Creator.

Volume control for containers.

Icon tool for background.

Other Changes

SPAN/RSPAN support.

L2NAT support.

PTP support.

REP support.

LLDP support.

IOx support.

DHCP Server Port-Based Address Allocation support.

Improved PoE support.

Improved copy and paste support.

Piping support in show commands.

IoT Switch protocol support.

Modifiable Environment demonstrating IoT changes.

Python, JavaScript, Blocky programming added for IoT usage.

New Devices

819IOX Routers

829 Router

1240 Router

IE 2000 switch

Microcontroller Unit (MCU).

Single Board Computer (SBC).

Generic Thing.

IoT HomeGateway

IoT Actuators, Sensors, and Smart Devices.







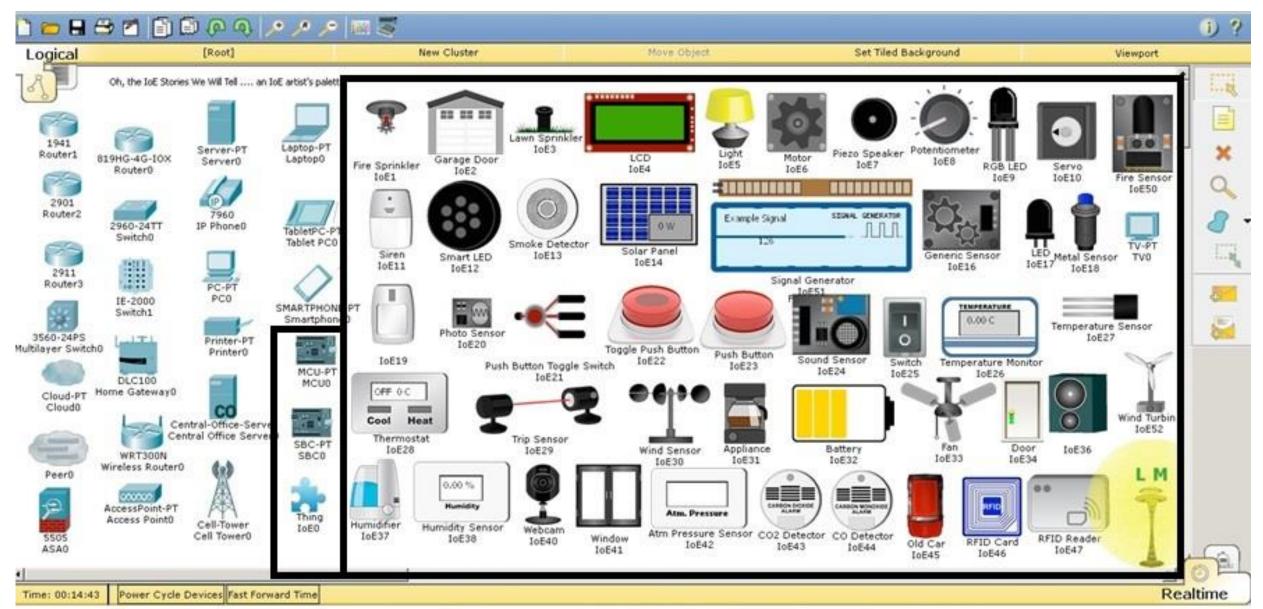








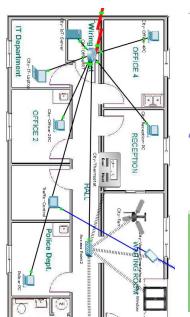


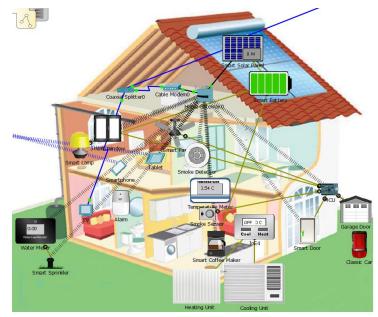


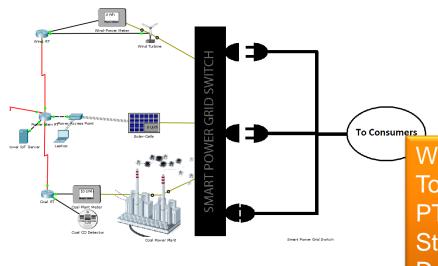
All devices that are inside the boxes are completely new in PT7.0

Highlights 7.0

- Physical Environments
- Smart devices, sensors and actuators
- Smart Home, Smart City, Industrial, Power Grid
- Edit existing or program your own devices
- Python, Javascript, Blockly
- SBC and MCU
- Home Gateway and Reg Server
- Rules for devices to work together
- Routers 819 and 829

