

12:00 - 12:55



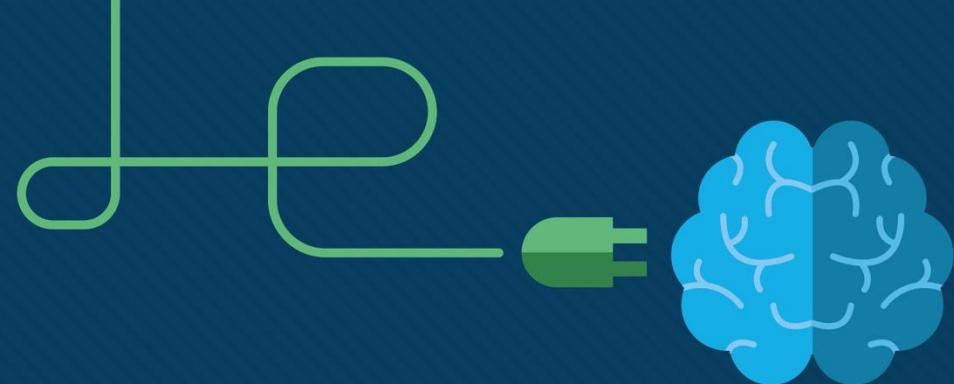
PONENCIA

Cisco Networking Academy

Digital disruption: Impulsando a la próxima generación de Global Problem Solvers

Karsten Simons, Strategic Operations Lead, Corporate Affairs Europe en Cisco Systems

David de San Benito, Responsable de Corporate Affairs en Cisco Iberia



The Digital Workforce

Digitization and a New Generation of Global
Problem Solvers.

Karsten Simons, Regional Manager Europe, CIS, Russia & Israel, Cisco

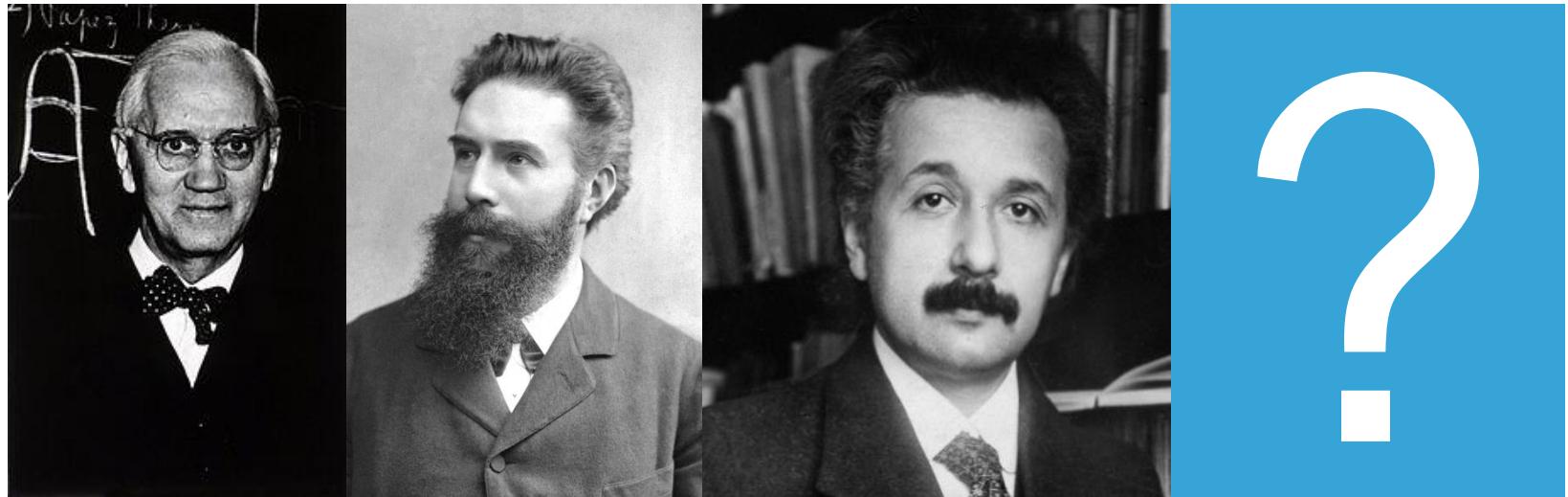
April 2017





Global Problem

olver



Changing the Way We Live & Do Business



Food & Grocery



Music & Mobile



Banking



Telecoms

Digitization

Moving a company's entire operations, processes, and businesses onto a single digital operating model – transforming processes and business models



Digital Transformation

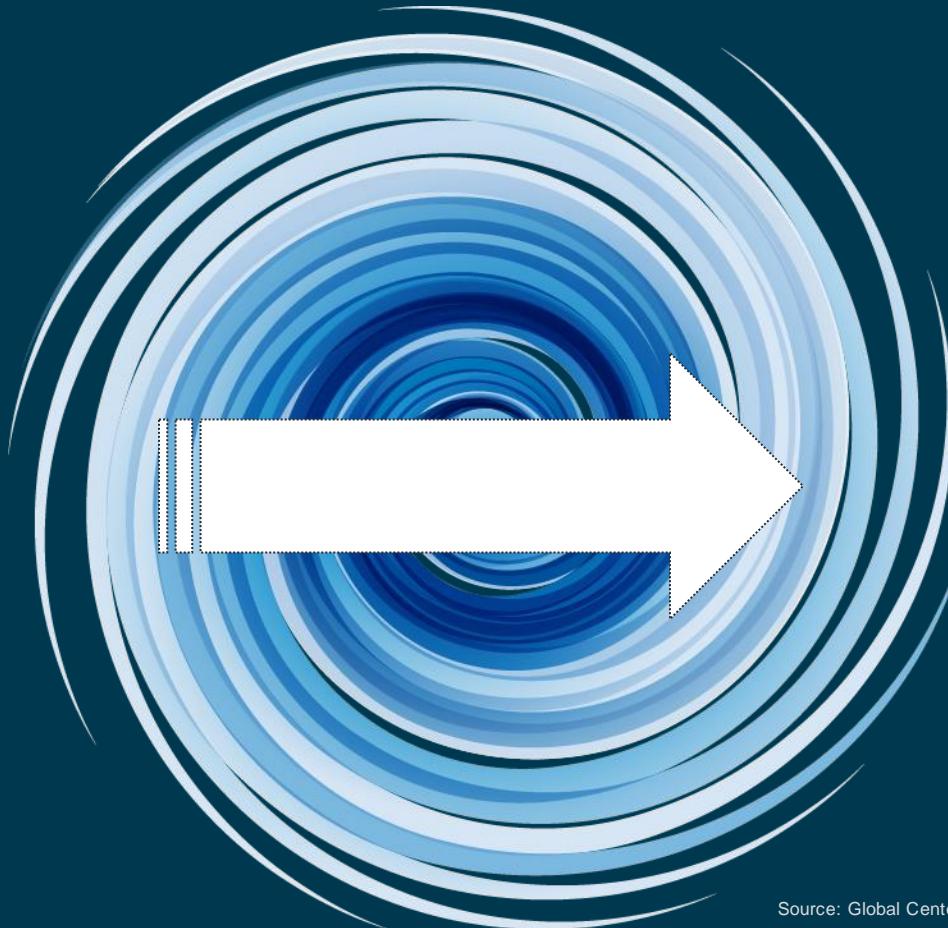
Transformative outcomes achieved when organizations fully leverage the changes and opportunities of digital technologies and their impact across society

