Cisco Networking Academy
Mind Wide Open

Cisco Networking Academy a vzdělávání v oblasti bezpečnosti

Karol Kniewald

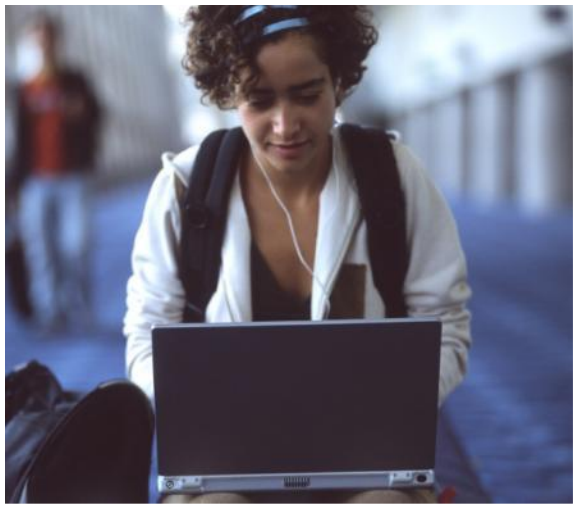
Territory Manager – Europe

GFO, Corporate Affairs

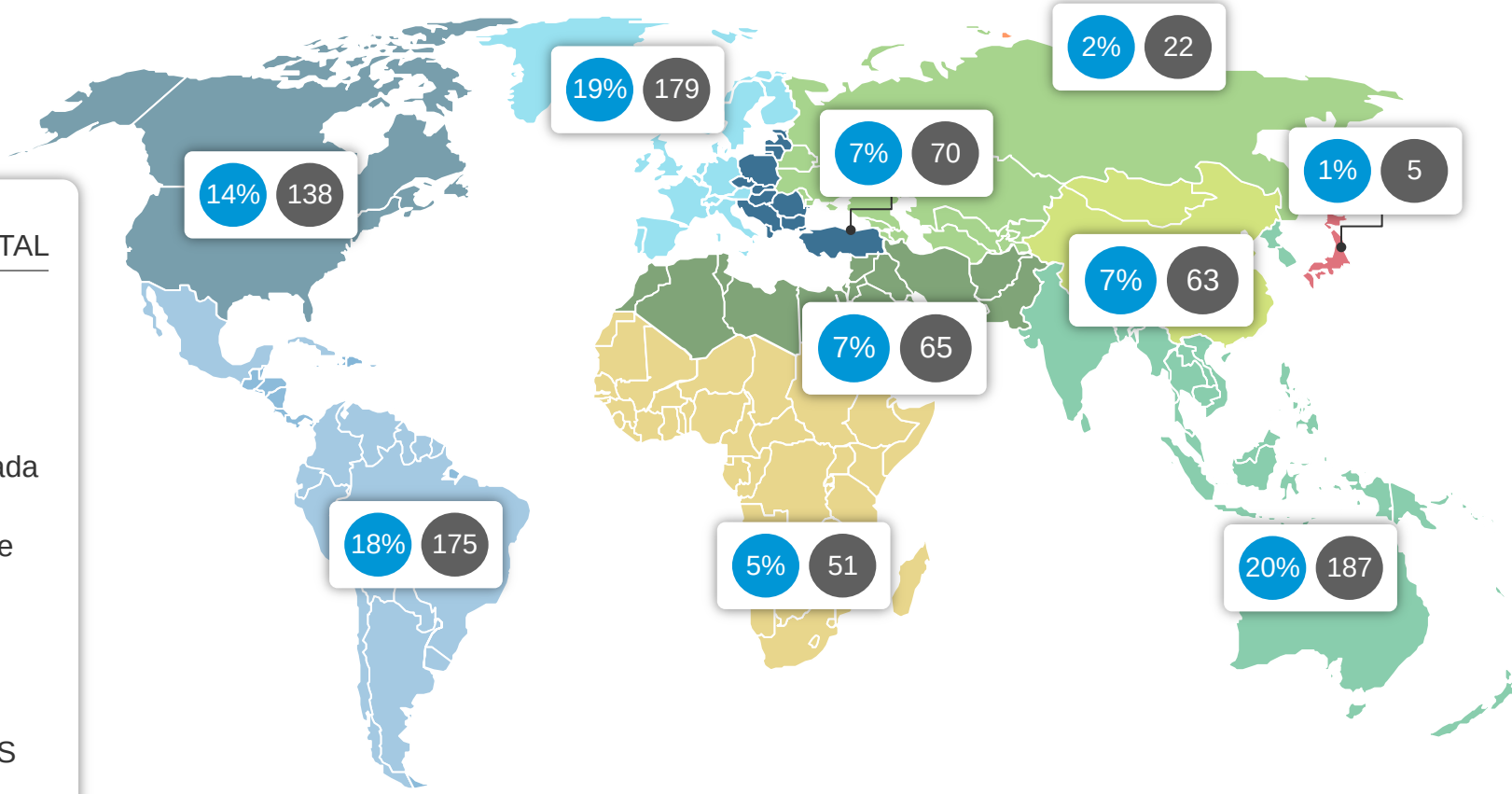
Cisco Systems

Networking Academy at a Glance

Comprehensive ICT Learning Experience	Globally Consistent, Locally Relevant	Innovative Teaching and Learning
Impact on Individuals, Communities, Education	Public Private Partnership Ecosystem Approach	Proven and Sustainable



