

Meet our presenters



Jozef Janitor

Product Manager



Shantae Pelt

Product Marketing Manager



Jose Avalos

Product Marketing Manager

Educators Guide to Shaping Future Tech Careers with CCST and CCNA



Instructors Professional Development (IPD) Session - FY26 Q1

Jozef Janitor
Product Manager

Shantae Pelt
Product Marketing Manager

Jose Avalos
Product Marketing Manager

Aug 12, 2025

Agenda

- IT Jobs and the Value of Industry Recognized Certifications
- Cisco Networking Academy Learning Journeys
 - Entry-Level Pathways (CCST)
 - Associate-Level Pathways (CCNA)
 - Curriculum, Labs, and Learning Tools with DEMO!
 - Exploring resources for educators and learners
- Building well-rounded, future-ready graduates
 - Professional Skills & AI Skills Offerings
- Community, resources, and real-world impact
- Next Steps & Q&A



Entry
IT Specialist



Associate
Network Administrator



Professional
Network Engineer



Expert
Senior Network Engineer

Benefits of Industry Recognized Certifications

Build Your Technical Skills:

Develop a deep understanding of networking principles, protocols, and configurations.

Acquire the expertise to design, implement, and manage network infrastructures effectively.

Boost Your Professional Credibility:

Earn respect from colleagues and employers by showcasing your commitment to networking excellence.

Stay Current with Industry Trends: align with the latest industry trends, ensuring your skills remain relevant.

The benefits of certification are real:

99% of organizations surveyed use technical certifications to make hiring decisions.

91% of employers believe IT certifications are a reliable predictor of a successful employee.

81% of employers' associate IT certification holders with increased quality and value of work contribution.

Cisco Certifications are time-honored proof you know what you're doing. Plus, they're ANSI and NIST certified, which means they're industry certs with greater value in the marketplace.

¹ [Pearson VUE 2023 Value of IT Certification](#)

The Learning Journey: From Zero to Career-Ready and Beyond

- Start: Entry-Level Certifications (CCST)
- Advance: Associate-Level Certifications (CCNA)
- Enrich: Professional & AI Skills
- Outcome: Well-rounded, job-ready graduates
- Career growth (CCNP, CCIE)