Digital Disruption

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

Digital disruption
= critical and
accelerating
3 years

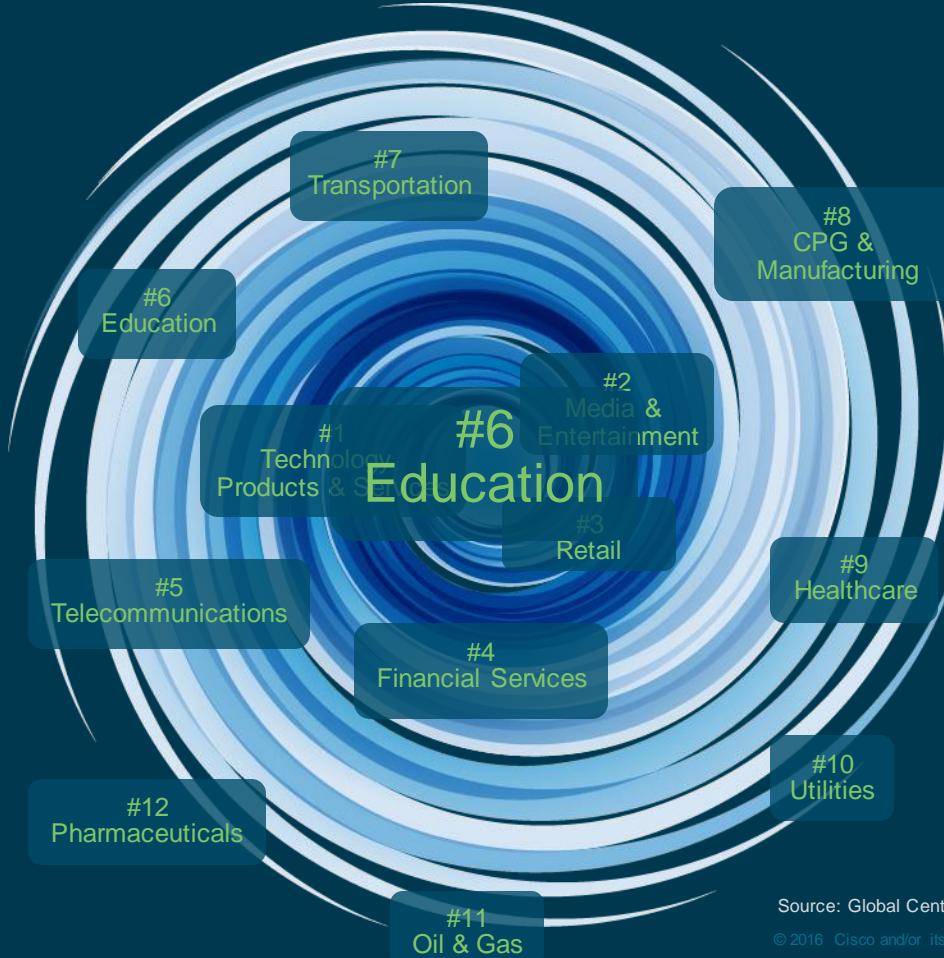
= Average
time to
disruption
+
Partnership with
IMD



Only 1 in 4
Global CxOs
feel Digital
Sufficiency
Transformation
(Data Center)
digitization

Source: Global Center for Digital Business Transformation, 2015

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Source: Global Center for Digital Business Transformation, 2015

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Massive Unemployment



70M+

Unemployed youth

Growing Skills Shortage



72%

Of CEOs concerned about
the availability of key skills

Unprecedented Opportunity



\$24T

Private sector value
add by 2024

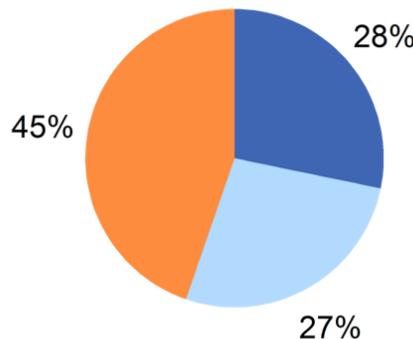
Human Capital: Digital Skills

In Spain 24% of citizens have basic digital skills (27% in the EU)
and 30% have above basic digital skills (28% in the EU)

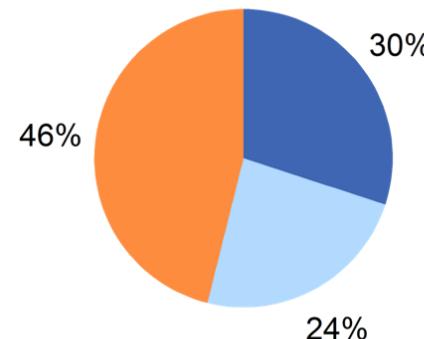
Digital Skills (2015)

■ Above basic digital skills ■ Basic digital skills ■ Low or no digital skills, or do not use the internet

EU



ES



% of individuals

Source: Eurostat - Community survey on ICT usage in Households and by Individuals



