

Cisco Networking Academy

InforAberta

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Digitization

moving a company, city or country's entire operations, processes, and businesses onto a single digital operating model – transforming processes and business models



Digital Transformation

transformative outcomes achieved when organizations fully leverage the changes and opportunities of digital technologies and their impact across society



Digital Disruption

the change that occurs when new digital technologies and business models impact a company's value proposition and market position

Digitization Employment Opportunity Creation Analysis 2019-2023

General IT/Horizontal
Securing environments, creating strategy,
and ensuring usability

Leadership:

- Other Leadership (Business & IT)
- Leadership (CDO, CIO, CTO, CISO, CDiO, CAO)
- Chief Data Officer (CDO)
- Chief Digital Officer (CDiO)

Cross-Functional:

- Project Managers
- Product Manager

Functional Domain:

- Vendor Managers
- Supply Chain Managers

Security:

- Chief of Staff for Information Security
- Security Marketing and Communications
- Security Service Manager

Citizen
Personas

Citizen Personas:

- Citizen Data Scientist
- Citizen Developer

Note: Citizen Personas are not one of the 28 job roles, they are not roles and are treated as a separate category for this analysis

Digital-Related Job Functions and Roles

Analytics and Business Process

Collecting and analyzing data; creating efficient business processes, and improving product design

- Designers: UX/UI Specialists & Engineers, HMI Designers, Data Visualization Engineer
- Business Process Engineer
- Data Engineers
- Data Scientists
- Data Analysts
- Business Analysts

Application Development and Support

Designing, testing, and managing applications for IoT platforms & controllers, protocols and end device software

- Software Engineers
- Embedded Software Engineers

Infrastructure and Operations

Building, monitoring and maintaining infrastructure (network, compute, storage); integration with control systems and other enterprise applications, and device management

- Technical Administrators (network, compute, storage)
- Infrastructure Engineers
- Enterprise Architects
- Solutions Architect

Digital Security and Privacy

Securing IoT infrastructure, networks, applications, and devices

- Security Analyst
- Product Security Specialist
- Cyber Hunter

Note: Security as a job function is embedded in all roles to some extent. Also Security Architect is included in Domain Architects

Twenty-eight digital-related job roles are aligned to five general job functions, reflecting how companies acquire talent

Skills Required for a Digital Workforce

Specialized skills

Software development, Analytics & IoT, Networking, Security

Broad skills

Functional (analytical thinking), business oriented (business operations, product and project management, marketing, etc)

Critical workforce competencies

Business acumen, design thinking, critical thinking, adaptability, diversity mindset, risk taking, and more

Soft skills

Negotiation, persuasion, social perceptiveness, instructing others, coordination, service orientation

Cisco's Commitment to Skills Development

Cisco Networking Academy

Building IT skills and careers for
over 9 million students worldwide

Learning@Cisco

Transforming our 3 million Cisco
Certified community

DevNet

500,000+ developers



CyberSecurity Scholarship

Creating 10,000+ cybersecurity
operations analysts

IoT Talent Consortium

Driving IoT enabled digital
transformation for 1 million workers

SkillSET

WEF and IT Industry initiative to reskill
1 million non-technical workers in IT

Why Cisco?