Large and Global Presence
Currently 1 Million Students Worldwide



% OF GLOBAL TOTAL

20%	APAC
19%	Europe
18%	Latin America
14%	U.S. and Canada
7%	Central and Eastern Europe
7%	Middle East
7%	Greater China
5%	Africa
2%	Russia and CIS
1%	Japan

STUDENTS BY REGION (1,000,000 Worldwide)

% of Worldwide Total as of July 31, 2013 — 100% — 1,000 — # of Students in thousands

Cisco | Networking Academy®
Mind Wide Open™

The World's Largest Classroom

Networking Academy Impact Since 1997

COUNTRIES WORLDWIDE
170

INSTRUCTORS WORLDWIDE
20,000

STUDENTS WORLDWIDE
4.2 Million +

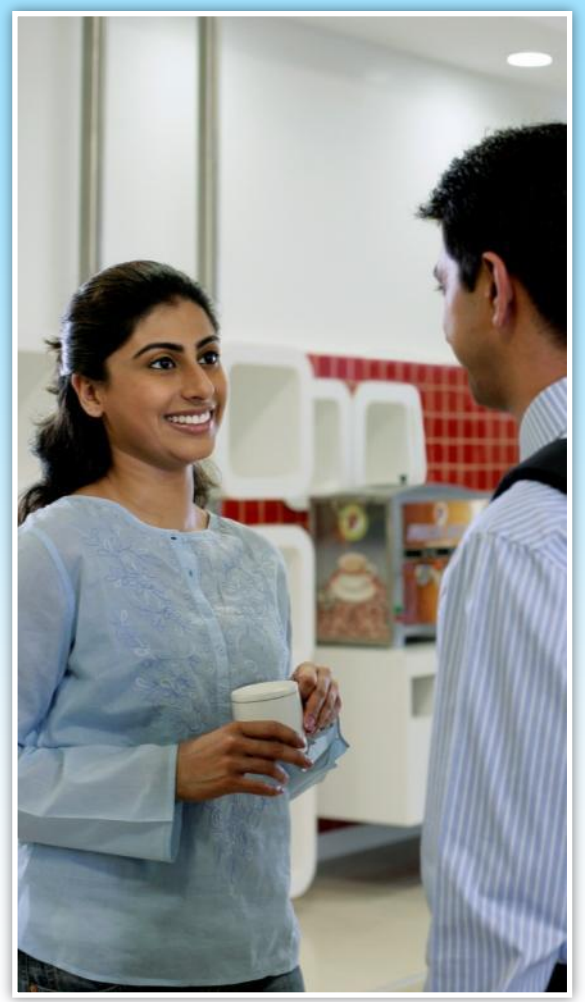
ONLINE EXAMS TAKEN
100 Million +

ACADEMIES WORLDWIDE
9,000

LANGUAGES
19

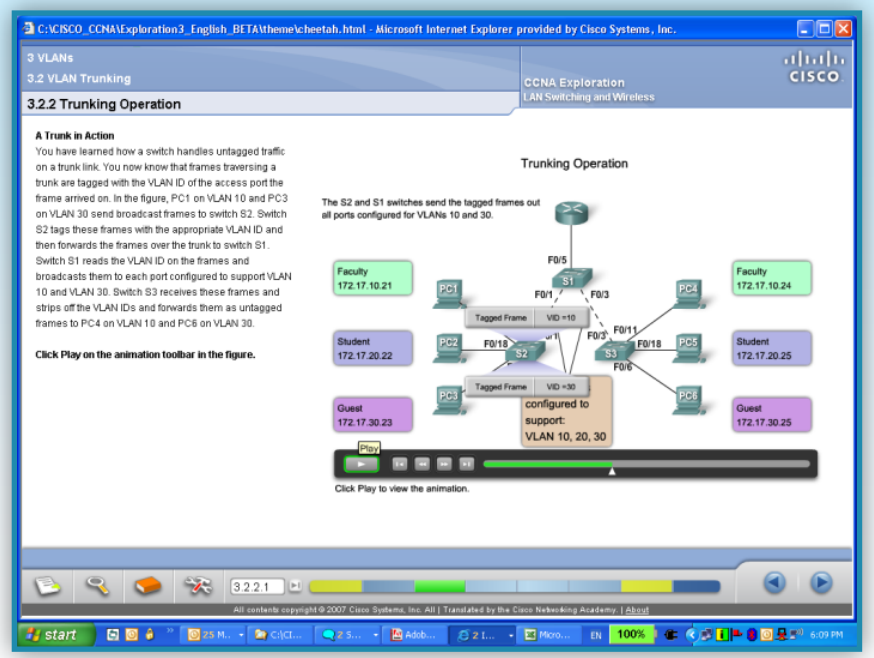
What Networking Academy Provides
A Turnkey Solution for Educators