Digital Scoreboard 2016

10

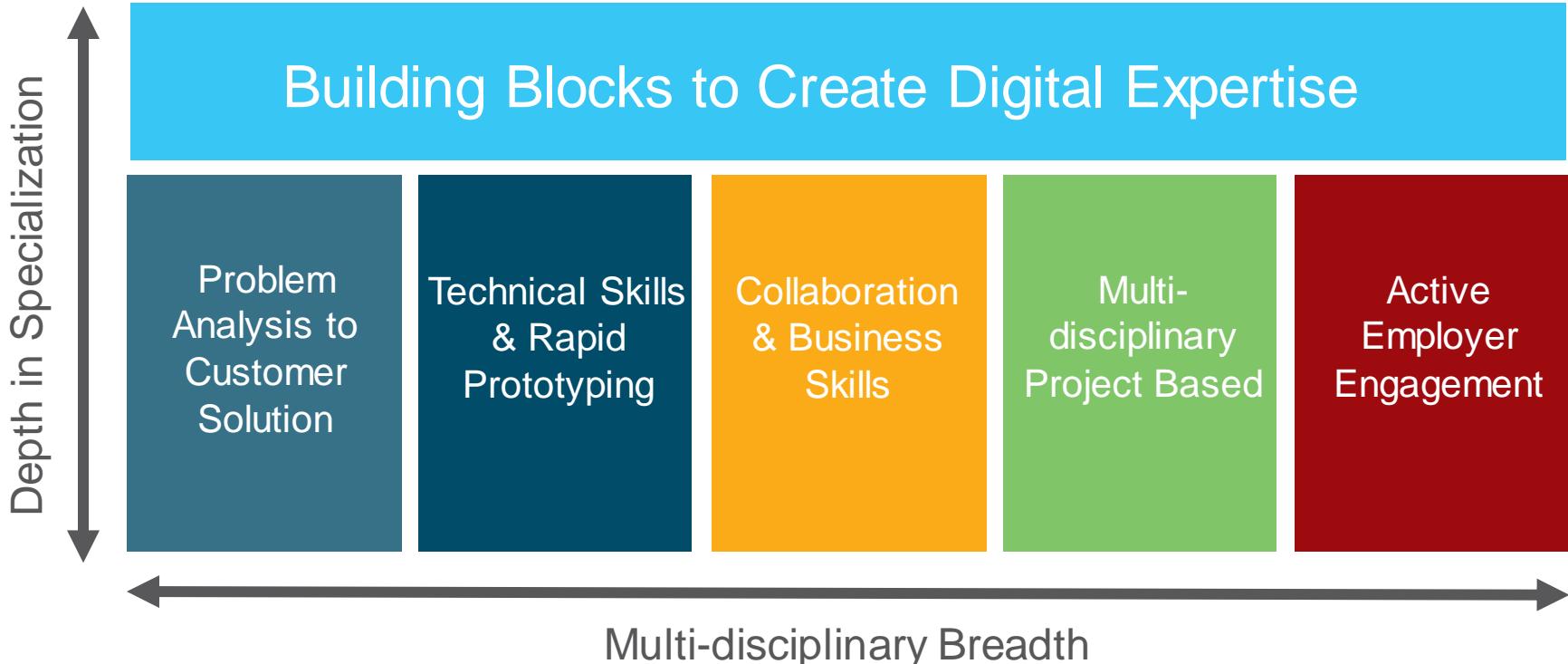


European
Commission

Confidential

10

The Digital Workforce Transformation



Overwhelming Global Problems to Solve



Unemployment

197.1 million people
71 million young people

Barriers to Education

63 million adolescents (17% of global population) not in school

Economic Inequality

767 million people live on less than US\$1.90/day

Water Scarcity

1.8 billion people worldwide lack access to safe water

What is a Global Problem Solver?



Innovate as a technologist

Build networks
Connect devices
Develop apps
Analyze data



Think as an entrepreneur

Create
Innovate
Collaborate



Act as a social change agent

Connect and inspire
See challenges as opportunities
Be socially conscious

Fundació Trinijove
Barcelona, Spain



How Cisco Empowers Global Problem Solvers

01

Early-Stage Investments

Technology Solutions

- Scalable
- Replicable
- Sustainable



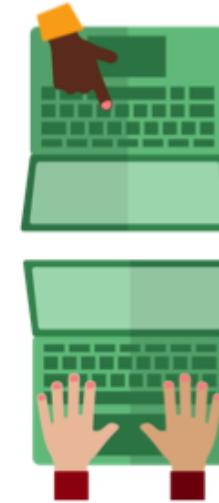
How Cisco Empowers Global Problem Solvers

02

Catalyzing an Entrepreneurial Ecosystem

Support Progress & Inclusive Growth

- Start-up support
- Prize money
- Business plan competitions



How Cisco Supports Global Problem Solvers

03

Build Digital Skills

Create Opportunities to:

- Innovate
- Test
- Expand Thinking



How to Get Involved



Login

Register

Cisco Global Problem Solver Challenge

Calling Students + Recent Grads • \$300,000 in Prizes

How can your new technology solution or service help benefit the economy, society or the environment?

APPLICATIONS OPEN UNTIL MAY 30, 2017

[Overview](#)

[FAQs](#)

[How to Participate](#)

[Eligibility](#)

[Rules](#)

[Judges](#)

[Resources](#)





**THERE'S
NEVER BEEN
A BETTER
TIME**

to be a global problem solver





Cisco Networking Academy

La experiencia de aprendizaje en Cisco Networking Academy

David de San Benito
Responsable RSC & Networking Academy Cisco España
PUE DAY, 26 de Abril 2017



**50 mil millones de
objetos conectados
para 2020**



“Changing the
Way We Work,
Live, Play, and
Learn”

Comunidad global



Personalizada

La experiencia de aprendizaje
en Cisco Networking Academy

Crear la fuerza laboral que impulse la economía digital



24 Cisco Networking Academy

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Ventajas de ser un centro **Cisco Academy**

DA ACCESO

- Acceso a plataforma formativa y contenidos sobre tecnología de última generación

CAPACITA

- Formación que capacita a jóvenes respondiendo a demandas del Mercado laboral: seguridad, IoT, programación

CONVERTIRSE EN UNA MEJOR OPCIÓN (COMO CENTRO EDUCATIVO)

- Proceso constante actualización de contenido
- Alto % de cursos exploratorios en castellano

ACTUALIZA

PRESTIGIA

Nuestra cartera de cursos genera interés y competencia



Exposición



Educación



Experiencia

Colaborar para tener impacto

Contribuya a un proceso creativo e innovador
Sintetice habilidades para resolver problemas del mundo real

