

Výročná konferencia programu Cisco Networking Academy



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Product Manager, Cisco Networking Academy

September 26, 2025

Time machine - 2022/11/03



Default Section

1

Start

2

NetAcad@25

3 4 5 6

NetAcad Next

7 8 9 10 11

Cybersecurity

12 13 14 15 16 17 18 19

20 21 22 23 24 25

End

26 27

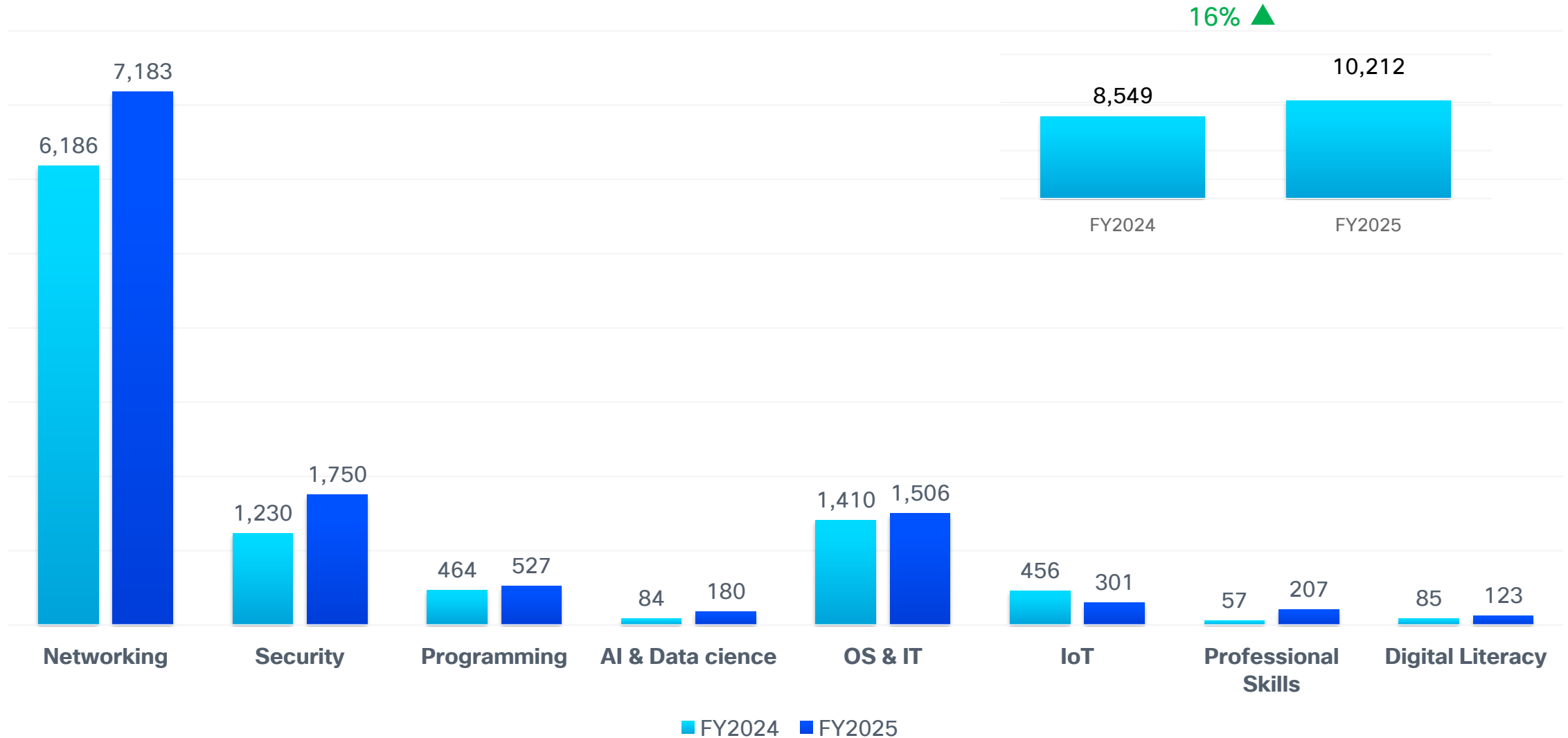
The slide displays a grid of 27 numbered thumbnail images representing a presentation deck. The thumbnails are organized into sections: 'Default Section' (slide 1), 'Start' (slide 2), 'NetAcad@25' (slides 3-6), 'NetAcad Next' (slides 7-11), 'Cybersecurity' (slides 12-25), and 'End' (slides 26-27). The 'Cybersecurity' section contains several data points: slide 15 shows '3,500,000' under 'The skills gap'; slide 16 shows '89%' and '65%' under 'Job opportunities are unexploited'; slide 24 shows '3,500,000' under 'The skills gap'; slide 25 shows '3,499,000' under 'Skills to advance your career'. The thumbnails feature various charts, maps, and text boxes related to cybersecurity education and workforce trends.

Agenda

- 01 Quick Year in Review
- 02 Learning Portfolio Priorities
- 03 Learning Portfolio Plans

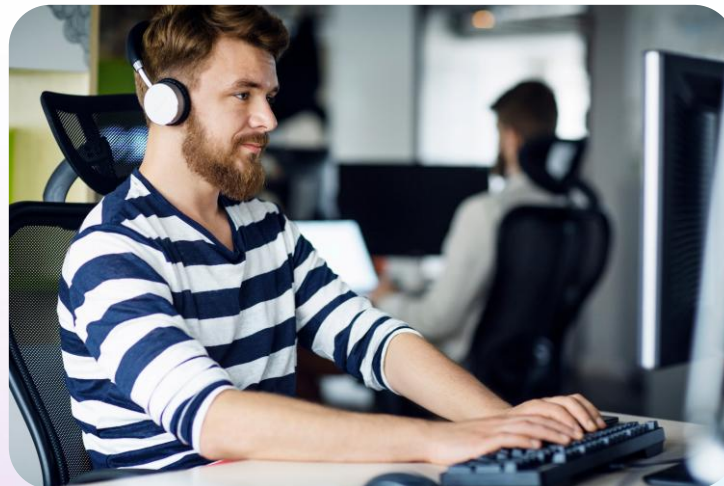
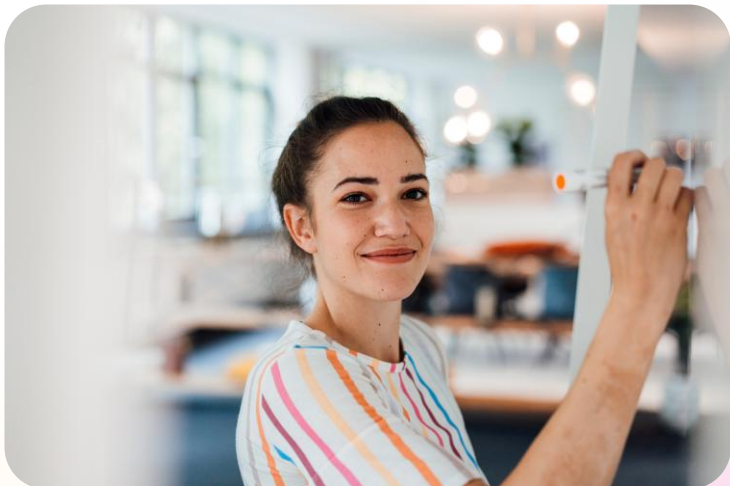
YOUR IMPACT IS SIGNIFICANT!