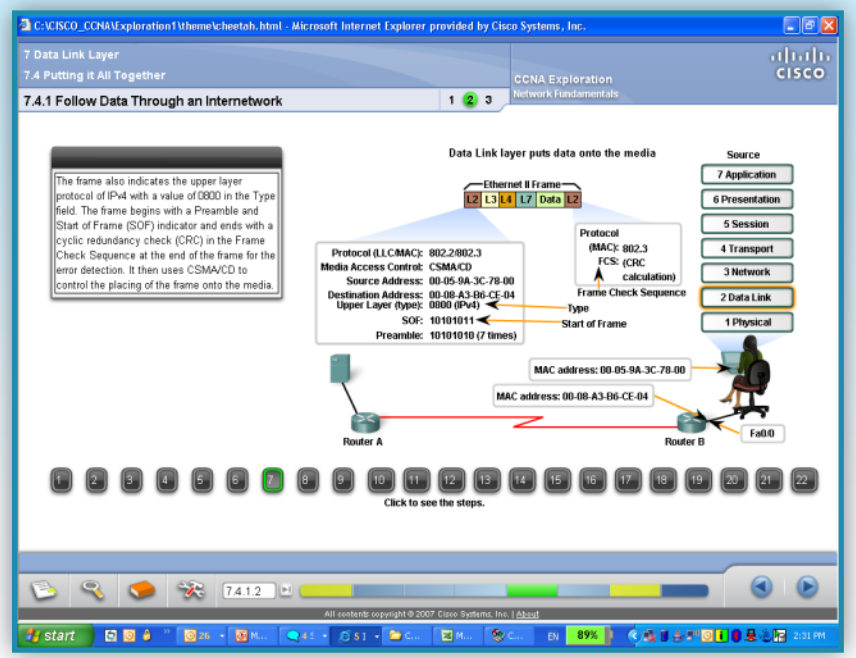
- High quality curriculum and learning tools
  - Available free to non-profit educational institutions
- Discounts on Cisco equipment and certification exams
- State of the art online assessments
  - Including quizzes, chapter and final exams, and simulation-based skills exams
- Learning management system
  - Classroom management, integrated grade book, teaching resources
- Instructor support, training, teaching resources, and on-going professional development
- 24x7 online support in multiple languages
- Online instructor collaboration communities
- Alumni program and student resources



Online Curricula

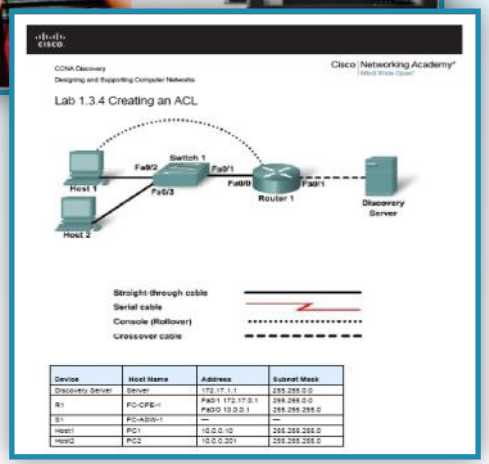
Courses with Embedded Rich Media Learning Activities

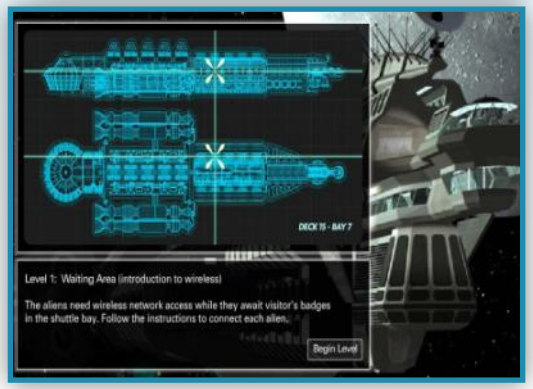




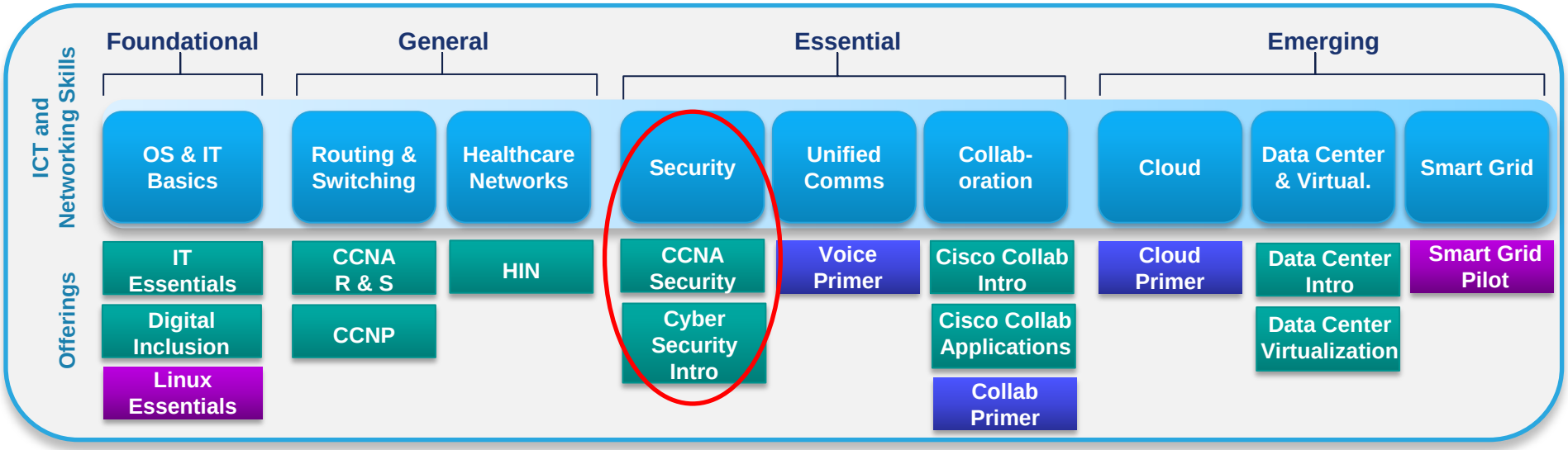
Hands-On Labs and Interactive Activities