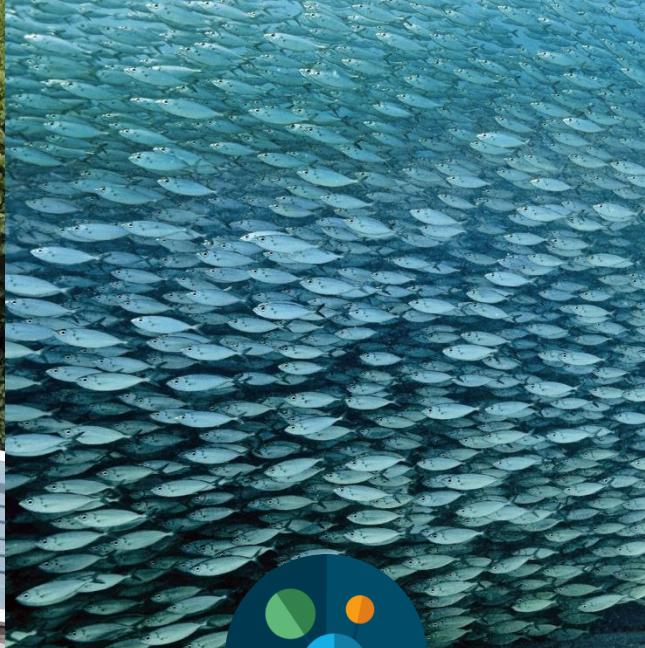


Cisco Networking Academy



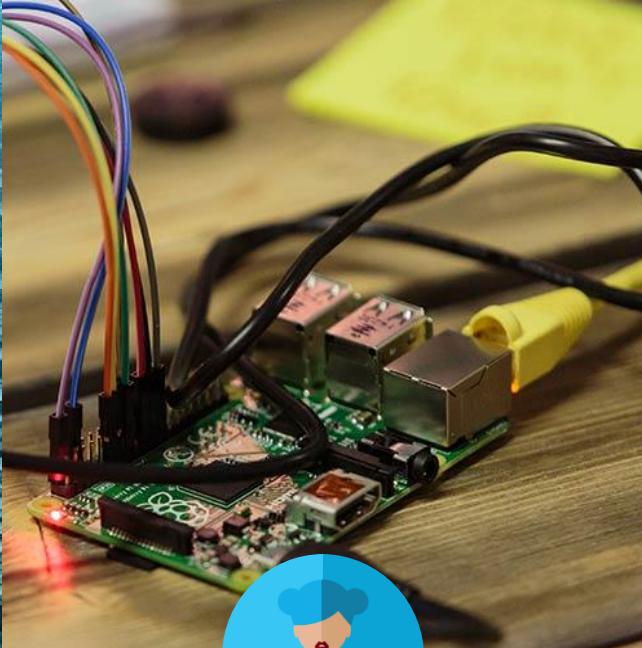
Seguridad

Cursos para descubrir el mundo de la seguridad informática y generar profesionales de la seguridad alineado con la certificación CISCO **CCNA Security**



Networking

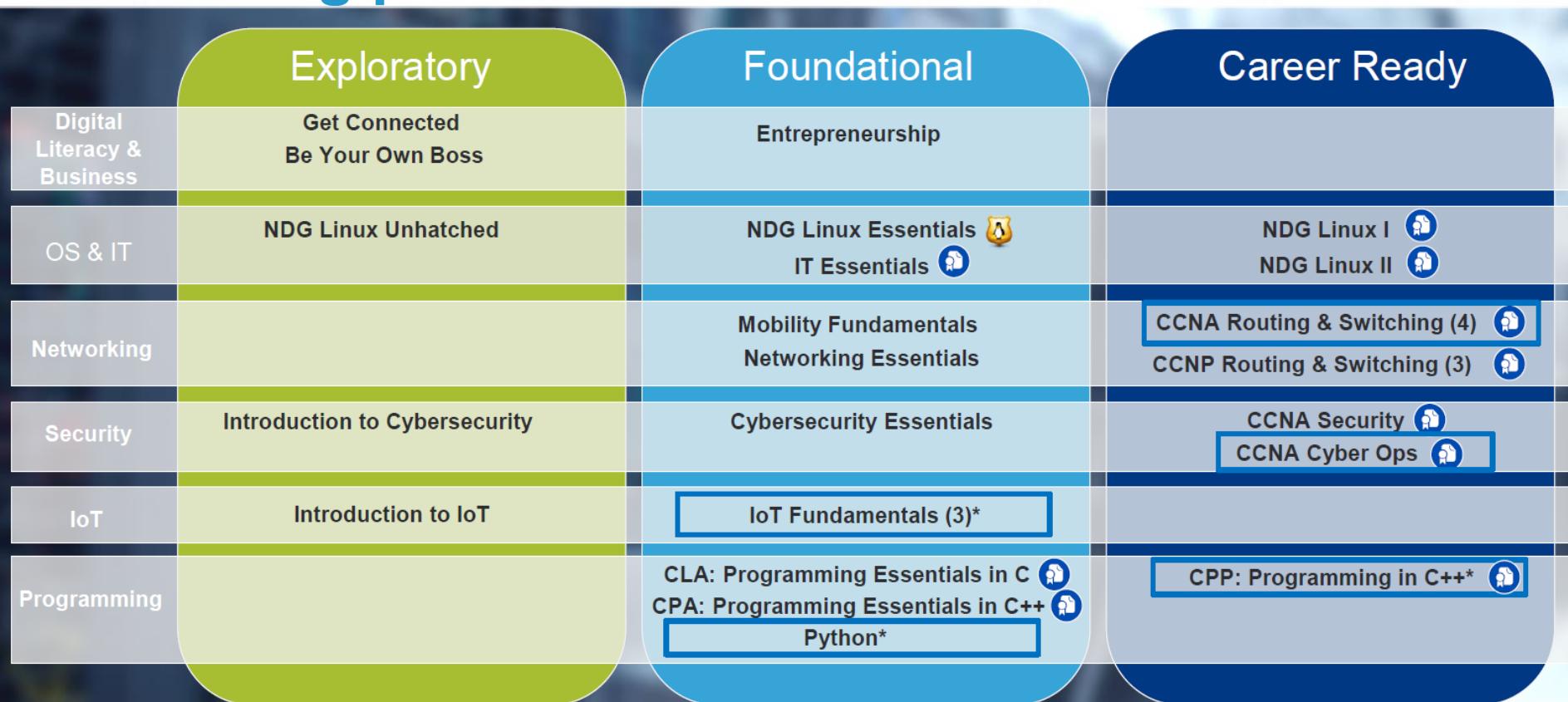
Cursos para descubrir el mundo del Networking y generar profesionales de la redes de comunicación alineado con la certificación CISCO **CCNA Routing and Switching**



Programación

Cursos para descubrir el mundo de la programación y generar profesionales de la programación con foco en lenguajes de programación **LINUX y C++, Python** alineado con certificaciones de LPI y C++ Institute.

Learning portfolio



Collaborate
for Impact

Packet Tracer
Packet Tracer Know How

Hackathons
Regional IT Competitions

NetRiders Competition
Internships

IoT Fundamentals Curriculum

Overview

IoT Fundamentals is a multi-disciplinary hands-on curriculum teaching **how to ideate, prototype and articulate the business value of an “end-to-end IoT Solution”**. The curriculum provides a strong skills and design-thinking foundation for IoT job families that exist today and in the future.