Student Participants in Slovakia



95% of students say Cisco Networking Academy helped them obtain a job and/or educational opportunity

(Based on student outcome surveys of student participants who took Cisco certification-aligned courses between fiscal years 2005 to 2022)



Quick Review of the Last 12 Months

24

New Curriculum Offerings

CCST IT Support series: Operating Systems Support, IT Customer Support Basics, Security & Connectivity Support, Hardware & Upgrade Support

IT Support Essentials

Practice with AI: Analyze Customer Reviews

Introduction to Modern AI

ENSA Supplement Module

SRWE Supplement Module

Data Analytics Essentials

Digital Literacy – Digital Awareness

Digital Literacy – Using Computer & Mobile Devices

Digital Literacy – Create Digital Content, Communicate & Collaborate Online

Digital Literacy– Digital Safety & Security

Industrial Networking Essentials

CSS Essentials

HTML Essentials

Introduction to Greenhouse gas accounting for IT

Getting Ready to Teach Cybersecurity Essentials

Getting Ready to Teach Networking Essentials

Introduction to Switch Operation

Introduction to Switch Security

Cloud Managed Networking 101 with Cisco Meraki

Threat Intelligence 101 with Cisco Talos

Learning Portfolio Priorities



**Meet Learners
Where They Are**



**Create Learning Paths
That Lead to Compelling
Careers**



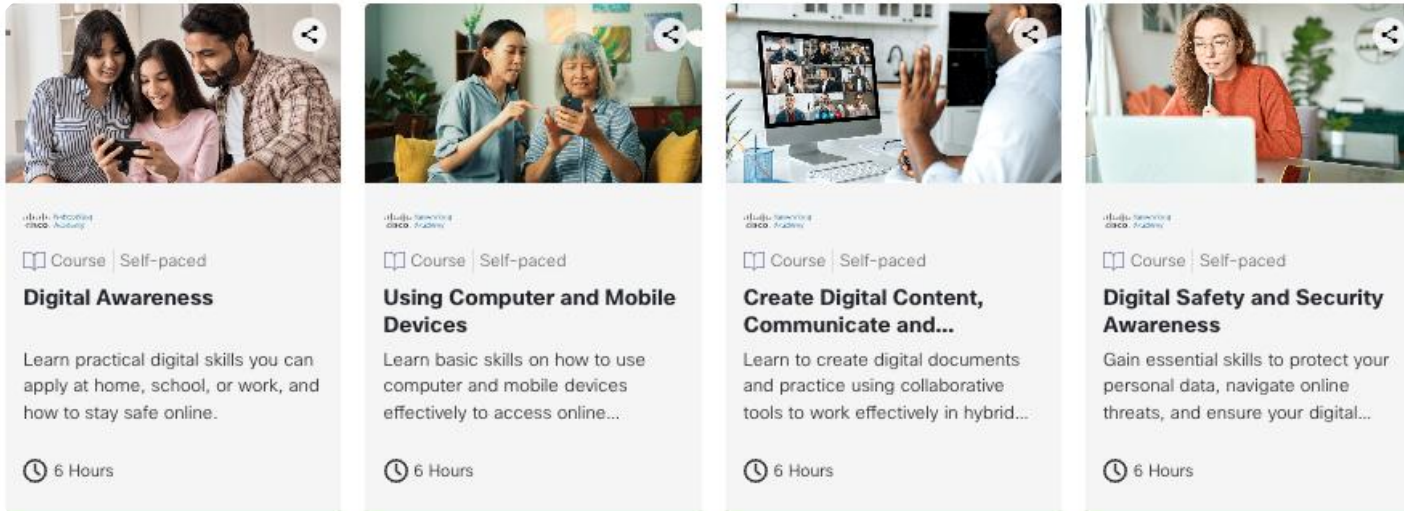
**Deliver Engaging, Effective
Learning Experiences**

**Priority #1:
Meet Learners Where They Are**

MEET LEARNERS WHERE THEY ARE

Digital Literacy Learning Collection

Digital literacy is no longer optional – it's essential for everyone. This learning collection offers flexible starting points including short, 6-hour courses designed to equip learners with digital skills necessary for learning, work, and everyday life.



16,653 Class Participants to date in Europe

By 2030, 9 out of 10 jobs will require digital skills. World Economic Forum
–Future of Work Report



Mobile-friendly

Access course materials and resources anytime, anywhere.

Customizable

Modular courses link to other NetAcad entry-level courses for deeper exploration.

Interactive Learning Content

Includes widgets, drag and drop activities, quizzes, and simulations.

Real Applications

Focus on real-world scenarios, applying digital literacy skills to everyday life or work

Certification Alignment

The OpenEDG Digital Literacy Certification provides option to complete four milestone exams or take sign comprehensive Digital Literacy Exam.

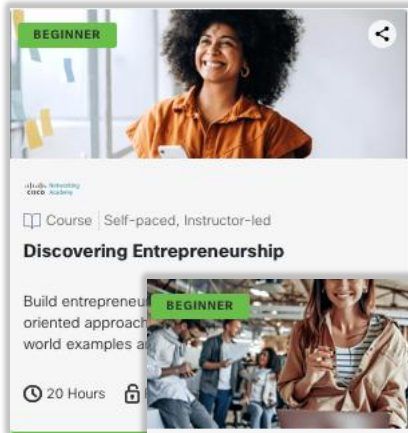
Framework Alignment

The [European Digital Competence \(DigComp\) Framework](#), as endorsed and used by UNESCO and ITU to develop indicators for Global Digital Literacy Skills.

MEET LEARNERS WHERE THEY ARE

Professional Skills Portfolio

Entrepreneurship



BEGINNER

Course | Self-paced, Instructor-led

Discovering Entrepreneurship

Build entrepreneurial skills and gain insights into a growth-oriented approach to business by exploring real-world examples and case studies.

20 Hours



BEGINNER

Course | Self-paced, Instructor-led

Launching a Business Venture

The second in a 3-part entrepreneurship series designed to help you learn business strategy, operations, networking and risk management.

20 Hours



BEGINNER

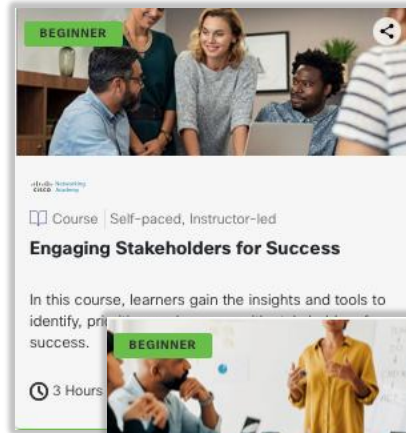
Course | Self-paced, Instructor-led

Managing a Business Venture

The third in a 3-part entrepreneurship series designed to help you learn business strategy, operations, networking and risk management.

20 Hours

Core Skills



BEGINNER

Course | Self-paced, Instructor-led

Engaging Stakeholders for Success

In this course, learners gain the insights and tools to identify, prioritize and engage stakeholders for success.

3 Hours



BEGINNER

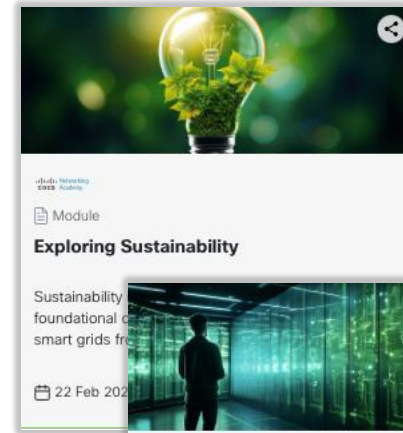
Course | Self-paced, Instructor-led

Creating Compelling Reports

Learn how to tell a great story and communicate important information to flourish in your professional career.

4 Hours

Sustainability

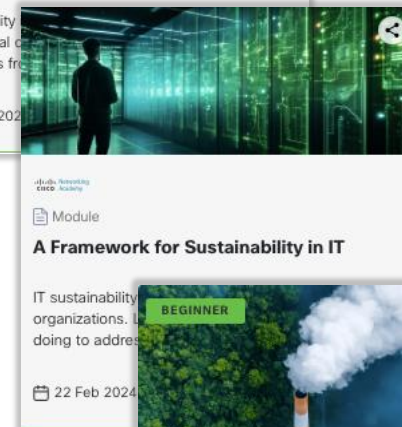


Module

Exploring Sustainability

Sustainability is a key driver of innovation and growth. This module provides foundational knowledge on smart grids and energy efficiency.

22 Feb 2024



Module

A Framework for Sustainability in IT

IT sustainability is a key driver of innovation and growth. This module provides foundational knowledge on doing to address environmental impacts.

22 Feb 2024



BEGINNER

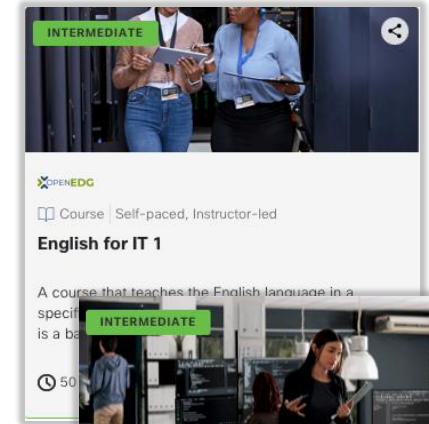
Course | Self-paced, Instructor-led

Introduction to Greenhouse Gas Accounting for IT

Expand your IT sustainability skills and dig into the environmental impacts of technology.