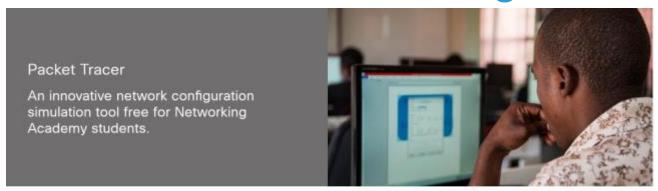






Workshoprunde 5
Tomorrow 11.45 – 12.45
PT 7.0 Session
Stefan Platzek
D419

New Packet Tracer Page



Curriculum Learning Platform Support and Training

Find an Academy

Why Learn with Packet Tracer

The best way to learn about networking is to do it. Cisco Packet Tracer, an innovative network configuration simulation tool. helps you hone your networking configuration skills from your desktop or mobile device. Use Packet Tracer to:

- · Sharpen your skills for a job interview.
- · Prepare for a certification exam.
- . Practice what you learn in networking courses.

Packet Tracer is an essential learning tool used in these Disco Networking Academy courses: IT Essentials, CCNA Routing and Switching, CCNA Security, Intro to Internet of Everything, and Mobility Fundamentals. To download Packet Tracer, log in and click Packet Tracer under Offerings.

Download Packet Tracer and Learn

Sign up for Packet Tracer 101 (English), a 1-hour self-paced online course to help you get started, and download a free version of Packet Tracer for Windows or Linux.

Sign Up

Packet Tracer mobile is also available from the App Store or Google Play. You will need a Networking Academy account to access all features of the app. Sign up now for Packet Tracer Mobile 101 (English), a 1.5-hour self-paced tutorial, to create a free Networking Academy account.

Sign Up

- Newly designed page for Packet Tracer
- Promote PT know how courses
- Anyone can register to the course and get a copy of Packet Tracer

Cisco Packet Tracer

The best way to learn about networking is to do it. Cisco Packet Tracer, an innovative network configuration simulation tool, helps you hone your networking configuration skills from your desktop or mobile device. Use Packet Tracer to: · Sharpen your skills for a job interview. · Prepare for a certification exam · Practice what you learn in networking courses Download To access previous versions of Packet Tracer, FAQs, and other documentation, go to Resources Windows Version 6.3 English Linux Android Packet Tracer Know How Course Need help getting started? Packet Tracer Know How is a series of 1 hour tutorials that quide you through the Packet Tracer interface with tips on how to

https://www.netacad.com/about-networking-academy/packet-tracer/

Install the Packet Tracer mobile now!



- Support Android 4.2 5.0 tablets with 7 inch screen or larger
- Scan the QR code on your Android mobile devices or click the link below to install the Packet Tracer mobile

https://play.google.com/store/apps/details?id=com.netacad.PacketTracerM





- Supporting iPad & iPhone running iOS 8
- Search "Packet Tracer" in "App Store" to install it

https://itunes.apple.com/us/app/id1015041980



affiliates. All rights reserved.

Instructor led option now available!

Packet Tracer Know How Series

Course Overview

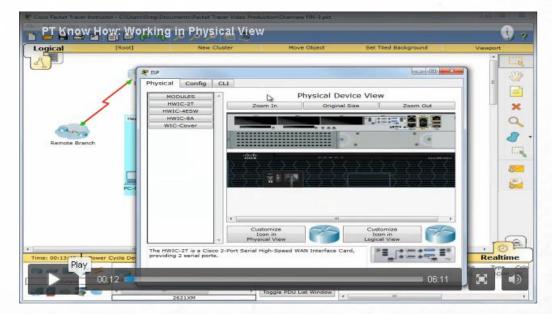
The Packet Tracer Know How Series is designed for new users of Packet Tracer for self-study and familiarization with the tool used in many Networking Academy courses. Packet Tracer courses are available for the desktop and for mobile. (Android and iOS).

Benefits

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.

Learning Components

- Files and demos
- Hands-on learning activity
- Video Recordings
- Quiz



Features

Target Audience: General audience

Prerequisites: None

Languages: English, French

Course Delivery: Instructor -led or Self-paced

Estimated Time to Complete: 1 hour

Academy Orientation Course



Academy Orientation 6.0 - Update

Course Overview

Academy Orientation provides new Networking Academy instructors, administrators, and other partners a broad overview of the Cisco Networking Academy program, the services and resources available, and how to use these resources and netacad.com effectively.

Prerequisites: None

Languages: English

Course Delivery: Instructor led at an ASC or self

paced

Estimated Time to Complete: 10 hours

Rationale

Completing the Academy Orientation Course can help instructors and administrators gain a strong understanding of the Networking Academy and feel more confident implementing the program.