Career Prep

The skills developed in the curriculum is the starting point to prepare for **employer-validated** entry-level job families like:

- IoT Device Management
- IoT Product Manager
- IoT Data Analytics

Learning Components

- Connecting Things course
- Big Data & Analytics course
- Hackathon Playbook
- Cisco Prototyping Lab
- Cisco Packet Tracer (PT 7)

Features



Develop entrepreneurial and social impact mindset through highly engaging hands-on and simulated learning activities including Prototyping Lab and Packet Tracer 7.0 to develop:

- 21st Century Skills such as Creativity, Critical thinking, Collaboration and Communication
- Rapid prototyping with Sensors, Electronics and Arduino
- Use visual programming or Python to program a Raspberry PI
- Connect with Cloud Services using restful APIs
- Collect, store and visualize data from sensors in real time
- Apply analytics to gain insights from data
- Present IoT solutions and their business value

Connecting Things

Chapter 0
Course Introduction

Chapter 1
Things and Connections

Chapter 2
Sensors, Actuators, and Microcontrollers

Chapter 3
Software is Everywhere

Chapter 4
Fog Networks and Cloud Services

Chapter 5
Connecting the Unconnected

Section 1.0
Introduction

Section 1.1
What are Things?

Section 1.2
What are Connections?

Section 1.3
Summary

Topic 1.0.1
Welcome

Page 1.0.1.1
Chapter 1: Things and
Connections



Cybersecurity Curriculum

Exploratory

Introduction to Cybersecurity



Course 1: Introduction to Cybersecurity

Objective:

- Create interest in cybersecurity
- Learn basics of being safe online
- Learn different types of cyber threats and attacks, and how organization can protect themselves
- Explore career options in cybersecurity

Audience: Upper secondary, Junior high school students, non-IT, public

Delivery: Self-paced & ILT

Length: 15 hours

Availability: June 2016

Foundational

Cybersecurity Essentials



Course 2: Cybersecurity Essentials

Objective:

- Learn foundational knowledge and essential skills in all security domains in the cyber world
- Learn security standards and frameworks (ISO27000, NIST)
- Learn basic security compliance, operations and policies.

Audience: High school, college students

Delivery: Self-paced & ILT

Length: 30 hours

Availability: Nov 2016

Career-Ready (Specialization)



CCNA Security



Potential:
Other specialized skills in digital security and privacy

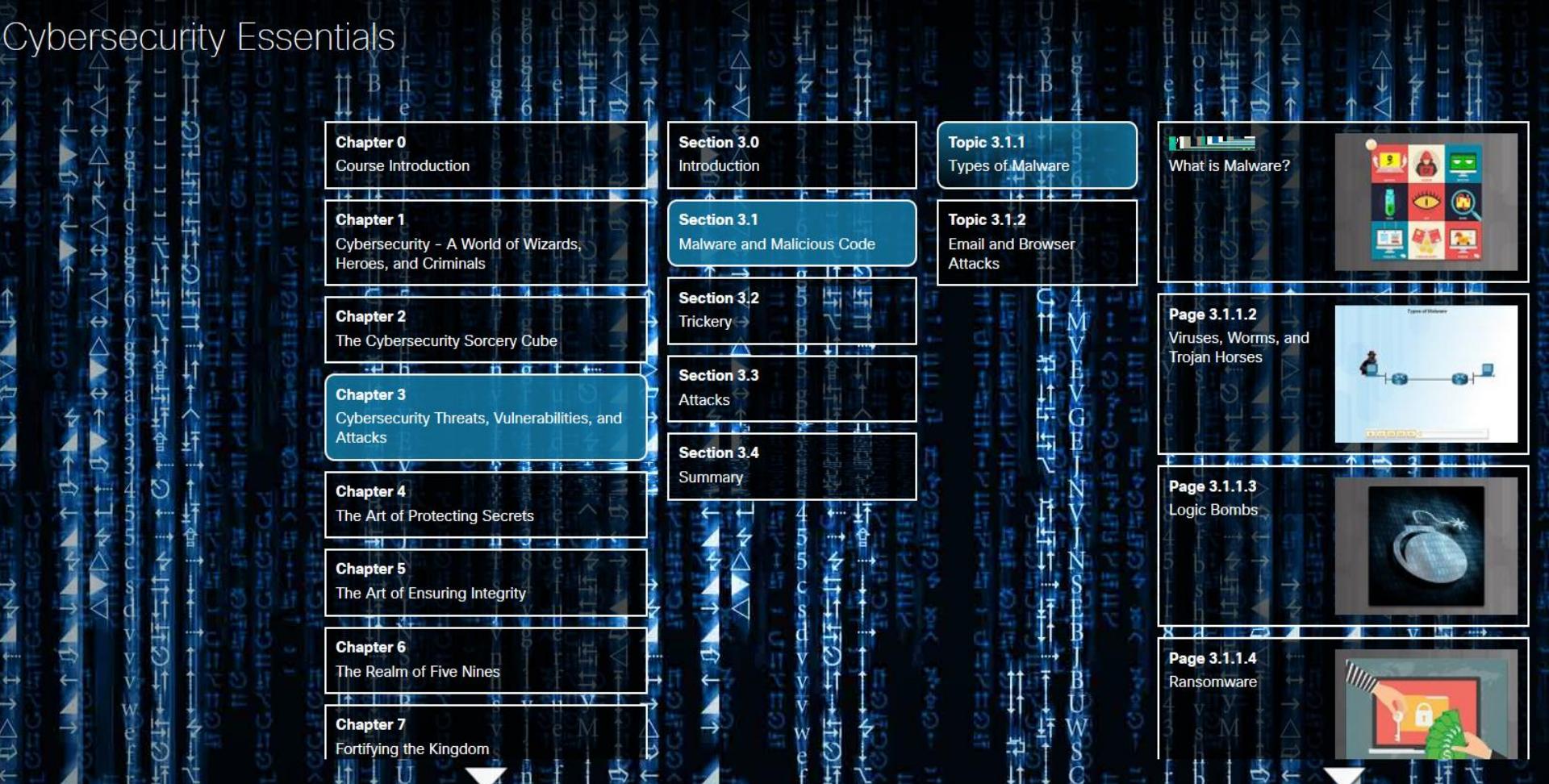
Job Prospects



Job Prospect:
Network Security Admin/ Engineer

Corresponding job prospects for each specialization.

Cybersecurity Essentials



CPA: Programming Essentials C++

OVERVIEW

CPA: PROGRAMMING ESSENTIALS IN C++

- For beginners with little or no prior knowledge of programming.
- Designed to be a full semester course: 9 chapters, 16 quizzes and chapter assessments, 100+ lab exercises, pre-final and final tests.
- Accessed online with no special equipment or system requirements.
- Aligns to C++ Institute CPA – C++ Certified Associate Programmer Certification.
- Offered at no cost.