3 Hours

English for IT



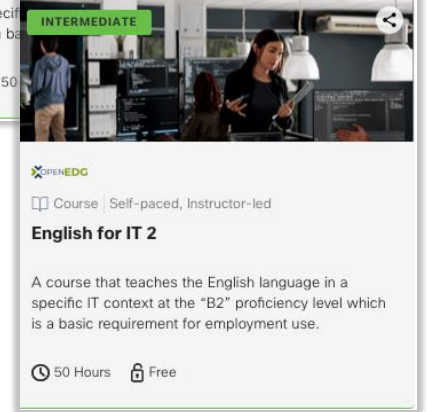
INTERMEDIATE

Course | Self-paced, Instructor-led

English for IT 1

A course that teaches the English language in a specific IT context at the "B1" proficiency level which is a basic requirement for employment use.

50 Hours



INTERMEDIATE

Course | Self-paced, Instructor-led

English for IT 2

A course that teaches the English language in a specific IT context at the "B2" proficiency level which is a basic requirement for employment use.

50 Hours

**Priority #2:
Create Learning Paths That
Lead to Compelling Careers**

NetAcad Targeted Job Roles

Network & IT Support

- IT Support Specialist
- Network Support Technician
- Network Administrator
- Network & IT Automation Engineer

Cybersecurity

- SOC Analyst Level 1
- Cybersecurity Analyst
- Ethical Hacker

Industrial

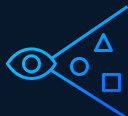
- OT Cybersecurity Technician

Data & AI

- Data Analyst
- Python Developer
- Jr. AI Engineer



The AI Workforce Consortium



Vision

Empower the Global ICT workforce to thrive in an AI-Powered world.



Mission

Prepare today's and tomorrow's workforce with actionable insights and scalable frameworks to leverage the transformational opportunity of AI on ICT jobs.

MEMBERS



ADVISORS

DIGITALEUROPE

European Vocational Training Association

SMEunited

The AI Workforce Consortium 2025 Report

78%¹ of the 50
analyzed job
roles include
AI Skills



(1) Percentage of the Job Role analyzed that show a significant (>10%) prevalence of AI skills in their job post.

The AI Workforce Consortium 2025 Report



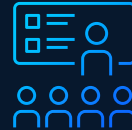
2025 ICT Report

In-depth analysis of how AI is transforming strategic Information and Communication Technology (ICT) job roles across the G7 economies. Includes skills stories and job canvases.



AI Workforce Playbook

Guide to strategically align workforce development with evolving business and AI objectives.



Learning Recommendations

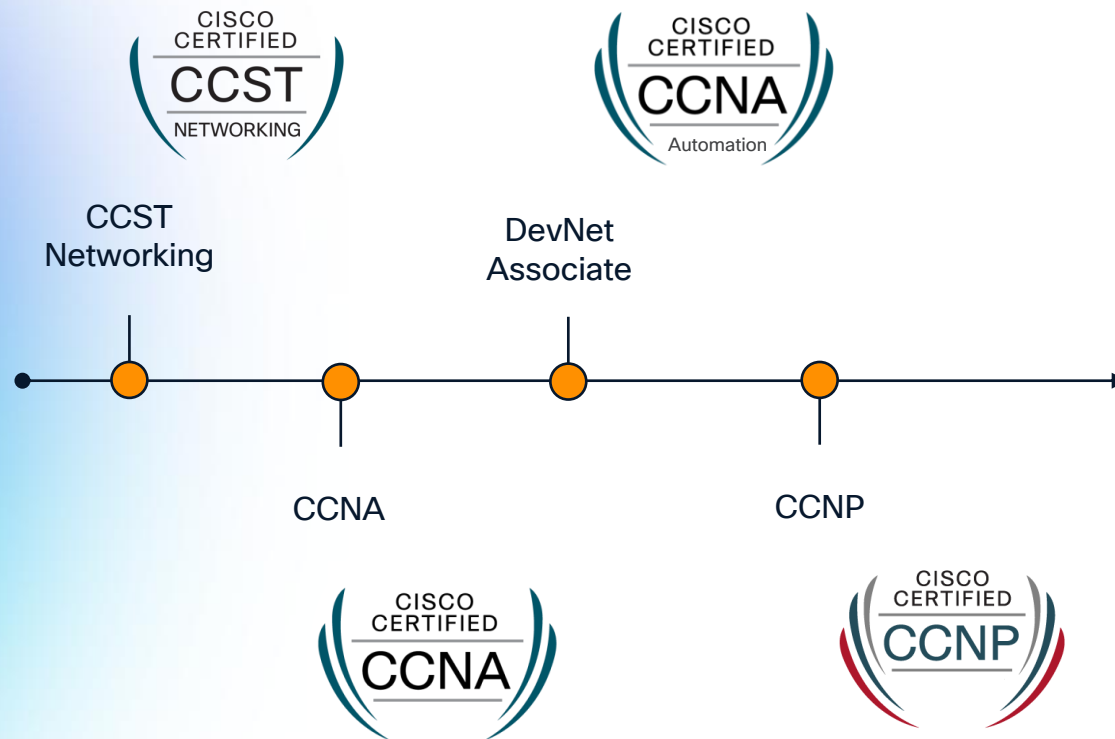
200+ curated courses, offering job-specific recommendations aligned with emerging technical and AI skills.



Skills Glossary

Resource aimed at standardizing AI skills across education, industry and policy.

Networking Pathway



- Network Support Technician
- Network Administrator
- Network & IT Automation Engineer

Networking Entry Level

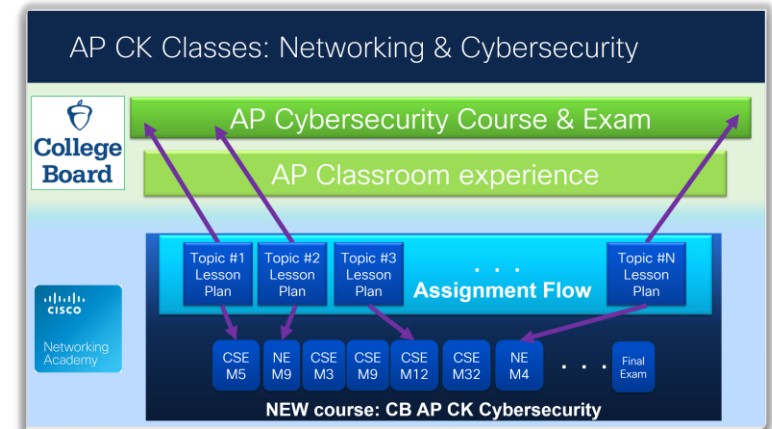
CCST Networking Courses

- Networking Essentials
 - Networking Basics
 - Networking Devices and Initial Configuration
 - Network Addressing and Basic Troubleshooting
 - Network Support and Security



New & Coming!

- College Board Collaboration



Providing a NetAcad learning experience designed to prepare students for the new College Board AP 'Career Kickstart' exams

Networking Associate Level

CCNA Courses

- CCNA: Introduction to Networks
- CCNA: Switching, Routing, and Wireless Essentials
- CCNA: Enterprise Networking, Security & Automation



DevNet Associate Course



New and Coming!

- CCNA Supplemental Module Integration
- **AI for CCNA Workshop**
- CCNA Updates with Learn with Cisco
- **Cloud Managed Networking 101 with Meraki** now available; 201 coming!