Cisco Certified Support Technician (CCST) Certifications

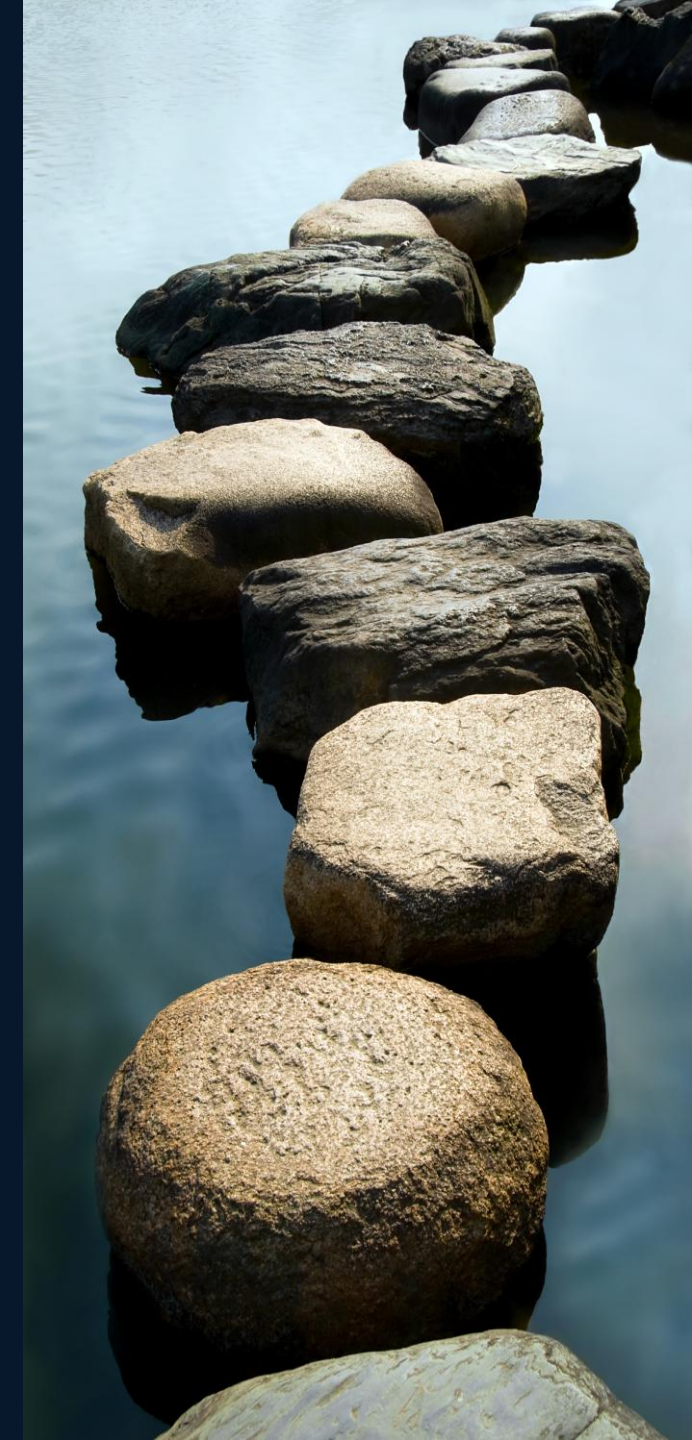
Shantae Pelt

Product Marketing Manager

Cisco Certified Support Technician (CCST) Certifications

About the certification program:

- Is ideal steppingstone for entry-level job seekers, career changers, and college and high school students
- Enables job seekers to show third-party verification of their skills in applications for internships, apprenticeships, and entry-level job roles
- Validates entry-level skills in areas like IT support, networking and cybersecurity
- Provides candidates with an early, achievable milestone, and creates a steppingstone to associate-level certifications like CCNA
- Free certification-aligned curriculum from Cisco Networking Academy, available instructor-led and self-paced



CCST certifications and related job roles

CCST IT Support



IT End User Support



IT Help Desk Support



Computer Support Specialist



IT Help Desk Analyst



CCST Networking



Network Support Technician



IT Support Technician



Help Desk Technician



IT Support Specialist



CCST Cybersecurity



Junior Cybersecurity Analyst



Cybersecurity Technician



Help Desk Support



Security Operations Analyst



CCST certifications and knowledge domains

CCST IT Support

Validates candidate's skills and knowledge of IT support tasks, including:

- Queue and time management
- Documentation
- Troubleshooting
- Assisting end users
- Managing computer components
- Identifying security threats



CCST Networking

Validates candidate's skills and knowledge of:

- Entry-level networking concepts and topics
- Foundational knowledge of network operations
- Endpoints and media types
- Network troubleshooting methodologies
- Network support and security



CCST Cybersecurity

Validates candidate's skills and knowledge of:

- Cybersecurity principles
- Network security and endpoint security concepts
- Vulnerability assessment and risk management
- Incident handling



Cisco FY24 CCST Survey

Munganga T.M., Sweden

I learned new skills and gained more confidence in the field, motivated to know more and be of help in securing people's data and networks.

Isaac M., Kenya

Helping me acquire job ready skills

Tavana H., USA

It helped me to take the first step in my new career

Challenging myself to explore a new career path.

Matthew B., USA

Demonstrating myself that I really am up for every single thing I get through everyday, and getting a Cisco certification I showcase the skills and abilities I've developed during my studying journey and that I can adapt to every challenge the life always sets me up. I am really proud of myself and of what I've got so far.