CPA: Programming Essentials C++

The screenshot shows a web-based learning environment for the CPA C++ course. On the left, a sidebar displays a table of contents for '5 Object programming essentials' and '5.4 Static components'. A red box highlights the 'Show chapters' button. The main content area shows a C++ code snippet:

```
#include <iostream>
using namespace std;
class Class {
public:
    static int Static;
    int NonStatic;
    void print(void) {
        cout << "Static = " << ++Static <<
            ", NonStatic = " << NonStatic << endl;
    }
};
int Class::Static = 0;
int main(void){
    Class instance1, instance2;
    instance1.NonStatic = 10;
    instance2.NonStatic = 20;
    instance1.print();
    instance2.print();
    return 0;
}
```

Annotations on the right side explain the layout:

- Navigation**: Points to the sidebar and table of contents.
- Left side of the screen: usually instructions, text, downloadable source code files, etc.**: Points to the sidebar area.
- Right side of the screen: usually code snippets, examples, animations, etc.**: Points to the main content area.
- Navigation arrows**: Points to the circular navigation icons at the bottom of the main content area.

Learning Materials

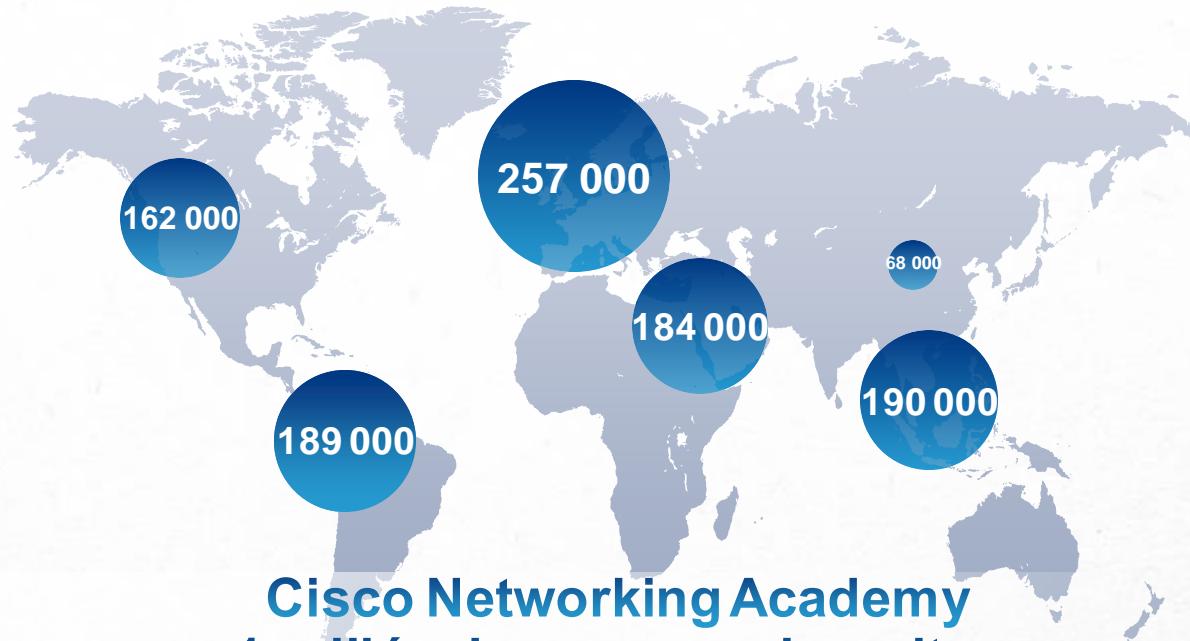
Cisco: líderes mundiales en TI

Más de 9500
academias

Más de 170
países

Más de 6 M
de estudiantes
atendidos

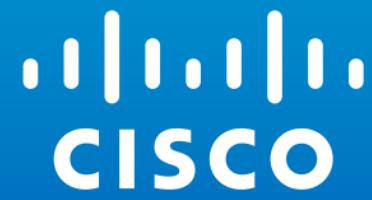
Más de
20 000
instructores



Cisco Networking Academy
1 millón de personas inscritas
actualmente en todo el mundo

Preparamos a los profesionales de TI desde 1997







Cisco Networking Academy

Cisco & PUE

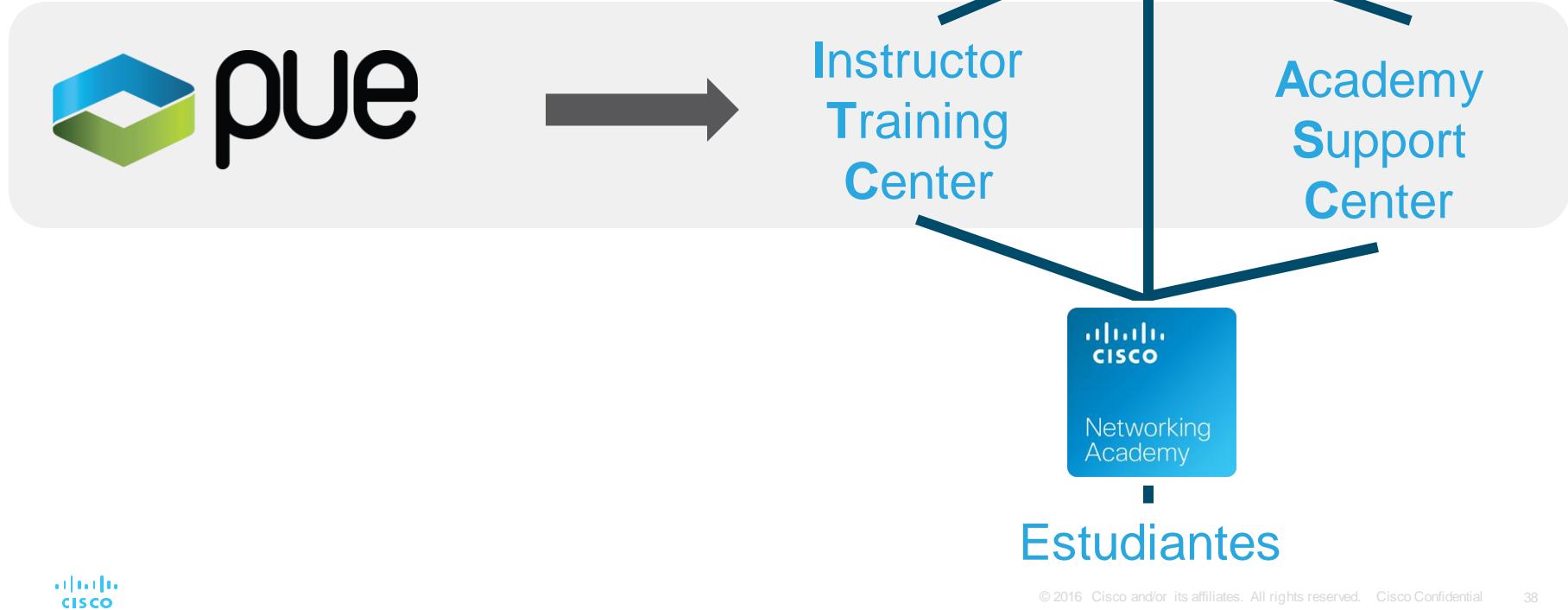


Javier Domínguez

CEO en PUE

PUE DAY, 26 de Abril 2017

Modelo de socios



PUE, ASC Premier+ Partner - 2016

PUE ha sido galardonado como **ASC Premier+ Partner** del programa Networking Academy, el mayor reconocimiento de Cisco a nivel mundial en lo que a su prestigioso proyecto educativo se refiere.