Cisco Networking Academy

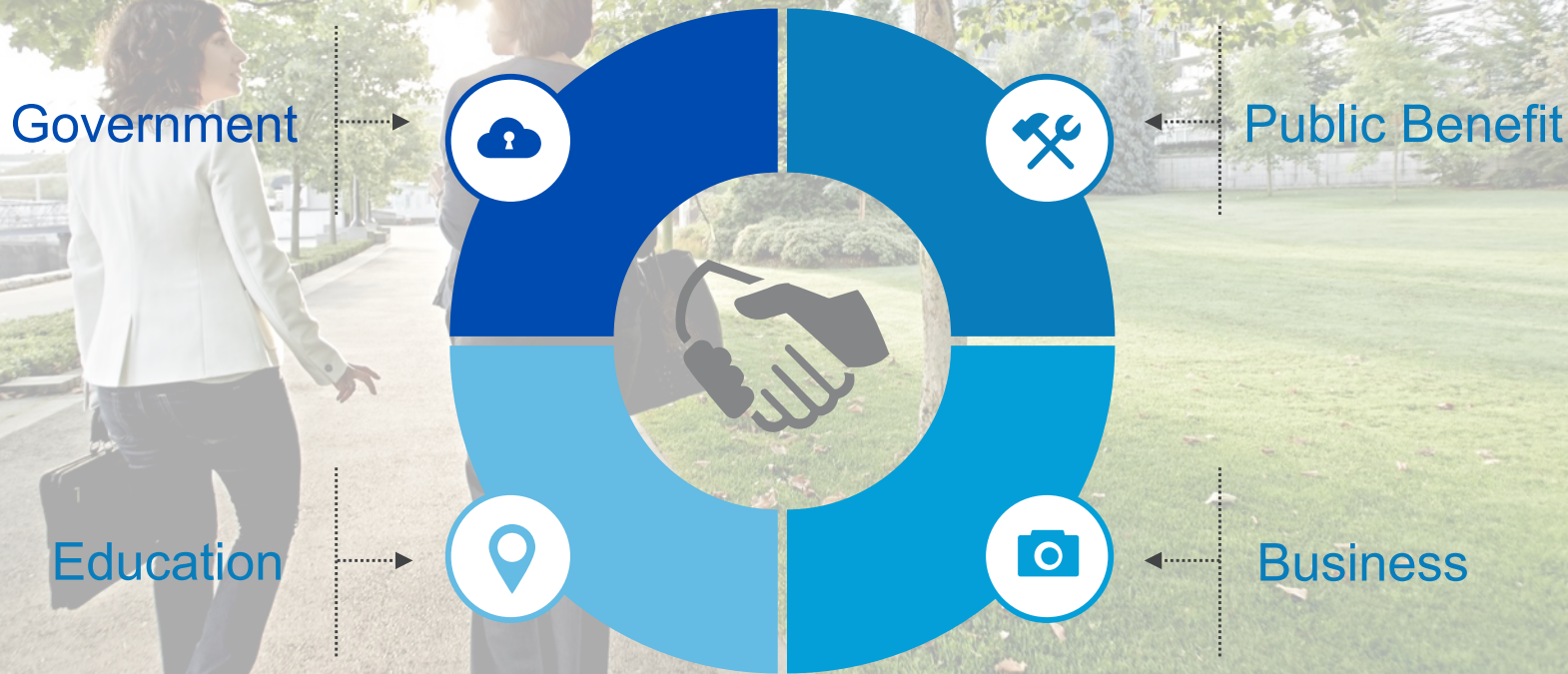
- Programa educativo que ajuda a fornecer competências Digitais relevantes
- Sem fins lucrativos
- Não orientado a qualquer produto da Cisco

NetAcad

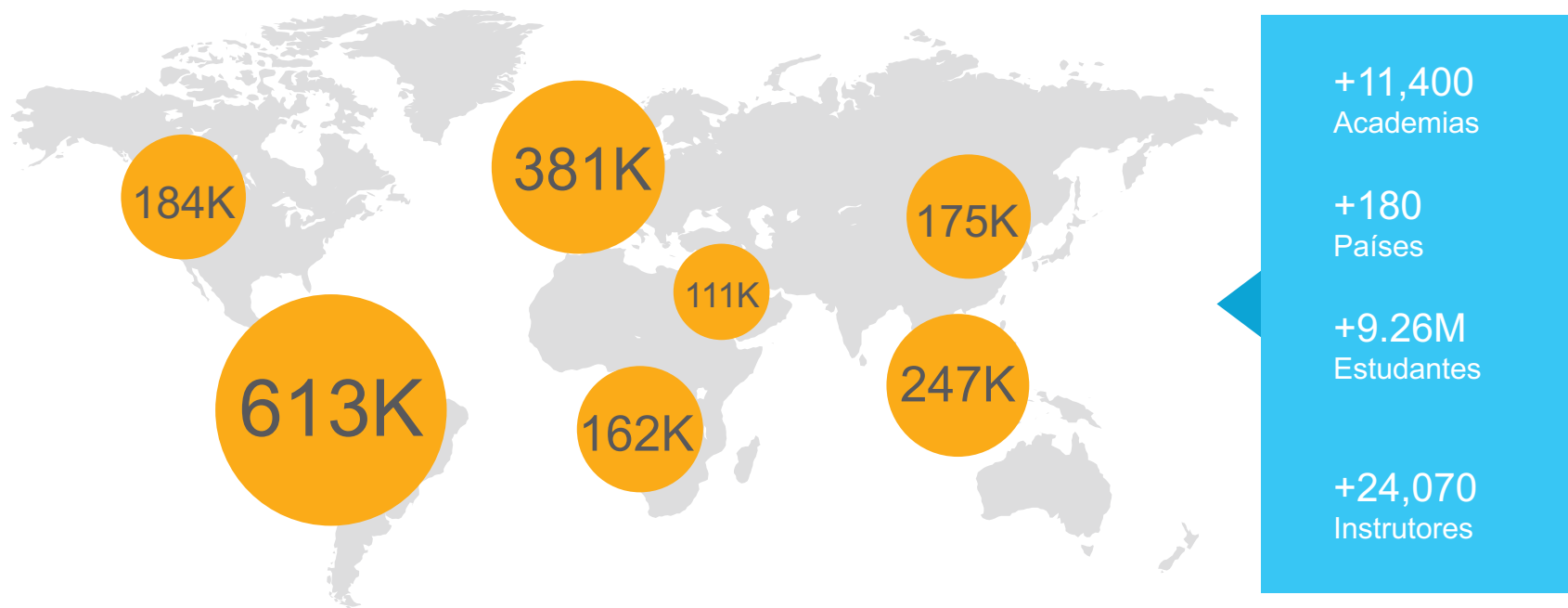
- Os cursos são disponibilizados em campus e online, através de uma plataforma de colaboração baseada na *cloud*
- Estudantes de diversos níveis de educação ganham experiência prática, adquirem conhecimentos genéricos relevantes e também úteis para carreiras Digitais