Networking Professional Level

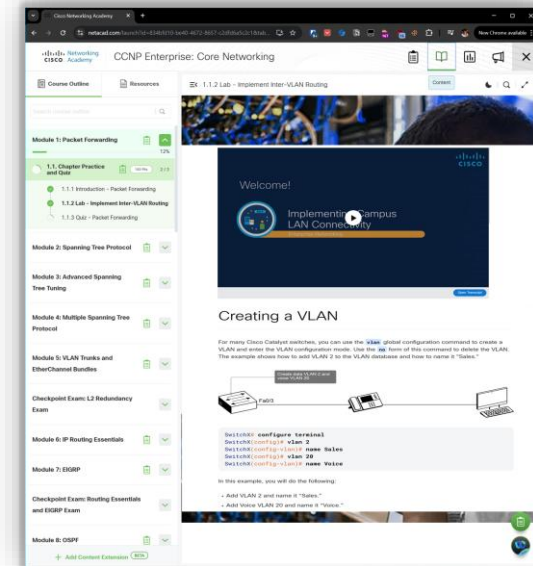
CCNP Courses

- CCNP Enterprise: Core Networking
- CCNP Enterprise: Advanced Routing



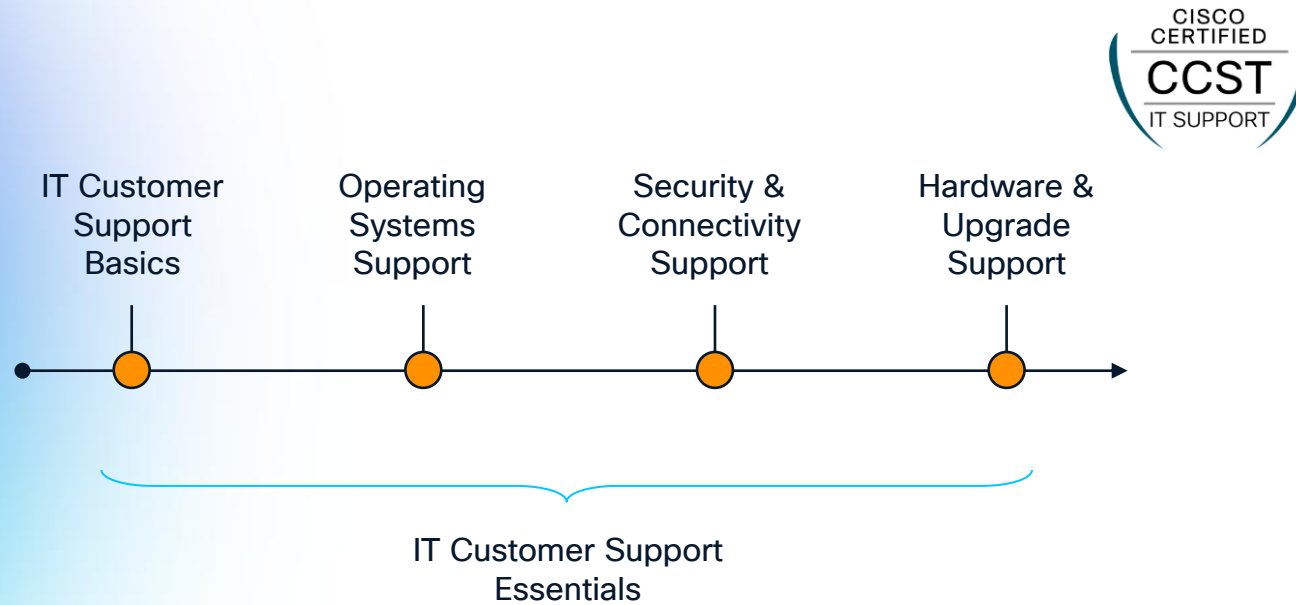
New & Coming!

- CCNP Updates with Learn with Cisco



A new updated CCNP Curriculum with a complete NetAcad experience (online curriculum, labs, assessments, PPTs, etc.)

IT Support Pathway



- IT Support Specialist

IT Support



CCST IT Support

Equip learners with the knowledge and credentials most valued in today's job market.



- All Courses Now Available!
- Coming:
 - Addition of supplemental hands-on labs to IL mini-courses
 - Getting Ready to Teach IT Support course

Cybersecurity Pathway



- SOC Analyst Level 1
- Cybersecurity Analyst
- Ethical Hacker

Cybersecurity Entry Level

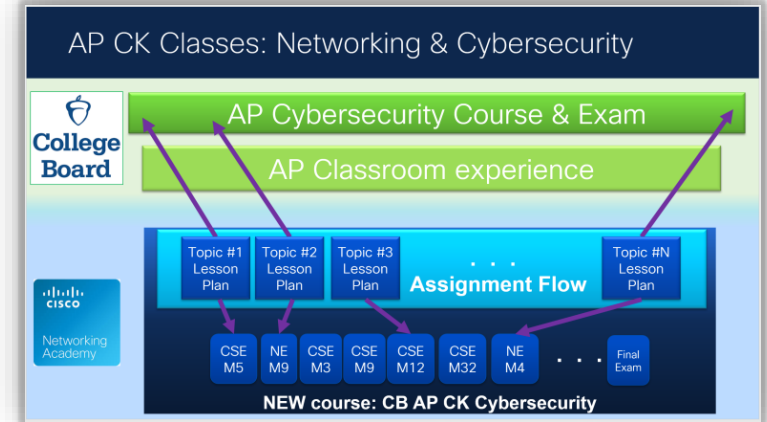
CCST Cybersecurity Courses

- **Cybersecurity Essentials**
 - Endpoint Security
 - Network Defense
 - Cyber Threat Management



New & Coming!

- College Board Collaboration



Providing a NetAcad learning experience designed to prepare students for the new College Board AP 'Career Kickstart' exams

- Splunk Cyber Defense Analyst Collection

Cybersecurity Associate Level

Ethical Hacker



CyberOps Associate



Network Security

New & Coming!

- NEW: Capture the Flag: Decoding the Server Heist
- A NEW Capture the Flag challenge every 90 days!



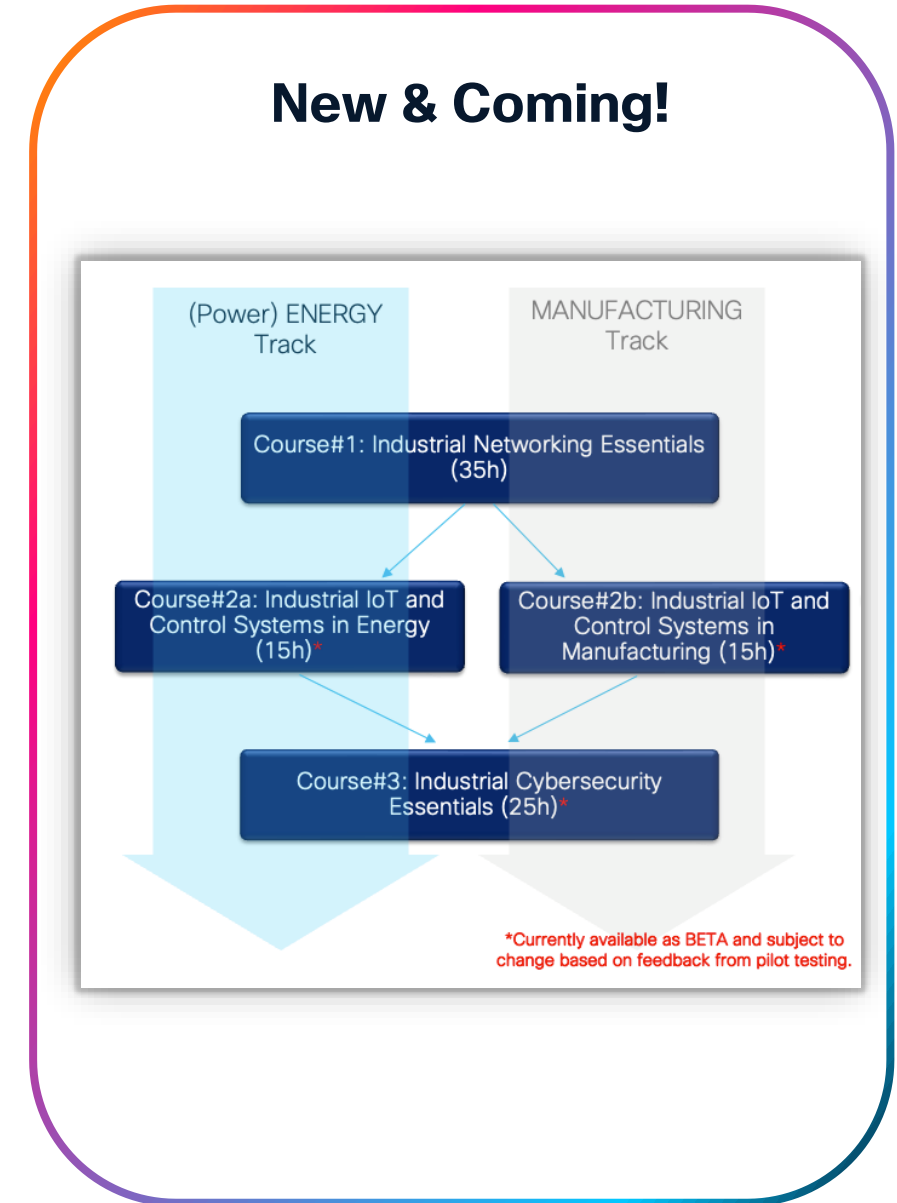
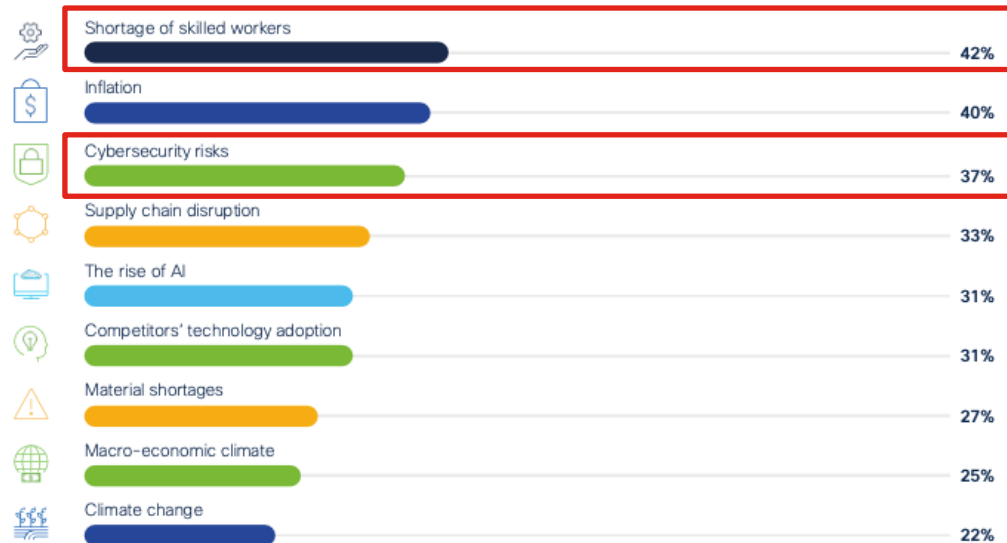
- Threat Intelligence 101 with Talos