El premio reconoce a PUE en las labores de crecimiento y desarrollo del programa Networking Academy en España y el grado de satisfacción de sus centros Cisco Academy asociados.



PUE, en su labor de ASC, ofrece...



Difusión del proyecto



Soporte continuado a los centros



Webinars



Localización de contenidos



Distribución de material docente
Cisco Press



Iniciativas de interés para Cisco Academies

PUE, en su labor de ITC, ofrece...

-  Formación para instructores
-  Soporte al docente
-  Formación en todos los currículos disponibles
-  Calendario activo a lo largo de todo el año

Formación de instructores

PUE dispone de un calendario anual de formación para instructores que incluye todos los currículos del programa Cisco Networking Academy.

<https://www.pue.es/educacion/cisco-networking-academy/formacion-de-instructores>



CCNA R&S



IT Essentials



CCNA Security



Internet de las
Cosas



Linux Essentials



CCNP

Nueva Certificación CCNA Routing & Switching

- Cisco anuncia la aparición de las nuevas certificaciones CCNA R&S
→ **17 de mayo de 2016**
- Cisco también publica las fechas de validez de las certificaciones existentes y la nueva correspondencia de exámenes.

Certificación	Nuevo Examen	Examen Anterior	Fecha fin Examen Anterior
CCENT	100-105 ICND1	100-101 ICND1	20 de Agosto 20 de 2016
ICND2	200-105 ICND2	200-101 ICND2	24 de Septiembre de 2016
CCNA R&S	200-125 CCNA	200-120 CCNA	20 de Agosto 20 de 2016

Cursos para preparar la certificación CCNA R&S

→ Cursos Desactualizados → No disponibles en Netacad desde Diciembre 2015

→ **CCNA DISCOVERY**

→ **CCNA EXPLORATION**

→ **Opción 1:**

- ✓ Curriculum CCNA R&S versión 5 (cuatro módulos en castellano)
- +
 - ✓ Curso CCNA Routing & Switching v6 Bridging course
 - Módulo complementario que incluye los objetivos actualizados de la nueva certificación (disponible en castellano)

→ **Opción 2:**

- ✓ Curriculum CCNA R&S versión 6
 - Los instructores acreditados pueden impartir los nuevos curriculums.
 - **No** es necesaria recertificación para pasar de Discovery/Exploration a CCNA R&S v5 (o v6)

Idiomas - CCNA R&S v6

- **CCNA R&S v6: Introducción a las redes**
 - Inglés y castellano → Disponible
- **CCNA R&S v6: Fundamentos de enrutamiento y conmutación**
 - Inglés y castellano → Disponible
- **CCNA R&S v6: Escalado de redes**
 - Inglés → Anunciado - Julio 2017
 - Castellano → Pendiente de anuncio
- **CCNA R&S v6: Interconexión de redes**
 - Inglés → Anunciado - Julio 2017
 - Castellano → Pendiente de anuncio

Material docente Cisco Press

PEARSON



Acuerdo entre PUE y Pearson para la distribución exclusiva de los libros de Cisco Press en castellano.

Alberto Sebastián, Higher Education & Institutional Sales Manager de Pearson Educación, y **Javier Domínguez**, CEO de PUE.

Material docente



PEARSON



Fundamentos de tecnología de la información

Disponible en Castellano e Inglés

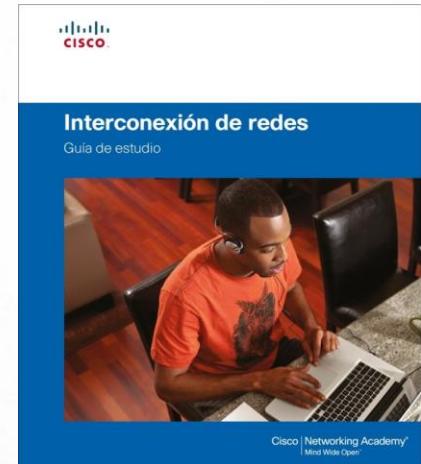
Alineado con la certificación CompTIA A+

<http://webstore.pue.es/it-essentials>

Material docente



PEARSON



Libros oficiales Cisco Press para el aprendizaje de cada uno de los módulos del curso CCNA R&S

<http://webstore.pue.es/ccna-rs>

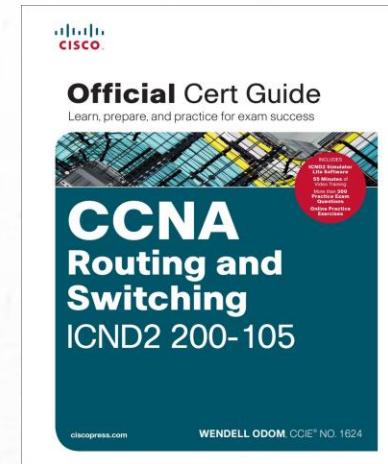
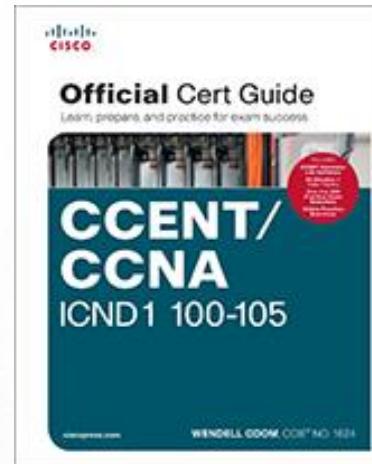
Material docente



PEARSON

Libros Cisco Press destinados a la preparación de la certificación CCNA R&S

Incluye tests de preparación,
planes de estudio, ejercicios y
cientos de preguntas de examen