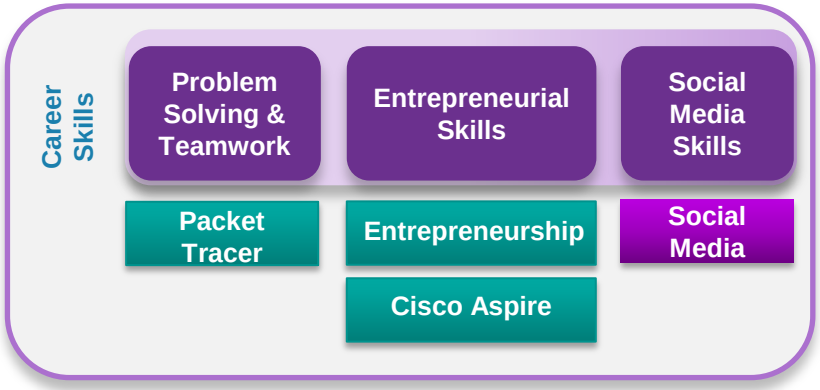
Practical Application of Learned Skills | Integrated into the Online Curriculum





Networking Academy extended portfolio





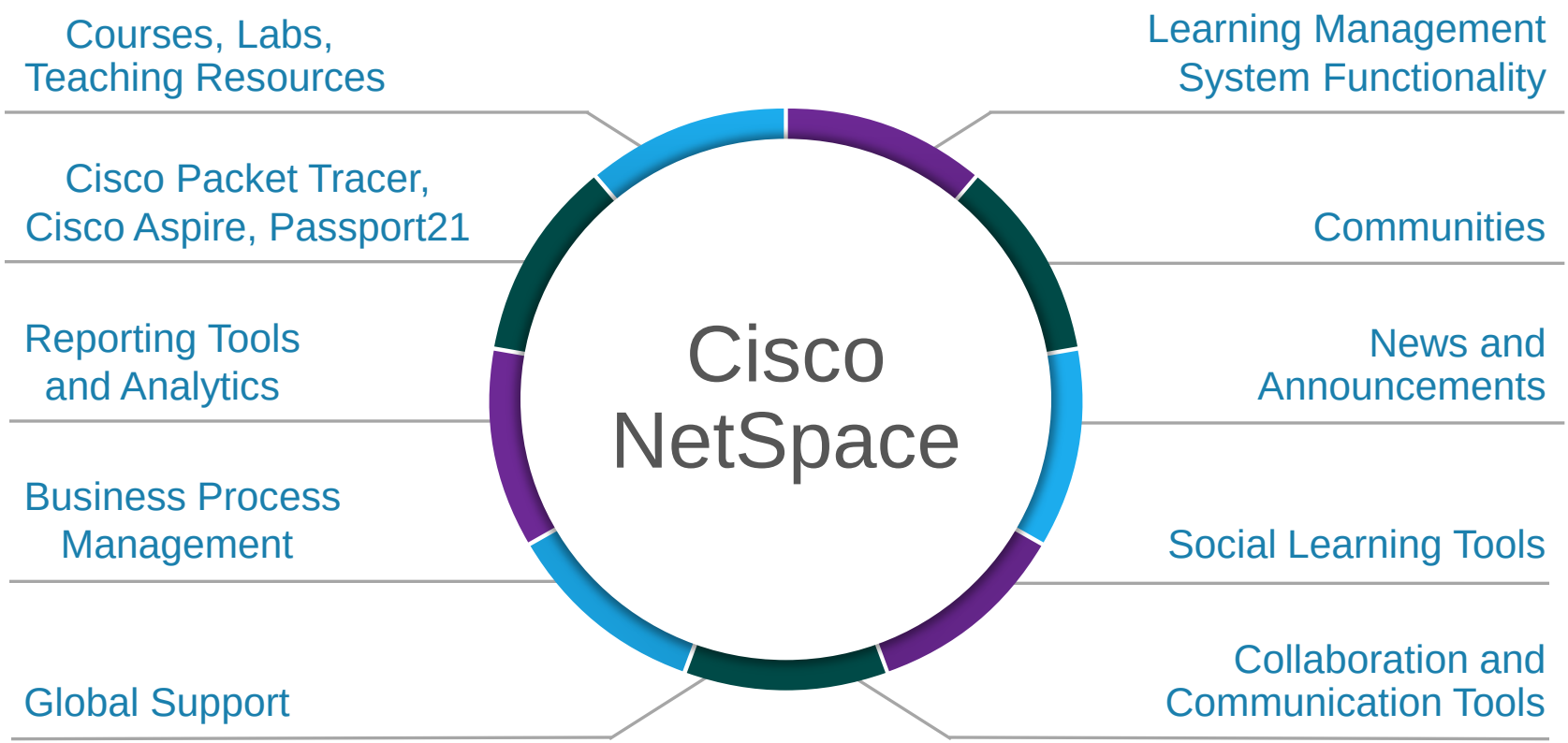
Offerings > Certification Alignment:

ITE > CompTIA A+
CCNP > CCNP
CCNA R&S (courses 1 & 2) > CCENT
CCNA Security > CCNA Security
CCNA R&S (courses 3 & 4) > CCNA R&S

Cisco NetAcad Branded | Community "Branded" | Partner Branded

Cisco NetSpace LMS

NetSpace Delivers a Total Solution



Makes Teaching Easier, More Productive

Add Your Own Content

Rich content editor allows you to easily add docs, embed videos, audio, photos, and links to NetAcad courses

Mobile Access

Stay productive anytime, anywhere with mobile access to grading, class calendar, and collaboration tools

LMS Content Migration

Easily migrate content you've already created in Blackboard, WebCT, Angel, and others to customize NetAcad courses

Reporting and Analytics

Rich data and analytics to help monitor and report on student outcomes and academy quality and success

Flexible Pedagogy

Built-in customization, collaboration, and communication tools support a variety of teaching styles

Communities

Collaborate with your peers in communities of interest—find, create, and share information in forums, files, and blogs

Engaging Classroom Learning Experience

Web 2.0 Services

Integrated Web 2.0 services so students and instructors have tools they already know and use daily

Groups

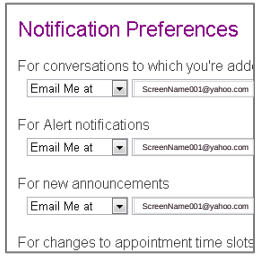
Easily form groups for class assignments, teams, study groups, or extra credit projects

Integrated Class Calendar

Drag and drop events into a single calendar with automatic notifications for changes—subscribe with Google Calendar, iCal, or Outlook

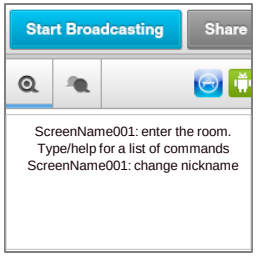
Submit Assignments Online

Allow assignments to be submitted online in a variety of formats: webpages, docs, videos, audio, slide shows



Communication Preferences

Receive class alerts and notifications via email, Facebook, or text message

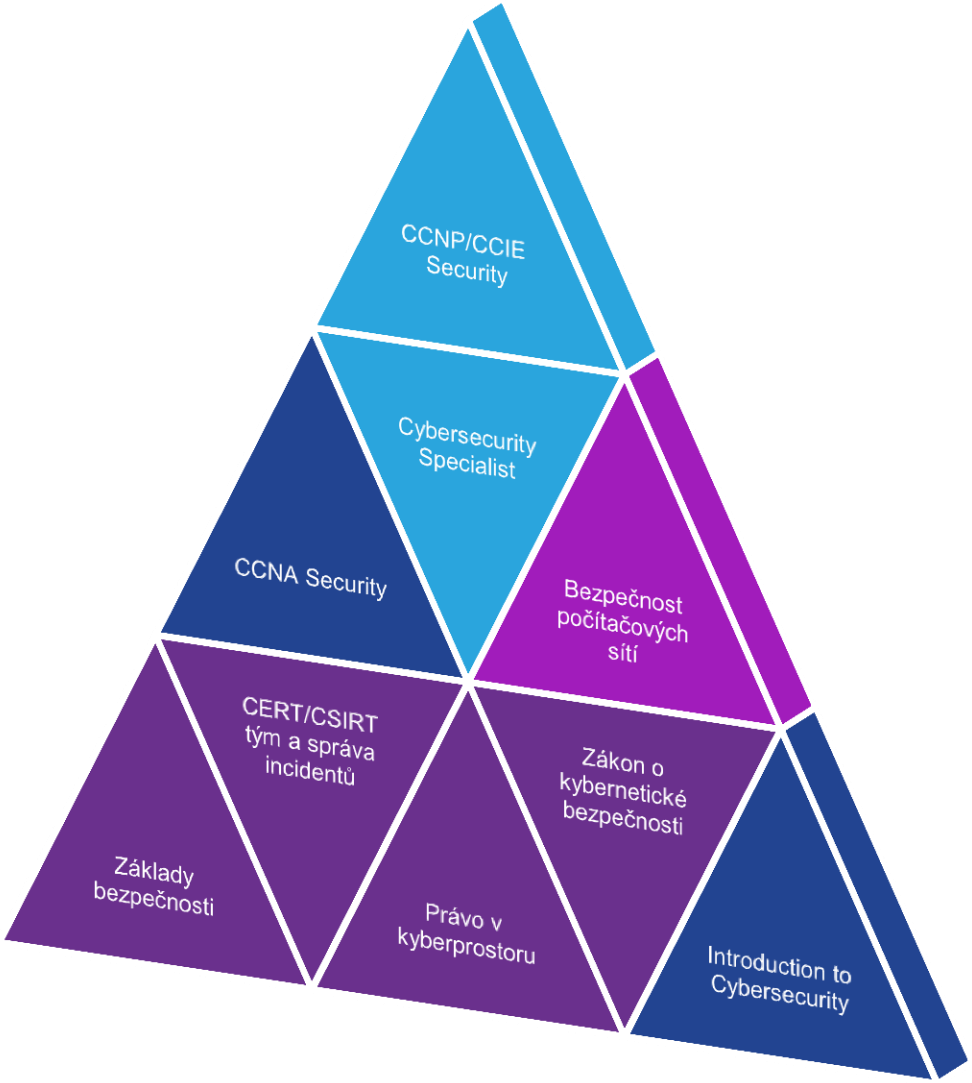


Chat/Video/Audio

Built-in video, live chat, and audio bring an extra dimension to the learning experience