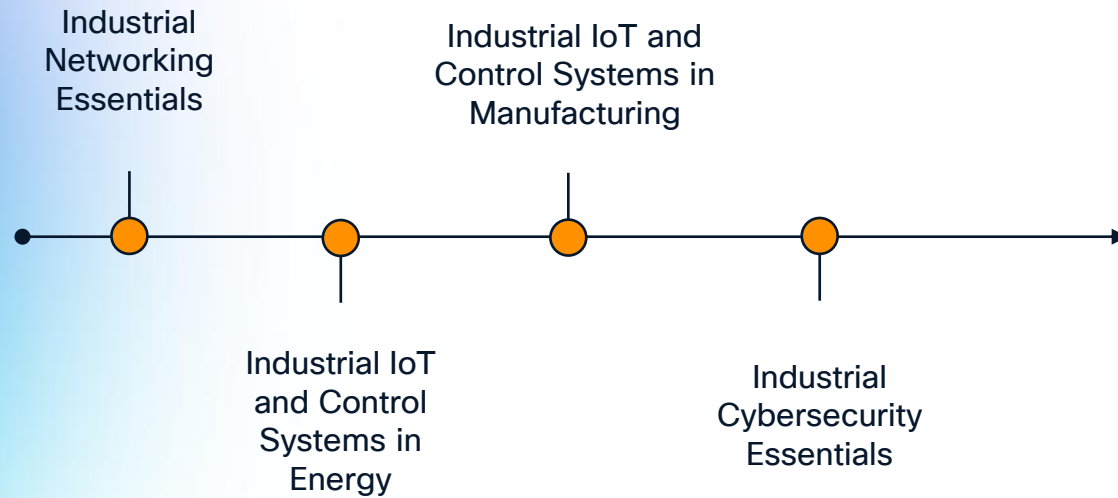
Industrial



Industry obstacles to growth: external

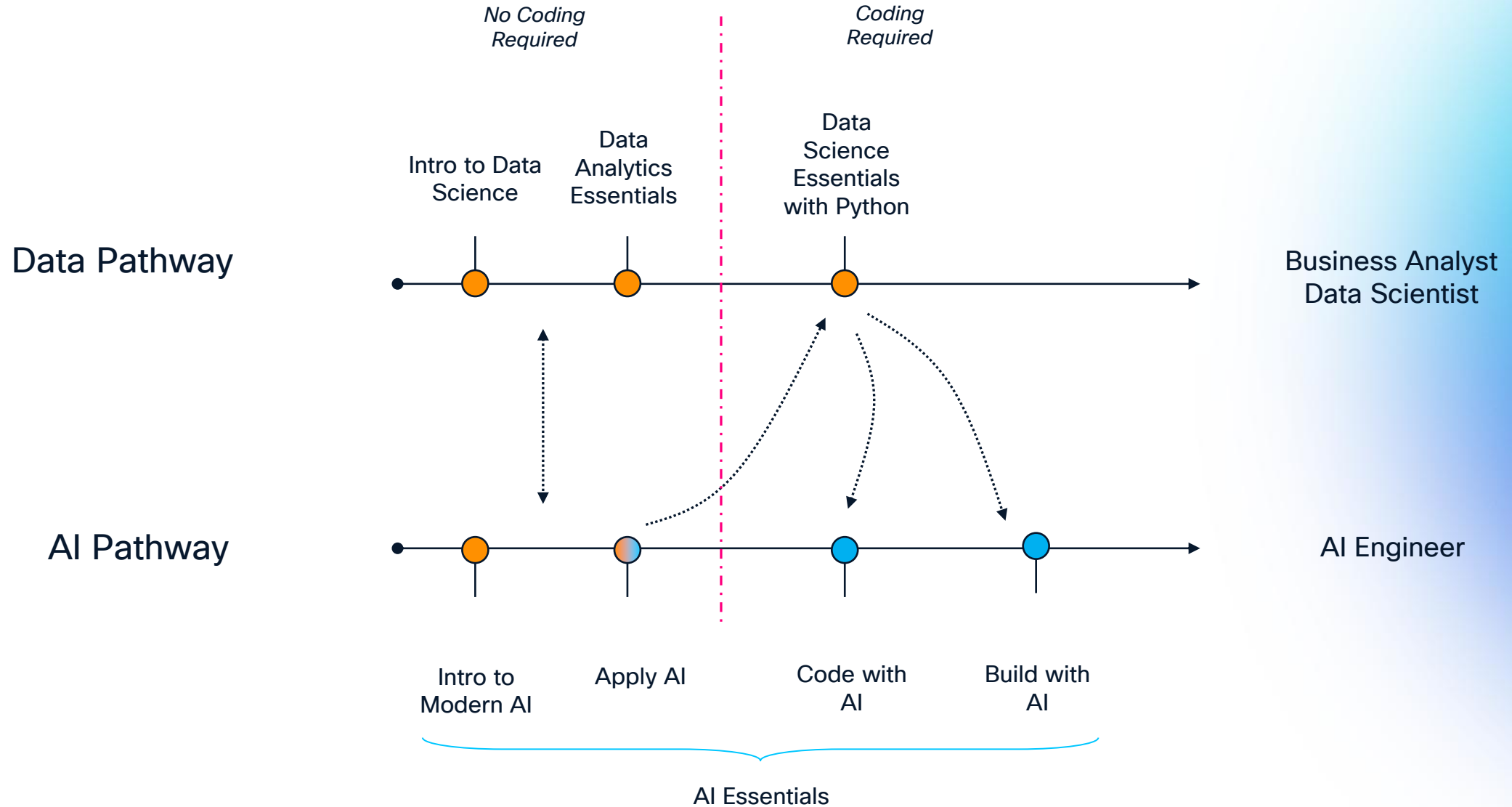


Industrial Pathway



- OT Cybersecurity Specialist

Data & AI Pathways



Data & AI

Data Courses

- Intro to Data Science
- Data Analytics Essentials
- Data Science Essentials with Python

New & Coming!

- Data Science Essentials with Python Course

The screenshot shows a learning activity titled "A Century of Top Songs". It features a code editor with Python code to load and display data from a CSV file. Below the code is a table of top songs. To the right, there is a data table with columns for animal, habitat, and top speed, and a question: "Which animals go faster than 100 km/h?".