6.0 Updates

- · References to netacad.com
- Updated course offerings
- Self-certification available
- Updated policies regarding requirements for offering courses

All new non-student users are encouraged to take the course

Notes

- Academy Support Advisors must be accredited to open the course
- Self-enroll link located in Global Instructor Resources community
- Course is recommended not required



Learning Components

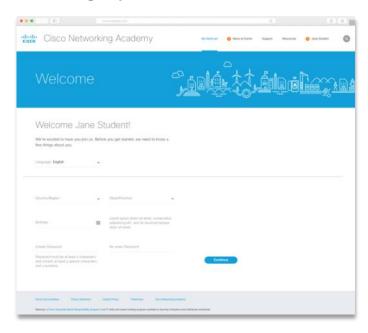
- 10 chapters
- Videos
- Links to netacad.com tutorials
- Quizzes

NetAcad.com Updates



I'M LEARNING STUDENT HOMEPAGE

Student Sign Up



Available Now!

Header

Prominent page identification, opportunity for CSR branding.

Work Area

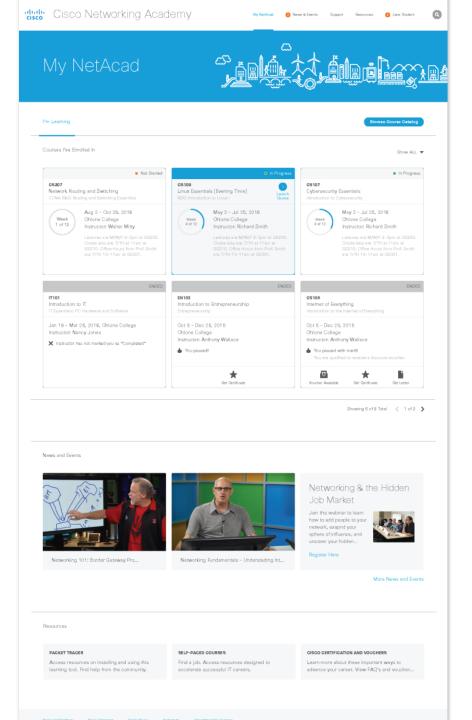
Main content provides easy access to the primary user goals and tasks. Different types of content are visually distinct.

Exploration

Role-specific marketing resources provide inspiration and connection with the larger community.

Resources

Role-specific resources allows access to rarely used functions and supplemental support material.



I'M TEACHING INSTRUCTOR HOMEPAGE

Header

Prominent page identification, opportunity for CSR branding.

Work Area

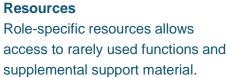
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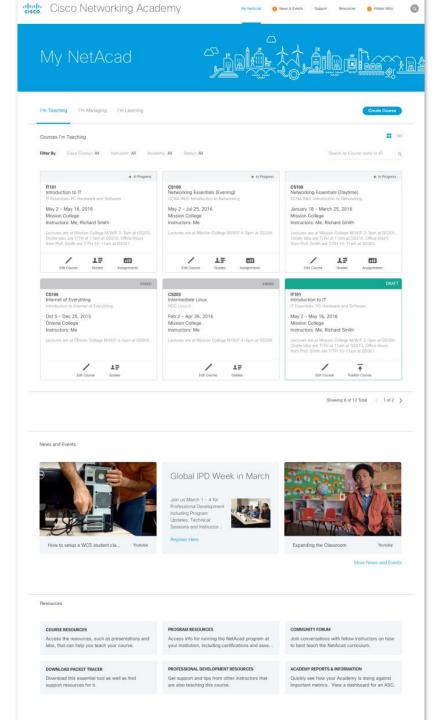
Exploration

Role-specific marketing resources provide inspiration and connection with the larger community.

Beta Available early Role

October 2016





I'M MANAGING ADMINISTRATOR HOMEPAGE

Academy Information

A brief overview of the Academy contact, details, and various tasks managers need to perform related to their academy.

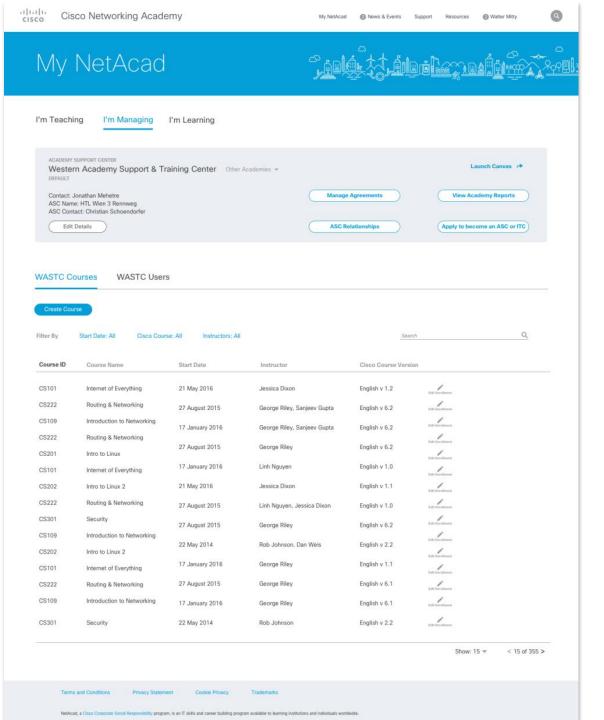
Academy Courses

A list of all courses offered at this Academy, including instructors who are qualified to teach those courses and when they were last offered.