Parcerias Público-Privadas

Juntos para assegurar os melhores resultados para os estudantes



NetAcad no Mundo



+1.87M Currently Enrolled Globally

Preparing people for IT careers since 1997

Impacto em Portugal

- 38,000+** Estudantes desde o início (1999)
- 3,600+** Estudantes Participantes 2019-18
- 12%** Estudantes Sexo Feminino
- 120+** Academias Cisco
- 100+** Instructores
- 10M€** Contribuição em género desde o lançamento do programa

NetAcad fornece

1. Currícula de grande qualidade (que não é específico para nenhum produto) e ferramentas de aprendizagem
2. Descontos em equipamento* e exames de certificação* da Indústria
3. Formação de Instrutores, comunidades de suporte, desenvolvimento profissional

NetAcad fornece

- 4. Recursos formativos online para professores
- 5. Grelhas de avaliação, simulações, questionários e exames
- 6. Suporte online gratuito para Instrutores e estudantes 24x5

Opções de Disponibilização de Cursos

Liderado pelo Instrutor

Cursos ensinados por um Instrutor em modo presencial ou misto, combinando sessões presenciais com ensino à distância, ou puramente à distância

Auto-aprendizagem

Cursos online, permitindo auto-registo de estudantes que podem fazer o curso sem esperar ser ensinado(a) por um Instrutor. Esta opção inclui *podcasts*.

Benefícios para Estudantes

- Instrutores experimentados
- Cursos rigorosos *online*, frequentemente actualizados para se manterem relevantes
- Instrução individual e estudo independente
- Avaliação contínua e *feedback* personalizado

Benefícios para Estudantes

- Experiência prática/laboratorial individual e em grupo
- Preparação para certificações reconhecidas pela Indústria
- Preparação para carreiras

Experiência de Aprendizagem

Desenvolvendo interesse e competências através do *portfolio* de cursos



Colaboração para Impacto

Contribuir para o processo criativo e inovativo
Sintetizar competências para resolver problemas reais



Exposição



Educação



Experiência

Portfolio de Aprendizagem



Aligns to Certification



Instructor Training required



Self-paced

Collaborate for Impact				
Introduction to Packet Tracer	Packet Tracer	Hackathons	Prototyping Lab	Internships
Exploratory		Foundational		Career-Ready
Networking Security IoT & Analytics OS & IT Programming Business Digital Literacy		Networking Essentials Mobility Fundamentals Emerging Tech Workshop: Network Programmability Using Cisco APIC-EM	CCNA R&S: Introduction to Networks, R&S Essentials, Scaling Networks, Connecting Networks CCNP R&S: Switch, Route, TShoot	
	Introduction to Cybersecurity	Cybersecurity Essentials	CCNA Security CCNA Cybersecurity Operations	
	Introduction to IoT	IoT Fundamentals: Connecting Things, Big Data & Analytics, IoT Security Hackathon Playbook		
	NDG Linux Unhatched	NDG Linux Essentials IT Essentials	NDG Linux I NDG Linux II	
		CLA: Programming Essentials in C CPA: Programming Essentials in C++ PCAP: Programming Essentials in Python Emerging Tech Workshop: Experimenting with REST APIs using WebEx Teams	CLP: Advanced Programming in C CPP: Advanced Programming in C++	
	Be Your Own Boss	Entrepreneurship		
	Get Connected			



Introduction to Cybersecurity

Explores cyber trends, threats and staying safe in cyberspace, plus protecting personal and company data.

Delivery: Instructor-led or self-paced

Duration: 15 hours

Suitable for: Secondary and 2-year college students, general audience

Prerequisites: None

Instructor Training Required: None



Cybersecurity Essentials

Covers foundational knowledge and essential skills for all cybersecurity domains including information security, systems security, network security, ethics and laws, and defense and mitigation techniques used in protecting businesses.



Delivery: Instructor-led or self-paced

Duration: 30 hours

Suitable for: Secondary and 2-year college vocational students

Prerequisites: Introduction to Cybersecurity

Instructor Training Required: None

CCNA Security

Introduces core security concepts and skills needed to troubleshoot and monitor computer networks and help ensure the integrity of devices and data. Emphasizes practical application of the skills needed to design, implement, and manage network security systems.



Delivery: Instructor-led

Duration: 70 hours

Suitable for: Secondary vocational students,
2-year and 4-year college students in
Networking or Engineering

Prerequisites: CCNA R&S Introduction to
Networks, CCNA R&S Routing and
Switching Essentials

Instructor Training Required: Yes



CCNA Cyber Ops

Primarily focusing on networking security with regard to protecting existing networks, this in-depth course is designed to prepare students to sit the Cisco Cybersecurity Operations Certification exam.

Delivery: Instructor-led

Duration: 70 hours

Suitable for: 2 and 4-year college students

Prerequisites: None

Instructor Training Required: Yes