Martín O., Mexico

Giving me a greater sense of confidence in my knowledge of networking and security and a new found drive to complete my CCNA and transition from help desk work to working in networking. It's also helped me negotiate an extra 2K raise on my contract at my current company.

Alyssa M., USA

It helps show my expertise and knowledge on LinkedIn. Also helps with imposter syndrome even though you are an expert you might feel that which is the worst-case scenario.

Arda I., Turkey

IT Support Specialist

Description:

Entry-level IT support technicians possess the foundational knowledge and hands-on skills required to diagnose and resolve common hardware, software, and network-related issues.

They deliver excellent customer service, support end users, and document interactions while following best practices in safety, troubleshooting, and data confidentiality. These technicians are essential in help desk, technical support, and IT administration roles.



Other job titles:

- Entry-level IT Support Technician
- Entry-level Help Desk Technician
- IT Support Specialist
- Tier 1 Help Desk Support
- Technical Support Representative
- Service Desk Analyst

Experience level:

0–1 years

Skills:

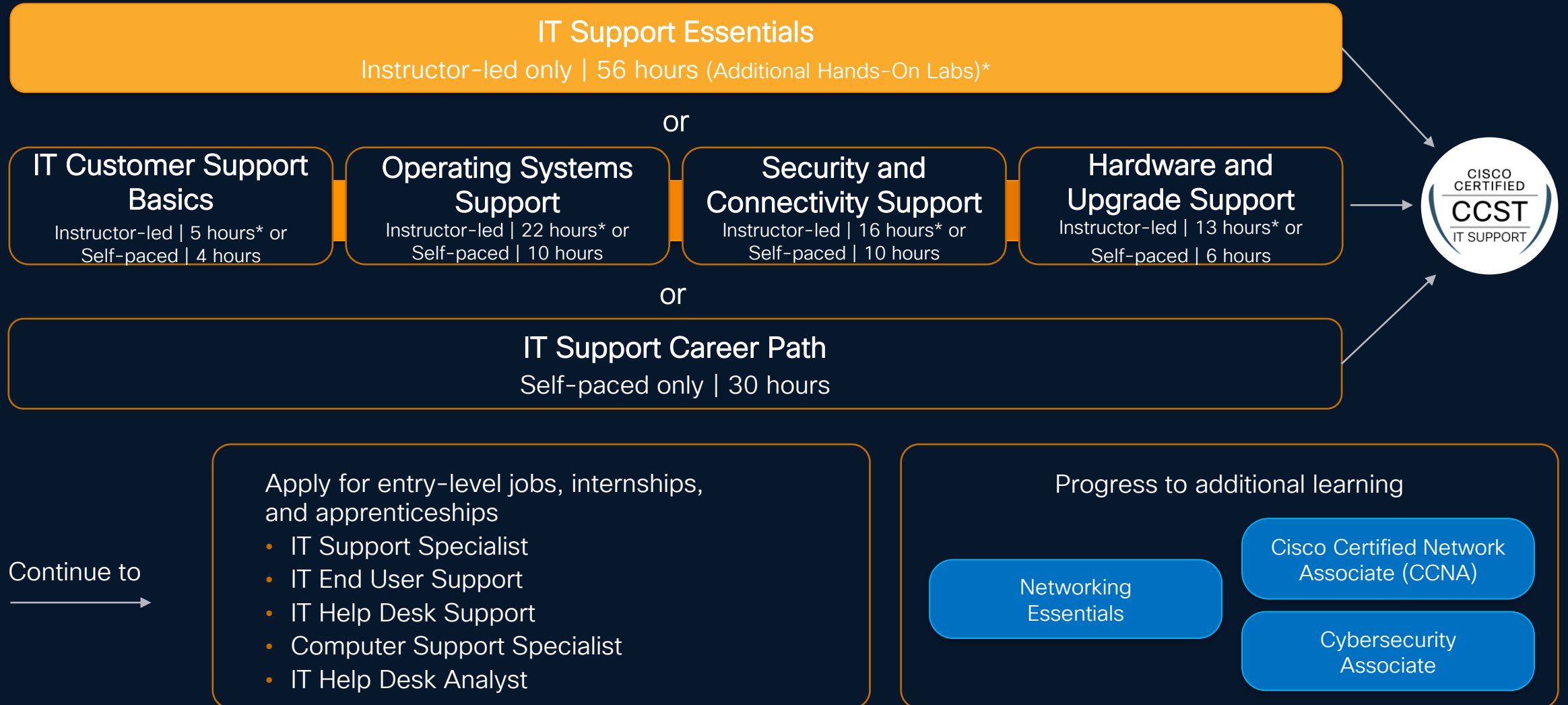
- ✓ Diagnose and resolve common hardware, software, and network issues
- ✓ Provide professional and effective customer service and communication
- ✓ Troubleshoot Windows, macOS, and mobile devices
- ✓ Assist with user access, device setup, and network connectivity
- ✓ Document support interactions and solutions
- ✓ Apply safety, security, and confidentiality procedures