Academy Users

Managers can filter and sort a list of all users. They can also manage user roles, reset passwords, qualify instructors, and other administrative tasks.

Beta Available November 2016



Mobility Fundamentals Series



Mobility Fundamentals Series

Series Overview

Starting with Wireless Technology Standards, the Mobility Fundamentals series teaches students about wireless and mobility technologies in the Digital Transformation Age.

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

Benefits

Builds foundational wireless and mobility technology career skills for current IT Essentials or CCNA R&S students interested in expanding their skills.

Learning Components

- Several modules of multimedia content
- Video recordings featuring Networking Academy instructors
- Activities that reinforce learning, including Cisco Packet Tracer activities
- Assessments, including module quizzes
- Certificates of completion for each module

cisco Cisco Networking Academy

Explosive Mobile Device Growth



Features

Target Audience: Upper secondary, 2-year and 4-year college students

Prerequisites: None

Languages: English

Course Delivery: Self-paced

Estimated Time to Complete: 1.5 hours each

Recommended Next Course: Complete the Mobility

Fundamentals Series

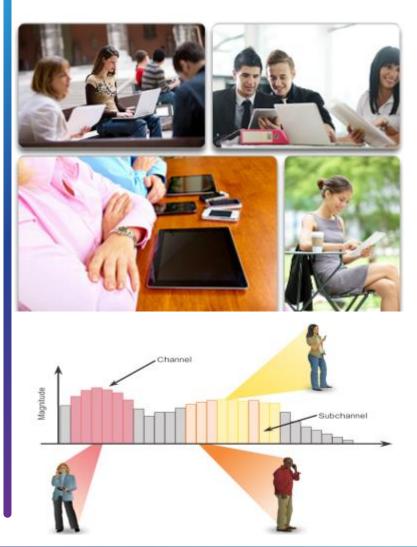
Wireless Technology and Standards



Explosive Mobile Device Growth

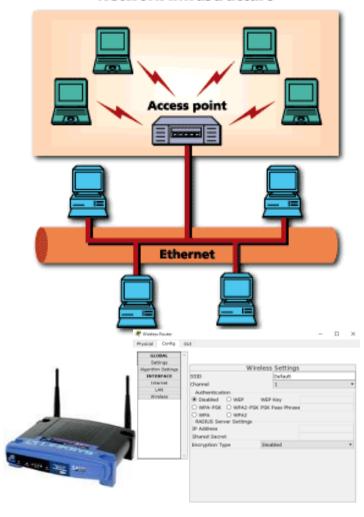


Wireless LAN Networks



Wireless Router and Clients Configuration

Network Infrastructure





Wireless LAN Security

Module 4:

William H. Wolfie explains the vulnerabilities and threats on a wireless LAN and the need for wireless LAN security. Threat mitigation technologies, authentication and encryption protocols necessary for security wireless LANs are also covered.

Learning Outcome

- Understand Wireless Threats and Vulnerabilities
- Understand Wireless Security Protocols for Authentication and Encryption
- Understand Mitigation Technologies
- Understand how to secure Enterprise Wireless LANs
- 1.5 hour content / video recording
- Quiz

Hackers/Criminal



"War Driving"

Thanks to contributor:



William H. Wolfe (US)



Intro to Cybersecurity



Introduction to Cybersecurity

Course Overview

The Introduction to Cybersecurity course explores cyber trends, threats and staying safe in cyberspace, and protecting personal and company data.

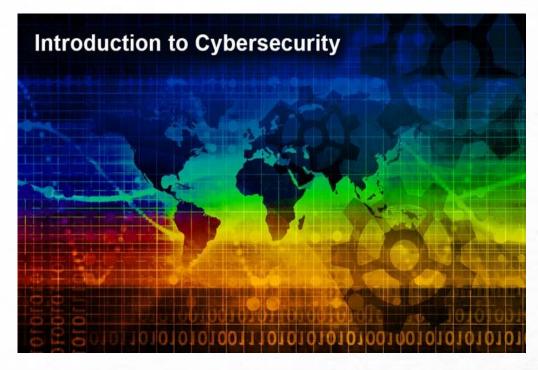
Benefits

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.