Cyber/Security Courses

Cyber/security course portfolio



Cisco Professional Certification Matrix

Certification Tracks	Entry	Associate	Professional	Expert	Architect
Collaboration				CCIE Collaboration	
Data Center		CCNA Data Center	CCNP Data Center	CCIE Data Center	
Design	CCENT	CCDA	CCDP	CCDE	CCAr
Routing and Switching	CCENT	CCNA Routing and Switching	CCNP Routing and Switching	CCIE Routing and Switching	
Security	CCENT	CCNA Security	CCNP Security	CCIE Security	
Service Provider		CCNA Service Provider	CCNP Service Provider	CCIE Service Provider	
Service Provider Operations	CCENT	CCNA Service Provider Operations	CCNP Service Provider Operations	CCIE Service Provider Operations	
Video		CCNA Video			
Voice	CCENT	CCNA Voice	CCNP Voice		
Wireless	CCENT	CCNA Wireless	CCNP Wireless	CCIE Wireless	

Nabídka kurzů v Networking Academy

Komunitní kurzy (ČR)

- Základy bezpečnosti
- CERT/CSIRT tým a správa incidentů
- Právo v kyberprostoru
- Zákon o kybernetické bezpečnosti
- Bezpečnost počítačových sítí

Globální kurzy

- Introduction to Cybersecurity
- CCNA - Security

Komunitní kurzy (pro ČR)

Kurz: Základy bezpečnosti

- určeno pro všechny kategorie posluchačů
- školení v ČJ, materiály v ČJ, test v ČJ
- délka školení 8 hodin prezenčně + samostudium a test
- Obsah:

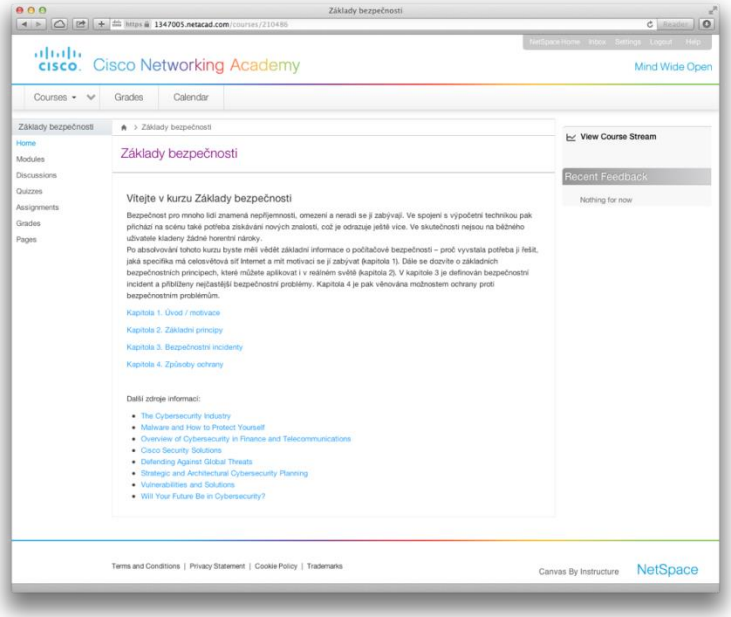
  specifika kyberprostoru

  základní principy bezpečnosti

  nejčastější bezpečnostní incidenty

  způsoby ochrany

  počítačová gramotnost jako nejlepší prevence



Kurz: CERT/CSIRT tým a správa incidentů

- určeno zejména pro IT pracovníky
- školení v ČJ, materiály v ČJ, test v ČJ
- délka školení 8 hodin prezenčně + samostudium a test
- Obsah:

  vznik a historie CERT/CSIRT týmů

  úloha CERT/CSIRT, služby, pole působnosti

  postupy zvládání a řešení incidentů

  zajištění provozu CSIRT

Kurz: Právo v kyberprostoru

- určeno pro všechny kategorie posluchačů
- školení v ČJ, materiály v ČJ, test v ČJ
- délka školení 8 hodin prezenčně + samostudium a test
- Obsah:
  - působnost práva v kyberprostoru
  - autorská práva, jejich porušování a ochrana
  - kybernetické trestné činy
  - kybernetické útoky
  - sociální sítě