Desired Certification:

Cisco Certified Support Technician – IT Support



Flexible curriculum for CCST IT Support



Network Support Technician

Description:

Entry-level network support personnel have the foundational knowledge and skills necessary to demonstrate how networks operate, including the devices, media, and protocols that enable network communication.

Not yet ready to take lead roles but have a broad range of knowledge and skills to participate in and assist with tasks performed by seasoned networking professionals.



Other job titles:

- Entry-level IT Support Technician
- Entry-level Help Desk Technician
- IT Support Specialist
- Tier 1 Help Desk Support

Skills:

- ✓ Explain basic network fundamentals.
- ✓ Identify common network devices, components, and accessories; end point devices, routers, switches, access points.
- ✓ Perform basic troubleshooting and demonstrate effective methodologies and help desk best practices.
- ✓ Explain foundational security concepts.

Experience level:

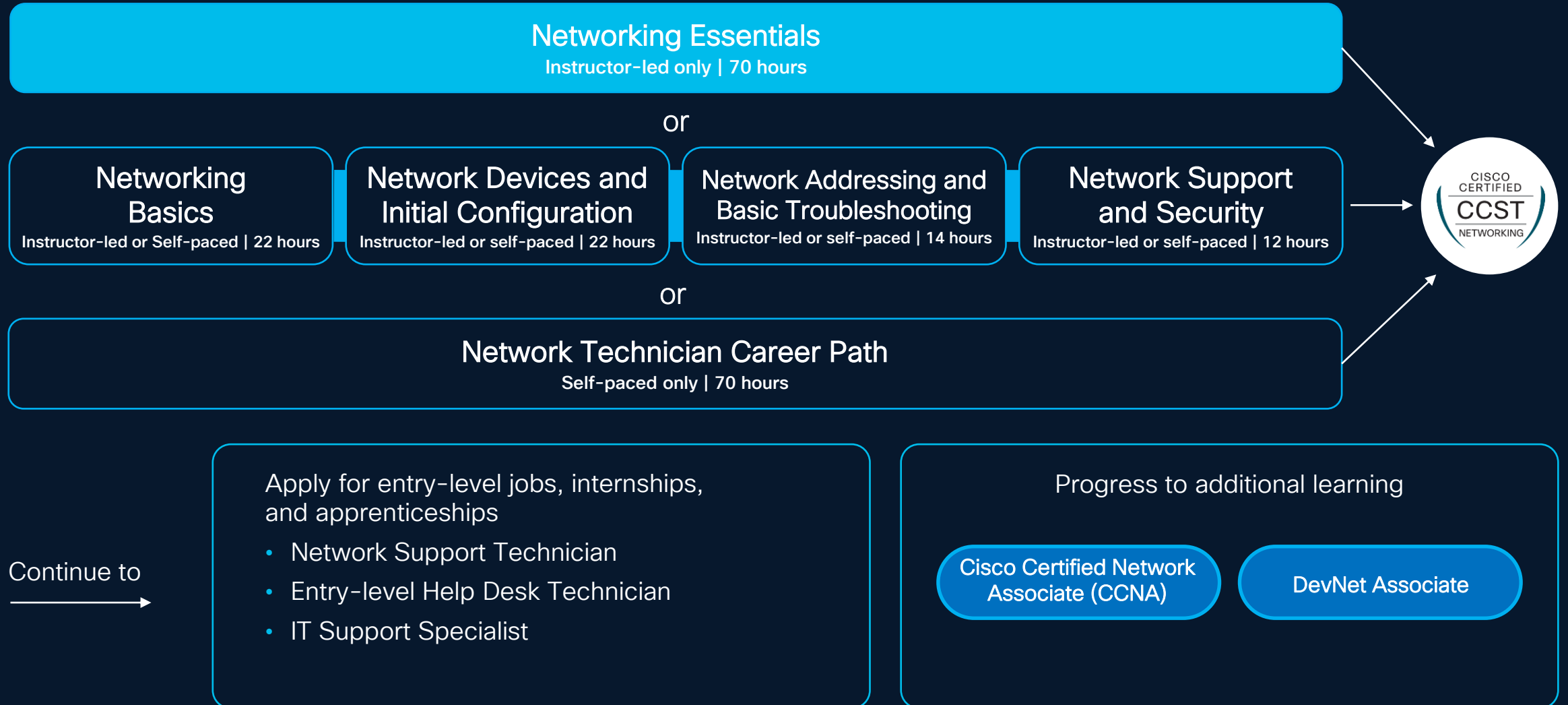
0-1 years

Desired Certification:

Cisco Certified Support Technician - Networking



Flexible curriculum for CCST Networking



Junior Cybersecurity Analyst

Description:

Security operations personnel that supports and participates in cybersecurity-related activities, including vulnerability assessment, incident handling, and security reporting and documentation.

Not yet ready to take lead roles but have a broad range of knowledge and skills to participate in and assist with tasks performed by seasoned cybersecurity professionals.



Aliases:

- Junior Cybersecurity Technician
- Cybersecurity Support
- Cybersecurity Specialist
- IT Technician with Security Focus
- Tier 1 Help Desk Support

Skills:

- ✓ Understand core security concepts
- ✓ Assist with network security and data analysis
- ✓ Assist with systems and software security, including malware, cloud & endpoint security, and identity management
- ✓ Assist in applying risk management principles and processes
- ✓ Assist in incident response and disaster recovery

Experience level:

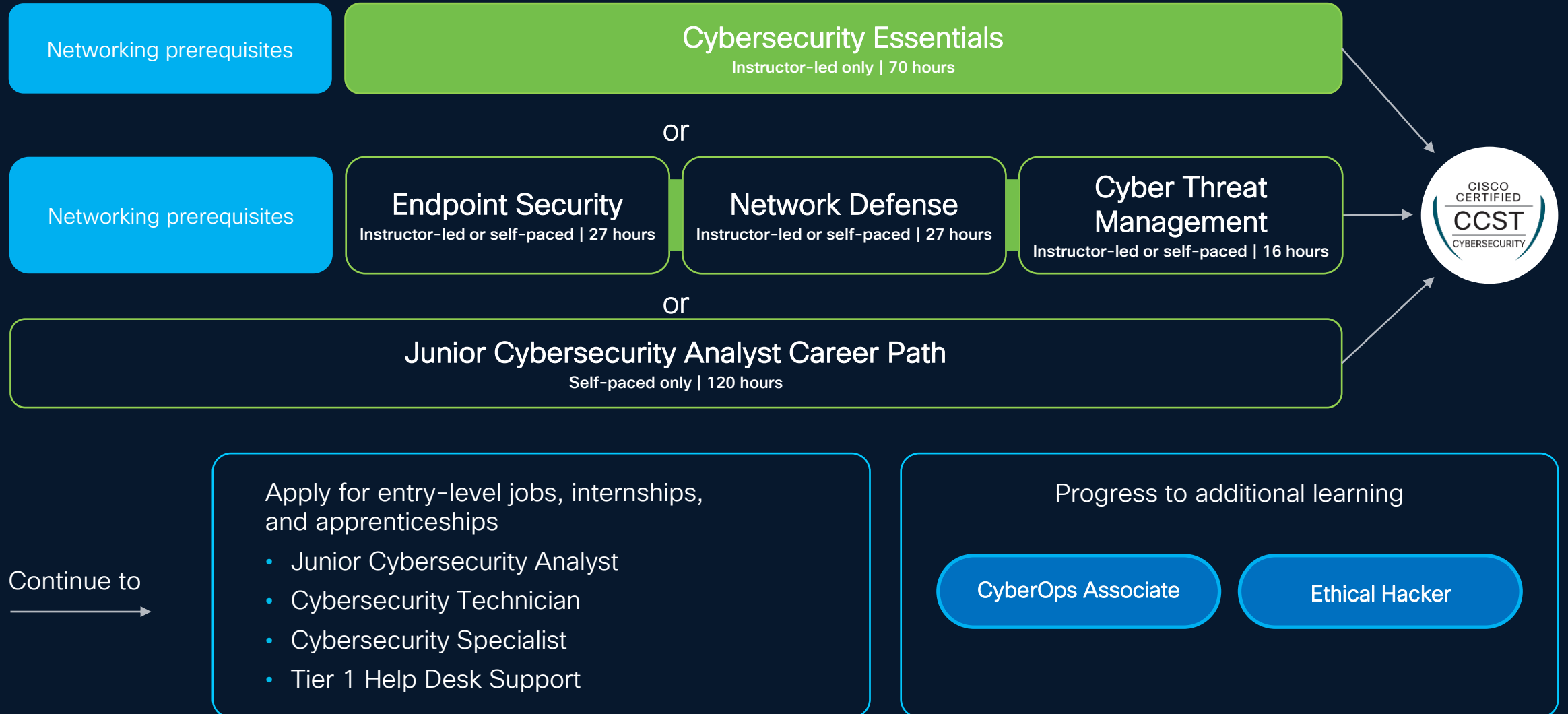
0-1 years

Desired Certification:

Cisco Certified Support Technician (CCST) Cybersecurity



Flexible curriculum for CCST Cybersecurity



Ask Me Anything (AMA) Sessions

What We're Doing:

Cisco Networking Academy and Cisco Learning & Certifications are teaming up to host **Ask Me Anything (AMA)** sessions on the Cisco Learning Network, focusing on **CCST certifications** and **Ethical Hacking**.

These sessions will feature **Cisco Subject Matter Experts (SMEs)** answering live questions from students, instructors and other participants fostering engagement and knowledge sharing.

To participate in the AMA sessions, you'll need a Cisco Learning Network account ⚠️

Getting setup is quick and easy:

1. Visit learningnetwork.cisco.com
2. Click "Login" in the top right corner
3. When prompted, click "Sign up"

Past sessions



The banner features a background image of three people in a collaborative office setting. On the left, a man with glasses and a beard is smiling and looking towards the right. Behind him, a woman with red hair is partially visible. The text is overlaid on a dark blue wavy shape.

CISCO

ASK ME ANYTHING

CCST Certifications

June 3, 2025
10:00am - 11:00am PT

[Register now](#)



The banner features a background image of two people working at a computer. A man with glasses and a beard is pointing at the screen, while a woman with long dark hair looks on. The text is overlaid on a blue wavy shape.