Learning Components

- 5 modules
- Interactive and instructional content
- 8 Activities and 7 lab exercises that reinforce learning
- 4 quizzes and 1 final exam
- Links to related resources





Features

Target Audience: Upper secondary and 2-Year college

students, general audience

Prerequisites: None

Languages: Chinese-S, English, German (Oct '16)

Course Delivery: Instructor -led or Self-paced

Estimated Time to Complete: 15 hours

Recommended Next Course: Cybersecurity Essentials,

releasing Fall 2016

Get Connected



Get Connected

Course Overview

Get Connected students are introduced to the Internet and experiment with various social networking sites. Talking characters and devices make this course a user-friendly environment for an audience new to IT.

Benefits

Get Connected teaches basic communication and collaboration technologies, essential skills for career advancement in today's global workforce.

Learning Components

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



Features

Target Audience: Secondary and general audience new to IT

Prerequisites: None

Languages: English, French, German, Italian, Portuguese-

BR, Spanish, Chinese-Simplified

Course Delivery: Instructor -led or Self-paced

Estimated Time to Complete: 30 hours

Recommended Next Course: IT Essentials

Be Your Own Boss Series for Instructor



Be Your Own Boss Series

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.

Benefits

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



Features

Target Audience: General audience

Prerequisites: None

Languages: English

Course Delivery: Instructor -led or Self-paced

Estimated Time to Complete: 8 hours

Recommended Next Course: Entrepreneurship

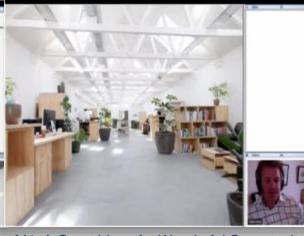
Be Your Own Boss Modules

Instructor-Facilitated version combines all modules into one course.



GPShoes





M4: A Great Idea of a Wonderful Opportunity? Questions to ask and research to conduct

Value of market research

M1: What is Technopreneurship?

Understand how to become a Technopreneur Identify the elements of Technopreneurship

M2: Imagine Like a Technopreneur

Discover how to put your creativity to work Learn how to generate creative ideas

Helped us focus

We chose to raise funding

from angel investors in

return for equity in the

focus - we wanted no distractions in finding our

on product

M3: Think Like an Technopreneur



Ensure you comply with the

Terminating Staff

Raised angel

funding early

unding product

sevelopment takes time and

a decent amount of money

Companies need to decide: either raise capital in return

for equity or run a consulting



Analyze business ideas to identify any flaws Develop valuable ways of thinking



Consult the employment

Treat the person with dignity

Design a business plan

M6: You and Your Business are Ready

Outline ways to test yourself, your team, your ideas, and the marketplace

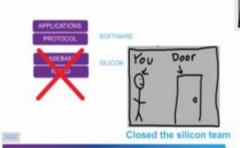
Determine small steps you can take that are achievable, measurable, and repeatable





M7: You, Your Business, and the Market Outline the elements of a business relationship Explain the elements of a business contract and customer service

Focus on software



M8: Do You Need to Change or Keep on Going? Evaluate the health of your business Explain how to assess your business in the marketplace

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M5: Protecting and Running Your Business

develop a business plan or grow a business

Summarize important questions used to

C++ Programming



CPA: Programming Essentials in C++

- Curriculum developed by C++ Institute
- Course free of charge to students, instructors and academies
- Instructor-led online curriculum
- Aligns with C++ Certified Associate Programmer certification
- Targeted to entry-level IT professionals
- No previous programming knowledge required



CPA: Programming Essentials in C++

Course Overview

Prepares student to accomplish coding tasks related to the basics of programming in the C++ language and the fundamental notions and techniques used in object-oriented programming.

Benefits

Builds the skills you need for entry-level programming career opportunities and to succeed in jobs related to software development, network engineering and system administration. Aligns with CPA – C++ Certified Associate Programmer Certification

Learning Components

- Eight modules of interactive instructional content
- More than 100 practice labs
- Chapter and Final exams



Features

Target Audience: Upper secondary, 2-year and 4-year

college students

Prerequisites: None

Languages: English

Course Delivery: Instructor-led

Estimated Time to Complete: 70 hours

Recommended Next Course: IoT Fundamentals, CCNA R&S,

NDG Linux Essentials

CPA: Programming Essentials in C++ Target Audience

New and existing NetAcad students:

- Students in upper secondary schools, technical schools, and colleges or universities who want to learn the fundamentals of programming using the C++ language
- Students and alumni who want to pursue a career in IT and are looking to gain or expand in-demand, employable skills

Audience	Aptness
High School	√
Vocational Schools	√ √
College	√√√
University	√

C++ Programming Essentials Instructor Requirements

- No instructor training or skill test is required to teach the C++ Institute courses.
- Recommendations

Academic institutions provide quality instructors and facilities

Instructors study the course material

Take the CPA – C++ Certified Associate Programmer Certification prior to teaching the class so that they become familiar with the exam structure and know how to prepare their students for it.