A Century of Top Songs

What propels a song to become a **number-one** top hit durations longer or shorter than a century ago?

Loading the data

The 'top-song-durations.csv' file contains information about top songs from 1923 to 2023. Load the data into python and display the first 5 rows.

Activity Goals: Import pandas. ✓
Load the top song duration data. ✓
Display the first 5 rows. ✓

```
python
1 import pandas as pd
2 df = pd.read_csv("top-song-durations.csv")
3 df.head(5)
4
```

year	artist	title	duration
0 2023	Morgan Wallen	Last Night	00:02:43
1 2022	Glass Animals	Heat Waves	00:03:58
2 2021	Dua Lipa	Levitating	00:03:23
3 2020	The Weeknd	Blinding Lights	00:03:20
4 2019	Li Nas X feat. Billy Ray Cyrus	Old Town Road	00:02:37

The 2019 top-hit is [0, 1, 2] minutes and... [3, 4, 5]

animal	habitat	top_speed
0 Cheetah	Land	120
1 Antelope	Land	88
2 Lion	Land	80
3 Falcon	Air	386
4 Eagle	Air	193
5 Gyrfalcon	Air	168
6 Sailfish	Water	110
7 Marlin	Water	88
8 Dolphin	Water	59

9 Rows x 3 Columns

df.eval(...) df.query(...) df.groupby(...)

Which animals go faster than 100 km/h?

Fully project-based (16 projects) with AI personalized and graphical feedback, and game-based learning activities.

Data & AI

AI Courses

- Intro to Modern AI
- Analyze Customer Reviews
- AI Security Nuggets
- AI Fundamentals with IBM
- AI with Intel

New & Coming!

- AI Essentials Learning Pathway

Intro to Modern AI

*Beginner-friendly
overview and
hands-on practice*

Apply AI

*Practical, no-code
skills for everyday
tasks*

Code with AI

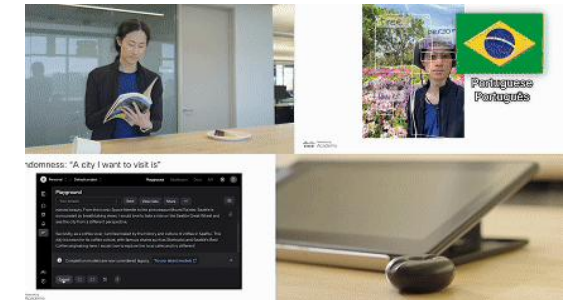
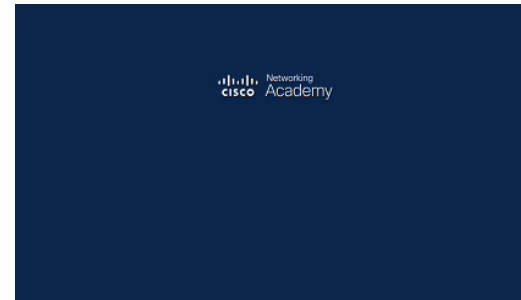
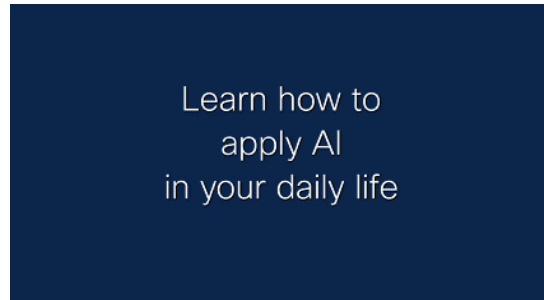
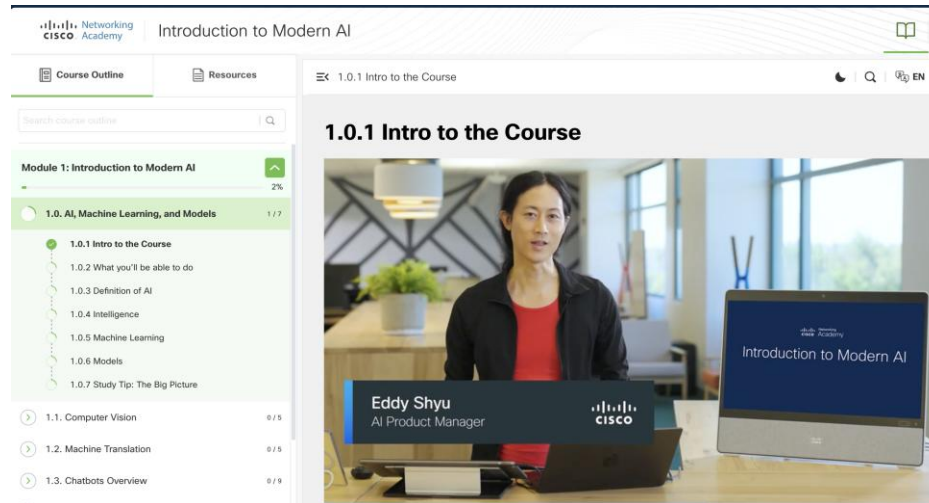
*AI-assisted coding,
data analysis, and
automation*

Build with AI

*Training,
deploying, and
creating AI apps*

Introduction to Modern AI

Basics of AI through free AI-enabled apps. Topics include the basics of computer vision, machine translation, and chatbots. Students learn how chatbots work, gain tips for writing better prompts, and explore ways to apply chatbots for personal use and productivity.



Apply AI: Analyze Customer Reviews

1. Identify and quantify themes in text data

Word count summary


"The noodles were cooked perfectly - just the right amount of chewiness. The broth was not bad."

"Fantastic variety of classic noodle dishes and unique fusion options. Something for everyone!"

"The servers were very helpful and efficient."

"The curry noodles were delicious - I'd definitely get them again, but I wish there were more vegetarian options."

"The menu was overwhelming I almost didn't order anything. Our water was very friendly and helped me decide."



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CISCO Academy

2. Choose the right AI or non-AI tool for the task

Label reviews with Topics

State your goal Help me to label reviews by topics and give a "relevance" score based on how important the review is to the business.

Describe the data The data are customer reviews of a noodle restaurant. Each review has a unique_id associated with it.

Explicitly define what you want and how you want it

Create a table with the following columns:

- column 1: unique_id**
- column 2: relevance:** a score from 0 to 5 based on how serious, impactful or important the review is to the business. 0 is least relevant, 5 is most relevant, which means that it is insightful, serious, urgent or actionable.
- column 3: review:** Keep the review the same as you see it in the original data.
 - If the review is surrounded with double quotes, keep those double quotes, as they are used to preserve the CSV format of the table.
 - If the review is not surrounded by double quotes, do not add them.
- column 4: topics:** one or more short phrases that describe the topic. Topics can be open-ended and do not have to apply to multiple reviews to be considered topics. Separate topics with a "||".

Process every review, one at a time. Do not end early or skip any rows of data.

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CISCO Academy

3. Redefine tasks to make the output more reliable

Why specify output order?

Output the rows of topics in the same order as in the provided input table, to ensure that you process every topic found in the input table.

Original topic table

Topic-theme output table without specifying output order


When rows were grouped by themes,

Networking
CISCO Academy

4. Use tables to assist with "human in the loop" review

Human in the Loop

Are the themes accurate?



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CISCO Academy

Cisco U. Free Learning Resources

FREE

Understanding AI and LLMs as a Network Engineer | AI4NE

Explore theory, background, and use cases for AI and LLMs over the course of a network engineer's day-to-day tasks.

▲ Beginner ● 55m 📄 1 assessment 📖 1 Course 📄 v1.0 📅 Updated Feb, 2025

🗣️ Languages: English

[Sign in to start for free](#)

Description

The Understanding AI and LLMs as a Network Engineer (AI4NE) Learning Path provides theory, background, and use cases for AI and LLMs over the course of a network engineer's day-to-day tasks. To receive the completion badge, please return to the learning path overview page after the tutorial and complete the post assessment.