Kurz: Zákon o kybernetické bezpečnosti

- určeno zejména pro management
- školení v ČJ, materiály v ČJ, test v ČJ
- délka školení 8 hodin prezenčně + samostudium a test
- Obsah:

  bezpečnostní incidenty a jejich dopad

  formalizace - Zákon o kybernetické bezpečnosti

  motivace, cíle a role ZKB v oblasti zajištění bezpečnosti kyberprostoru v ČR

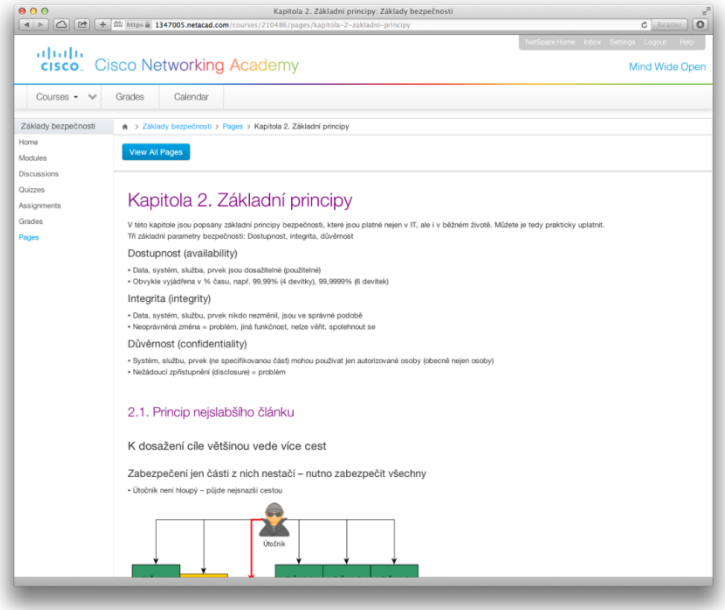
  výklad ZKB a doprovodných dokumentů (vyhlášky, prováděcí předpisy), oblast působnosti ZKB

  požadavky na subjekty v působnosti ZKB

  role národního a vládního CERT týmu dle ZKB

Kurz: Bezpečnost počítačových sítí

- určeno zejména pro IT pracovníky (základní znalost Cisco CLI)
- školení v ČJ, materiály v ČJ, test v ČJ
- délka školení 40 hodin prezenčně, zakončeno testem
- Obsah:
  - bezpečnostní hrozby
  - CiscoASA
  - firewall
  - Intrusion Detection System
  - monitoring provozu
  - LAN Bezpečnost
  - bezpečný přenos dat
  - bezdrátová bezpečnost



Partneři a autoři komunitních kurzů

Autoři kurzů:

- Jan Kolouch - PAČR, CESNET z.s.p.o.
- Michal Kostěnec - ZČU, CESNET z.s.p.o.
- Andrea Kropáčová - CESNET z.s.p.o.
- Aleš Padrta - ZČU, CESNET z.s.p.o.
- Michal Petrovič - ZČU, CESNET z.s.p.o., i-com-unity o.s.

Globální kurzy NetAcad

Introduction to Cybersecurity

- určeno pro všechny kategorie posluchačů
- školení v ČJ, materiály v EN, test v EN
- délka školení 5 hodin prezenčně, 20 hodin e-learning + samostudium a testy
- Obsah:
  - Cybersecurity Industry
  - Malware and How to Protect Yourself
  - Overview of Cybersecurity in Finance and Telecommunications
  - Cisco Security Solutions
  - Defending Against Global Threats
  - Strategic and Architectural Cybersecurity Planning
  - Vulnerabilities and Solutions
  - Will Your Future Be in Cybersecurity?

CCNA Security

Cisco | Networking Academy®
Mind Wide Open™

- určeno zejména pro IT pracovníky (prerekvizita CCENT)
- školení v ČJ, materiály v EN, test v EN
- délka školení 35 hodin prezenčně, 35 hodin samostudium, zakončeno testem
- Obsah:
  - Modern Network Security Threats
  - Securing Network Devices
  - Authentication, Authorization and Accounting
  - Implementing Firewall Technologies
  - Implementing Intrusion Prevention
  - Securing the Local Area Network
  - Cryptographic Systems
  - Implementing Virtual Private Networks
  - Implementing Cisco the Adaptive Security Appliance (ASA)
  - Managing a Secure Network

Forma kurzů, organizace a kontakt

- Integrováno do e-learning systému Cisco NetSpace
- Online studijní materiály a testy
- Tištěné pomocné materiály
- Možnost videokonference – Cisco WebEx
- Realizace školení v lokalitě dle domluvy
  nebo v některé z našich 80-ti Cisco akademií po celé ČR
- Pilotní běh komunitních kurzů 01/2015 až 02/2015
- Kurzy organizuje:

  i-com-unity o.s.

  kontaktní osoba: Ing. Michal Petrovič

  www.i-com-unity.cz

  studium@i-com-unity.cz


cisco

Introduction to Cybersecurity course

- Introduces the importance of Cybersecurity and current trends in industry
- Content organized in 7 modules that include presentations and panel discussions with industry experts
- Activities, videos and additional resources for students to explore
- Assessments include a pre-test, 7 quizzes, 1 final exam
- Students can self-enroll
- Available in English
- Estimated time to complete: 20 hours