Linux Courses



What are the Linux courses?

Developed, offered and supported by NDG
 Also provides access to Linux VMs



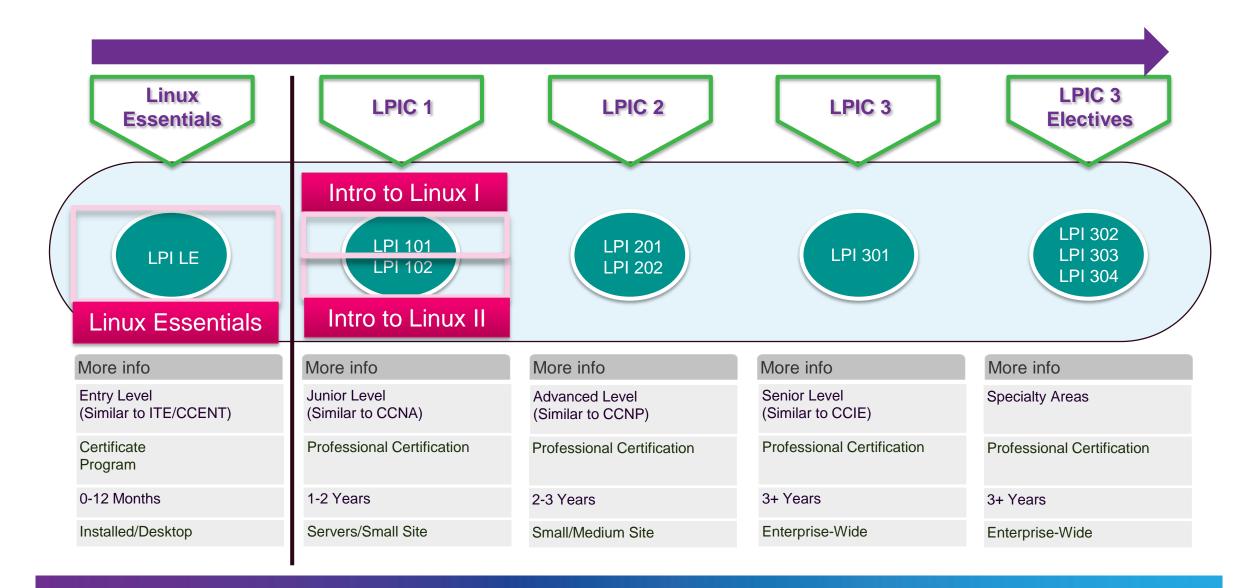
Available to Cisco Networking Academy
 Through Cisco NetSpace as an instructor-led course



Aligned to LPI.ORG Linux Essentials Certificate
 https://www.lpi.org/linux-certifications/entry-level-credential/linux-essentials



Certification alignment



NDG Linux Essentials

Course Overview

The Linux Essentials course, developed by Networking Academy partner NDG, teaches 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.

Benefits

Learn 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.

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





Features

Target Audience: Upper secondary and 2-year college

students

Prerequisites: None

Languages: English

Course Delivery: Instructor -led or Self-paced

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNA R&S Introduction to

Networks

NDG Linux

Curriculum Overview

The NDG Linux curriculum, developed by Networking Academy partner NDG, is a 2-course series for aspiring Linux system administrators.

Students develop proficiency in performing maintenance tasks on the command line, installing and configuring a computer running Linux, and configuring basic networking, using virtual machines running Linux.

Features

Career Prep

NDG Linux curriculum prepares you for careers in cloud computing, cybersecurity, information systems, networking, programming, software development, big data, and more.

Aligned with two certifications: Linux
Professional Institute LPIC-1 Certification
and CompTIA Linux+ powered by LPI
Certification.

Learning Components

- 2 semester -long courses: NDG Linux I, NDG Linux II
- More rigorous than Linux Essentials
- Built-in virtual machine to experiment with Linux commands
- · Hands-on labs and activities
- Chapter, midterm and final exams

Target Audience: 2-year and 4-year college students

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

Languages: English

Course Delivery: Instructor-led and Self-paced

Fee: \$39.95 USD per learner, per course

Estimated Time to Complete: 140 hours



Pricing to Cisco Networking Academies for NDG courses

NDG Linux Essentials Instructor Led Training

Free



NDG Introduction to Linux I aligned to LPIC-1 / Linux+

 Course for first certification exam

\$ 39.95

 NDG Introduction to Linux II aligned to LPIC-1 / Linux+ Course for second certification exam \$ 39.95