Skills you'll learn

- Explore different types of AI, including GenAI and LLM using ChatGPT
- Learn foundational skills needed to prepare for the Cisco Certified Network Associate (CCNA) certification

About

Created	Updated	Version
Feb 5, 2025	Feb 5, 2025	1.0



Relevant Tutorials

TUTORIAL

Understanding AI and LLMs as a Network Engineer
By Kareem Iskander

[Free](#)

▲ Beginner ● 55m
📅 Updated Feb, 2025

TUTORIAL

Hands-On ChatGPT: Cisco pyATS and Genie
By Jason Belk

[Free](#)

▲ Beginner ● 45m
📅 Updated Jan, 2025

TUTORIAL

Hands-On ChatGPT: Generating Documentation from Technical Sources
By Kareem Iskander

[Free](#)

▲ Beginner ● 20m
📅 Updated Jan, 2025

TUTORIAL

Hands-On ChatGPT: A Practical Guide to Networking Prompt Templating
By Jason Belk

[Free](#)

▲ Beginner ● 45m
📅 Updated Jan, 2025

TUTORIAL

Hands-On ChatGPT: Exploring the ChatGPT API
By Jason Belk

[Free](#)

▲ Beginner ● 45m
📅 Updated Jan, 2025

TUTORIAL

Hands-On ChatGPT: Leveling Up Your Network Engineering GPT Prompts
By Jason Belk

[Free](#)

▲ Beginner ● 20m
📅 Updated Jan, 2025

TUTORIAL

Hands-On ChatGPT: A Coding Guide for Network Engineers Uncomfortable with Python
By Kareem Iskander

[Free](#)

▲ Beginner ● 55m
📅 Updated Jan, 2025

TUTORIAL

Hands-On ChatGPT: Building Infrastructure as Code
By Jason Belk

[Free](#)

▲ Beginner ● 45m
📅 Updated Jan, 2025

TUTORIAL

Hands-On ChatGPT: Troubleshooting PC Connectivity
By Quinn Snyder

[Free](#)

▲ Beginner ● 45m
📅 Updated Jan, 2025

TUTORIAL

Run Your Own LLM Locally For Free and with Ease
By Jason Belk

[Free](#) [New](#)

▲ Beginner ● 15m
📅 Updated May, 2025

TUTORIAL

SCAZT: Using Cisco XDR Investigate to Deter Cybersecurity Threats
By Patrick Lao

[Free](#)

● Intermediate ● 20m
📅 Updated Jan, 2025

TUTORIAL

Introduction to Retrieval-Augmented Generation
By Jason Belk

[Free](#)

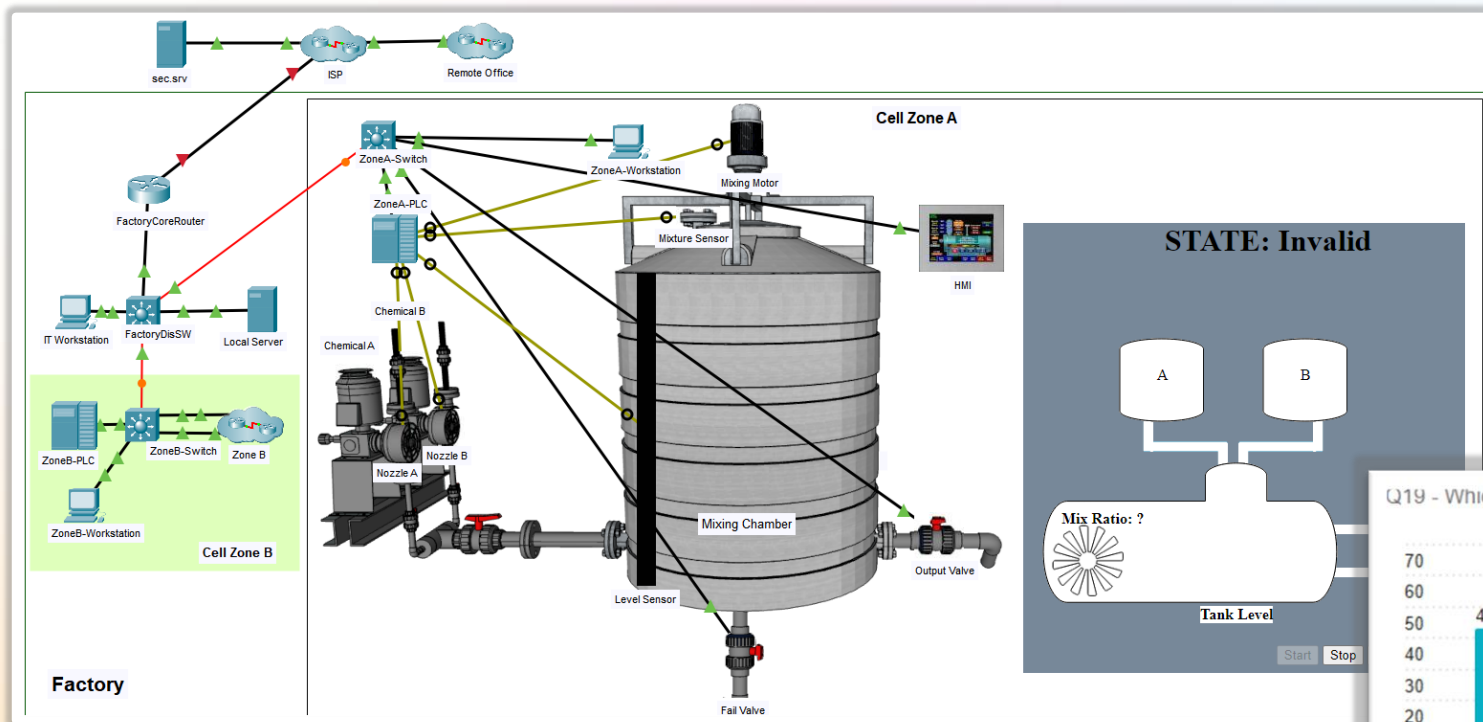
▲ Beginner ● 27m
📅 Updated Jan, 2025



**Priority #3:
Deliver Innovative, Effective
Learning Experiences**

Cisco Packet Tracer 9.0.0

Cisco Packet Tracer, a leading tool for practicing ICT skills, becomes even more unique in its latest version by empowering users to practice entry-level industrial skills. It enables practice of industrial processes, device connectivity and configuration, troubleshooting, and securing, with support for industrial-specific protocols - using just a simple PC.

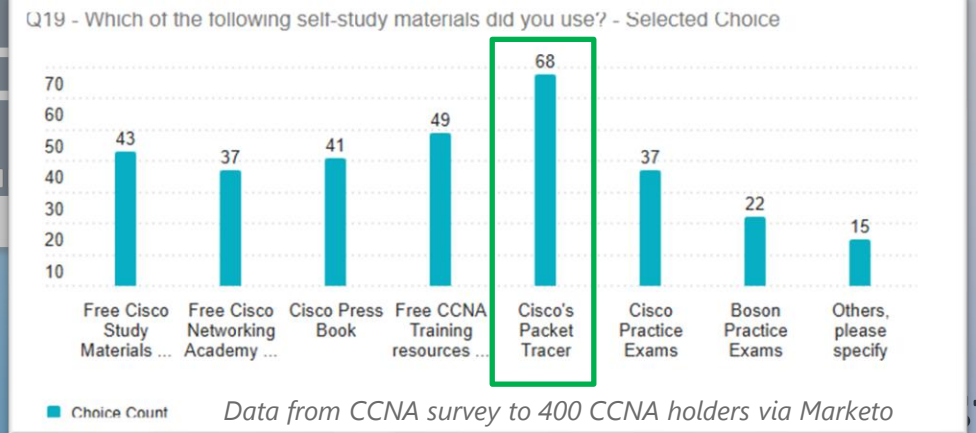
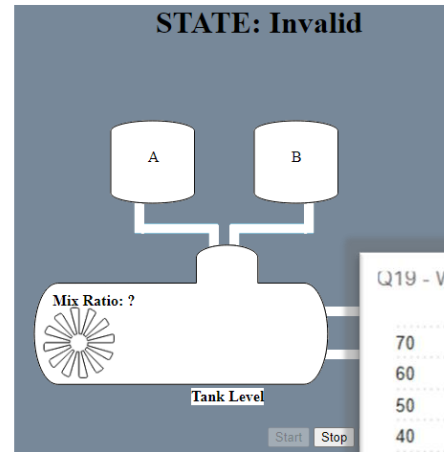


Simulate a factory for mixing raw materials

Industrial Switch

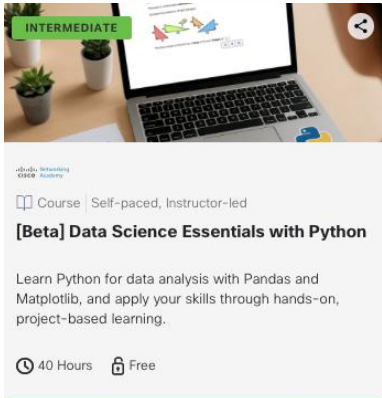


Industrial Router



Interactive Learning

Data Science Essentials With Python



INTERMEDIATE

Course | Self-paced, Instructor-led

[Beta] Data Science Essentials with Python

Learn Python for data analysis with Pandas and Matplotlib, and apply your skills through hands-on, project-based learning.