Introduction to Cybersecurity course in details

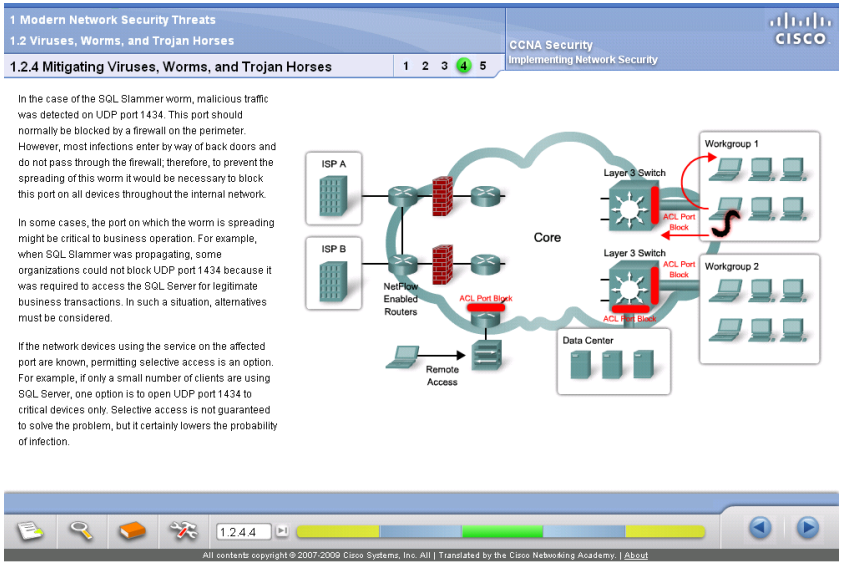
Objective / Value Proposition	• Raise awareness on the growing need for Cybersecurity specialists • Training a cybersecurity workforce is now a national priority for many countries, demand has grown 3.5 faster than any other IT job
Target Audience	• Students looking for an introduction to cybersecurity
Delivery Model	• Self-enroll course offered directly to NetAcad students through NetSpace • Available in English only • No student prerequisite and no instructor training • Estimated instructional hours: 20 hours
Offering Components	• Instructional framework • 8 modules of webinars and recordings and integration of community content
Cert Alignment	• None
Completion Requirements	• Student-activated course survey required to complete the course • Certificate of completion
Availability	• March 2014

Introduction to Cybersecurity course outline

Module		Goals
1	The Cybersecurity Industry	• Explain the importance of cybersecurity in the global economy • Explain why cybersecurity is a growing profession
2	Malware and How to Protect Yourself	• Explain the characteristics and operation of malware • Explain how hackers use unsuspecting individuals to propagate malware
3	Overview of Cybersecurity in Finance and Telecommunications	• Explain why cybersecurity is critical to the banking industry • Explain why cybersecurity is critical to the telecommunications industry
4	Cisco Security Solutions	• Explain Cisco's approach to cybersecurity • Explain the behavior-based approach to cybersecurity
5	Defending Against Global Threats	• Explain the characteristics of cyber warfare • Explain how Cisco Security Intelligence Operations (SIO) tracks and responds to a global threat
6	Strategic and Architectural Cybersecurity Planning	• Explain trends in the cyber threat landscape • Explain the framework of the Enterprise Security Architecture
7	Vulnerabilities and Solutions	• Explain why cybersecurity is critical to the medical devices industry • Explain the components of cloud security
8	Will Your Future Be in Cybersecurity?	• Explain the opportunities for pursuing network security certifications

CCNA Security course

- CCNA Security equips students with the knowledge and skills needed to prepare for entry-level security specialist careers
- Content organized in 10 chapters in full multimedia courseware format
- Hands-on labs, Packet tracer labs
- Assessments include 10 module exams, quizzes, 1 final exam
- Instructor-led course
- Available in English
- Estimated time to complete: 70 hours



CCNA Security course in details

Objective / Value Proposition	• CCNA Security provides an in-depth, theoretical, and hands-on introduction to network security, in a logical sequence driven by technologies.
Target Audience	• Students looking for entry-level security career opportunities and the globally recognized Cisco® CCNA Security certification
Delivery Model	• Instructor-led course offered directly to NetAcad students through NetSpace • Available in English only • Course prerequisite: requires CCENT level networking knowledge • Estimated instructional hours: 70 hours
Offering Components	• Full multimedia courseware format (10 chapters) • Hands-on labs, Packet tracer labs • Assessments include 10 chapter exams, quizzes, 1 final exam
Cert Alignment	• Cisco® CCNA Security certification
Completion Requirements	• Instructor-activated course final exam and hands-on skills exam • Certificate of completion
Availability	• 2010

CCNA Security Course Outline

Course Chapters and Goals	
Chapter 1	**Modern Network Security Threats** Goal: Explain network threats, mitigation techniques, and the basics of securing a network.
Chapter 2	**Securing Network Devices** Goal: Secure administrative access on Cisco routers.
Chapter 3	**Authentication, Authorization and Accounting** Goal: Secure administrative access with AAA.
Chapter 4	**Implementing Firewall Technologies** Goal: Implement firewall technologies to secure the network perimeter.
Chapter 5	**Implementing Intrusion Prevention** Goal: Configure IPS to mitigate attacks on the network.
Chapter 6	**Securing the Local Area Network** Goal: Describe LAN security considerations and implement endpoint and Layer 2 security features.
Chapter 7	**Cryptographic Systems** Goal: Describe methods for protecting data confidentiality and integrity.
Chapter 8	**Implementing Virtual Private Networks** Goal: Implement secure virtual private networks.
Chapter 9	**Managing A Secure Network** Goal: Create and implement a comprehensive security policy to meet the security needs of an enterprise.
Chapter 10	**Implementing the Cisco Adaptive Security Appliance (ASA)** Goal: Implement firewall technologies using the ASA to secure the network perimeter.