Linux Courses Instructor Requirements

- NDG requests that:
 - academic institutions provide quality instructors and facilities instructors study the course material instructors consider taking Linux Essentials professional development certificate
- No instructor training or skill test is required to teach Linux Courses



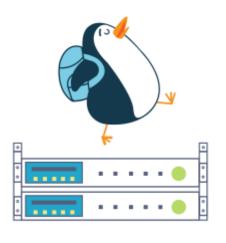
NDG Linux Unhatched



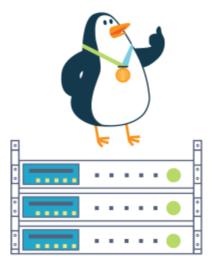
NDG Linux Courses



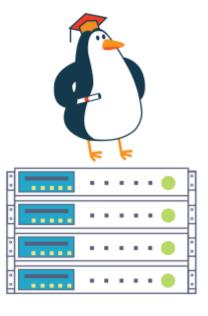
NDG Linux Unhatched



NDG Linux Essentials



NDG Linux I



NDG Linux II

What's covered on the CompTIAA+ 900 series

Basic Linux Commands

- Is
- grep
- CC
- shutdown
- pwd
- passwd
- mv
- Cp
- rm
- chmod
- chown
- iwconfig/ifconfig
- ps
- su/sudo
- apt-get
- vi
- dd



2.0 Other Operating Systems and Technologies

Identify common features and functionality of the Mac OS and Linux operating systems.

· Best practices

- Scheduled backups
- Scheduled disk maintenance
- System updates/App Store
- Patch management
- Driver/firmware updates
- Antivirus/anti-malware updates

Tools

- Backup/Time Machine
- Restore/snapshot
- Image recovery
- Disk maintenance utilities
- Shell/Terminal
- Screen sharing

- Force Quit

Features

- Multiple desktops/Mission Control
- Key Chain
- Spot Light
- iCloud
- Gestures
- Finder
- Remote Disc
- Dock
- Boot Camp

Basic Linux commands

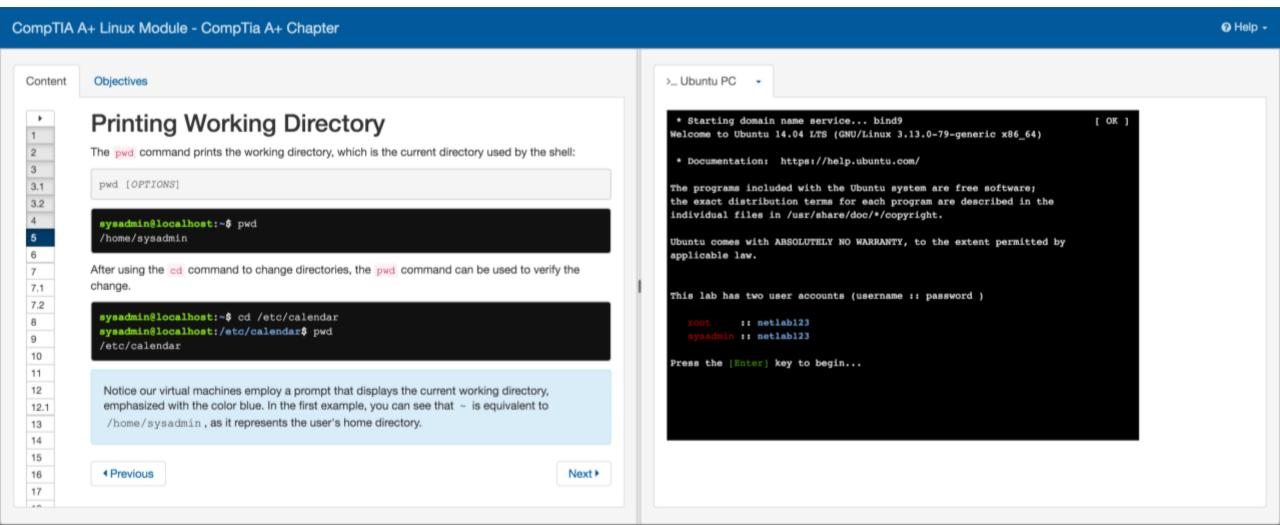
- -15
- grep

-cd

- -shutdown
- pwd vs. passwd
- mv
- -cp
- -rm
- -chmod
- -chown
- -iwconfig/ifconfig
- -ps
- -su/sudo
- -apt-get -vi
- -dd

Free module to teach basics of Linux aligned to A+certification.





Available in IT Essentials Course





cisco.

Available in IT Essentials Course



→ Course Completion	
Course Feedback	100 pts
→ Final Exam	Prerequisites: Course Completion
₹ Final Exam	100 pts
- Career Resources for NetAcad Alumni	
Career Resources for NetAcad Alumni	
→ NDG Linux CompTIA A+	
⊗ NDG Linux Module for CompTIA A+	

Internet of Things



IoT Foundation

"If you think that the internet has changed your life, think again. The IoT is about to change it all over again!"