40 Hours Free

- Project-based
- AI personalized and graphical feedback
- Game-based activities

Digital Literacy



BEGINNER

Course | Self-paced, Instructor-led

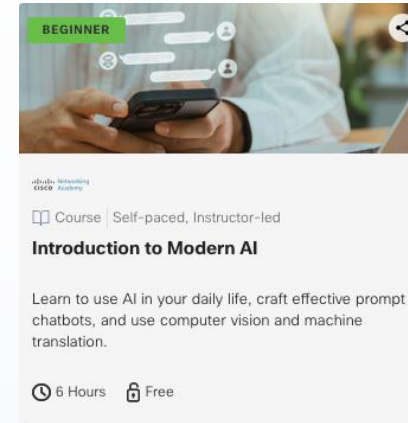
Digital Awareness

Learn practical digital skills you can apply at home, school, or work, and how to stay safe online.

6 Hours Free

- In-browser simulation environments

Intro to Modern AI



BEGINNER

Course | Self-paced, Instructor-led

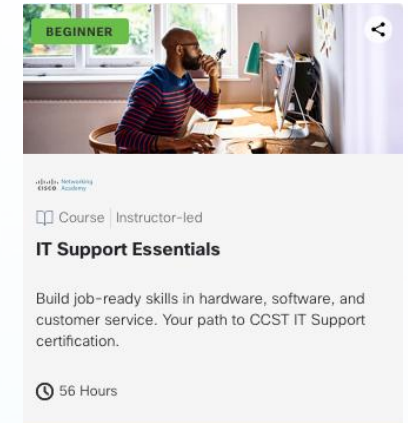
Introduction to Modern AI

Learn to use AI in your daily life, craft effective prompt chatbots, and use computer vision and machine translation.

6 Hours Free

- Unique Personality Video Instruction
- Using Free Tools and downloadable models

CCST IT Support



BEGINNER

Course | Instructor-led

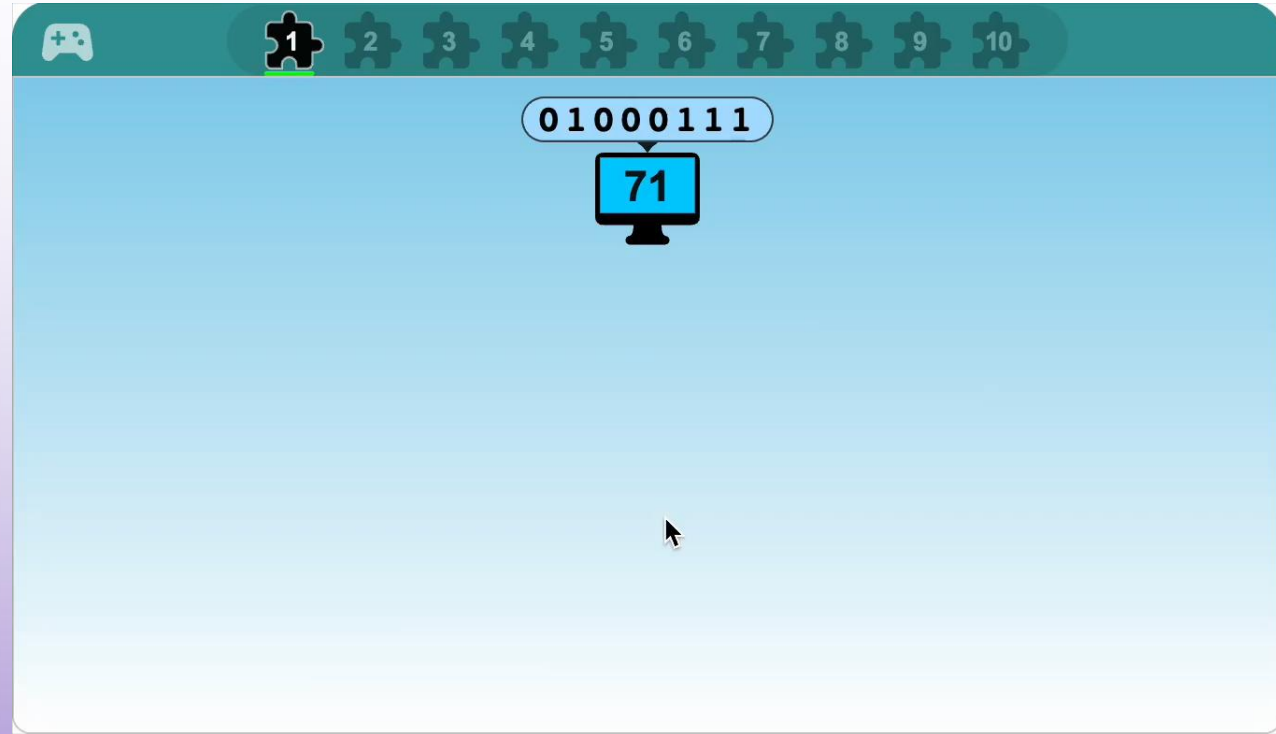
IT Support Essentials

Build job-ready skills in hardware, software, and customer service. Your path to CCST IT Support certification.

56 Hours

- 103 Hands-on Labs

Interactive Learning – Subnetting Game (coming soon)



Cisco Networking Academy Portfolio

		Cybersecurity	Networking	AI & Data Science	Programming	Information Technology	Digital Literacy	Cisco Packet Tracer
Introductory		Introduction to Cybersecurity <i>Featured module: AI Security Nuggets</i>	Introduction to IoT and Digital Transformation Industrial Networking Essentials	Introduction to Data Science Introduction To Modern AI Practice with AI: Customer Reviews AI Fundamentals with IBM SkillsBuild AI with Intel Learning Collection <i>Featured module: The Road to Intelligent Machines</i>		Computer Hardware Basics Operating System Basics Linux Unhatched	Digital Awareness Using Computer and Mobile Devices Create Digital Content, Communicate, and Collaborate Online Digital Safety and Security Awareness	Getting Started with Cisco Packet Tracer Exploring Networking with Cisco Packet Tracer Exploring Internet of Things with Cisco Packet Tracer
Intermediate	Aligned to Entry-level Certification	Cybersecurity Essentials Endpoint Security Network Defense Cyber Threat Management	Networking Essentials Networking Basics Networking Devices and Initial Configuration Network Addressing and Basic Troubleshooting Network Support and Security		Python Essentials 1 JavaScript Essentials 1 C Essentials 1 C++ Essentials 1 CSS Essentials HTML Essentials	IT Essentials Linux Essentials IT Support Essentials IT Customer Support Basics Operating Systems Support Security and Connectivity Support Hardware and Upgrade Support		
	Aligned to Associate level Certification	CyberOps Associate Ethical Hacker	CCNA: Introduction to Networks CCNA: Switching, Routing, and Wireless Essentials CCNA: Enterprise Networking, Security, & Automation DevNet Associate		Python Essentials 2 JavaScript Essentials 2 C Essentials 2 C Advanced C++ Essentials 2 C++ Advanced	Linux 1 Linux 2		
		Network Security		Data Analytics Essentials				

Professional Skills

Core Skills

- Creating Compelling Reports
- Engaging Stakeholders for Success

English for IT

- English for IT 1 and 2

Entrepreneurship

- Discovering Entrepreneurship
- Launching a Business Venture
- Managing a Business Venture

Career Resources

- Career Preparation Workshop

Practice Tools

Labs

- Cisco Packet Tracer
- Virtual machines
- Remote labs
- Physical equipment

Interactive Learning

- Built-in web widgets
- Interactive branching activities

Assessments

- Adaptive assessments powered by AI
- Formative quizzes and exams
- Summative exams

Bez vašej každodennej práce s novou generáciou študentov vo vašich triedach by to nešlo.

***Ďakujem vám,
že tvoríte lepšiu budúcnosť.***

Thank you

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