<http://webstore.pue.es/ccna-rs>



Cisco Networking Academy

Suscripción al programa CNA

- Coste del alta de una nueva Cisco Academy: **1.502,00 €** (IVA Incluido), que incluye la formación de 2 instructores en CCNA o IT Essentials.
- Renovación anual: **900,00 €** (IVA Incluido). Se incluye la formación de un instructor en cualquiera de los currículums disponibles en el CNA.
- Altas en 2017, no renuevan hasta **enero 2019**
- El coste de suscripción al programa CNA incluye la formación ilimitada de alumnos por parte de la institución académica en los currículums oficiales disponibles en los que tenga docentes certificados.
- Más info: <https://www.pue.es/educacion/cisco-networking-academy>

Cisco Networking Academy en España

2001

Cisco Academies

35

Estudiantes formados

3.471



Cisco Networking Academy en España

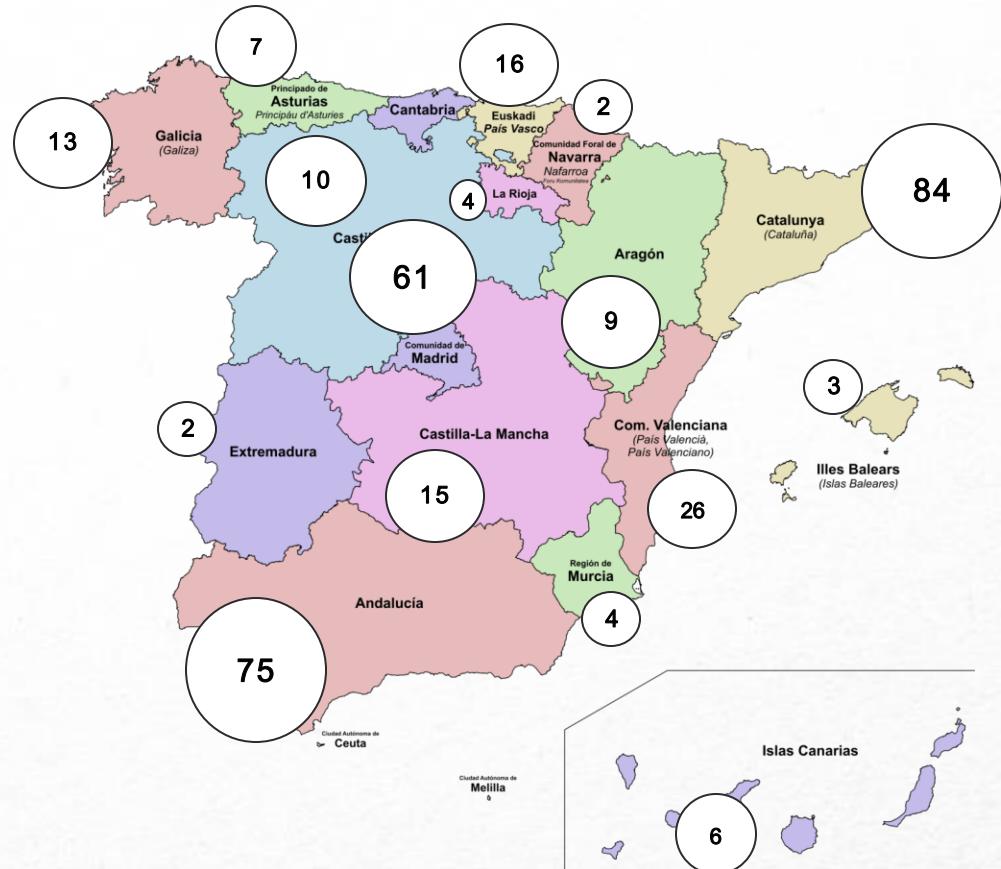
2014

Cisco Academies

337

Estudiantes formados

108.000



Cisco Networking Academy en España

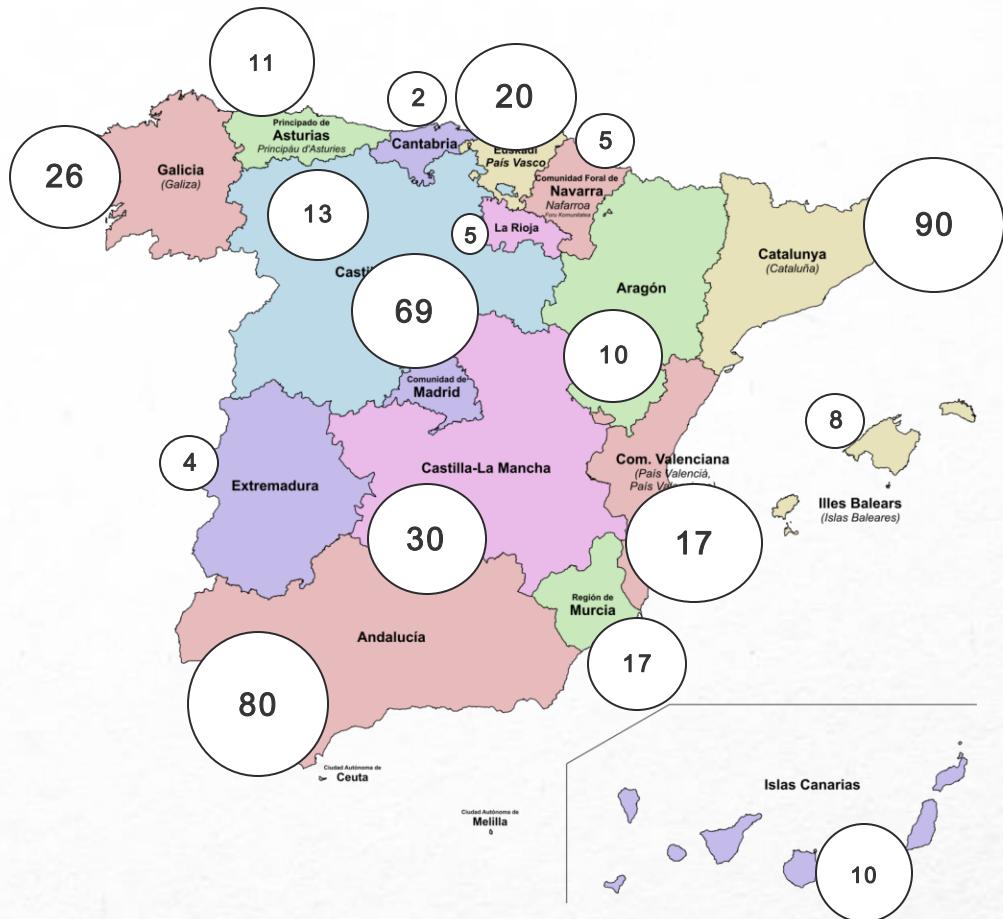
2017

Cisco Academies

413

Estudiantes formados

159.706



¡Gracias!

¿Qué te ha parecido la ponencia de Cisco?

Sólo te pedimos 2 minutos o menos para responder 3 preguntas

Tu opinión nos importa.



pue.es/e-pcisco