— Brendan O'Brien, Chief Architect & Co-Founder, Aria Systems

Career Opportunities

The installation and operation type job families will continue to merge with networking job families. Knowledge in these areas will remain a great fit for entry level technology careers and career growth into more advanced roles.

Foundation for:

Field Technician, IoT Operations, IoT Security Operations.

Decide courses based on student starting point and learning goal:

Exploratory

- Intro to IoT
- Intro to Cybersecurity

Essential Skills

- CPA Programming Essentials in C++
- Networking Essentials

IoT Fundamentals

- Connecting Things*
- Big Data and Analytics*
- Hackathon Playbook*

Networking

CCENT certification





Introduction to IoT

Course Overview

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

Benefits

For students seeking an overview of trends, technologies, and career opportunities in the Internet of Things.

This course also serves as a foundation for CCNA-level courses.

Learning Components

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



Features

Target Audience: General audience

Prerequisites: None

Languages: Arabic, Chinese-S, Chinese-T, English, French, German, Italian, Japanese, Korean, 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

Planned

IoT Fundamentals:
 Big Data and Analytics



 IoT Fundamentals: Connecting Things



 IoT Fundamentals: Hackathon Playbook

> Workshoprunde 1 17.30 – 18.30 Hackathons Session OSZ IMT & IT-Bildungsnetz D416

Workshoprunde 3-4
Tomorrow 9.00 – 11.15
IoT Prototyping Workshop
Eugene Morozov
F112

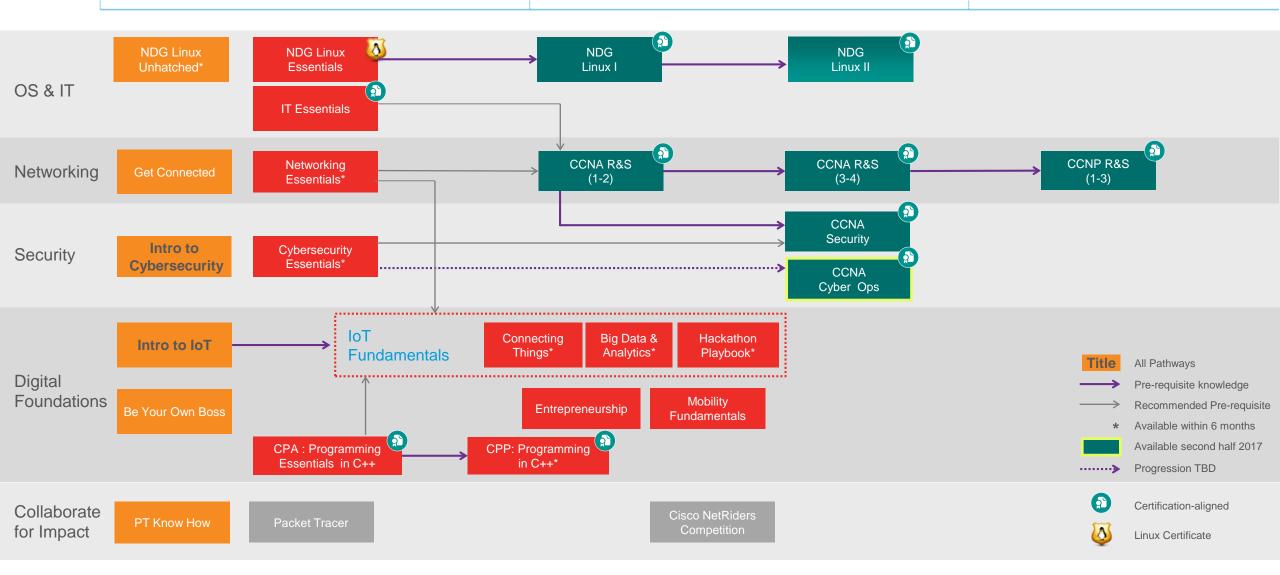


Sample Job Titles

- Technical Support
- IT Field Service Technician
- Help Desk Technician
- Mobile Application Support
- Network Support Technician
- Network Analyst

- Network Technician
- Support Engineer
- · Network Administrator
- Entry-Level Network Engineer
- Linux Administrator
- Cyber Ops Analyst

- Level II Network Engineer
- Network Designer
- · Security, Voice or Wireless Engineer



Collaboration and Professional Development



Global IPD Week

- Once per quarter
- Deep dives on NetAcad Offerings
- Updates on NetAcad
- Ran by the Technical team
- Open to all instructors
- Translated sessions



Next edition: 26-30 September

Focus on PT7.0



Danke.

CISCO Cisco Networking Academy
Mind Wide Open