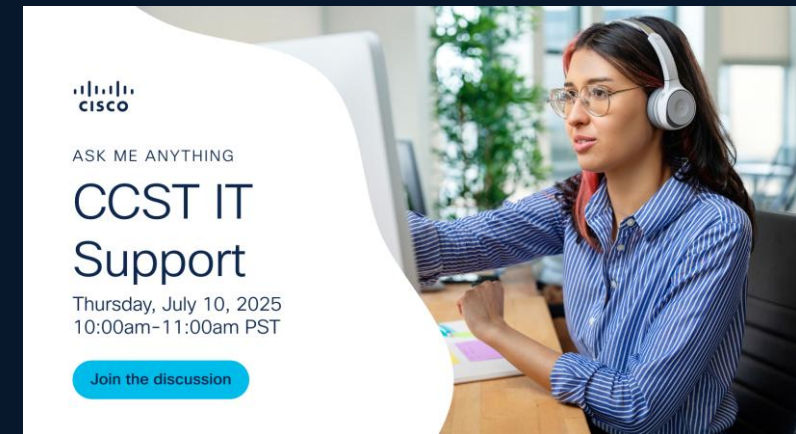
CISCO

ASK ME ANYTHING

CCST Cybersecurity

Tuesday, June 25, 2025
10:00am - 11:00am PST

[Join the discussion](#)



The banner features a background image of a woman with long dark hair wearing headphones and looking at a computer screen. The text is overlaid on a white wavy shape.

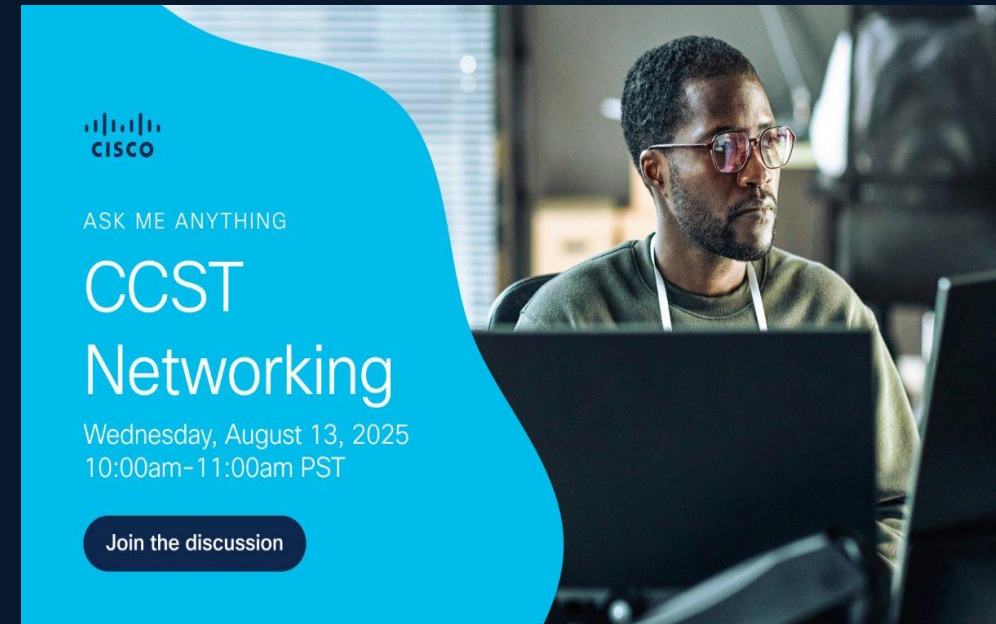
CISCO

ASK ME ANYTHING

CCST IT Support

Thursday, July 10, 2025
10:00am - 11:00am PST

[Join the discussion](#)



The banner features a background image of a man with glasses and a beard looking at a computer screen. The text is overlaid on a blue wavy shape.

CISCO

ASK ME ANYTHING

CCST Networking

Wednesday, August 13, 2025
10:00am - 11:00am PST

[Join the discussion](#)

Demo

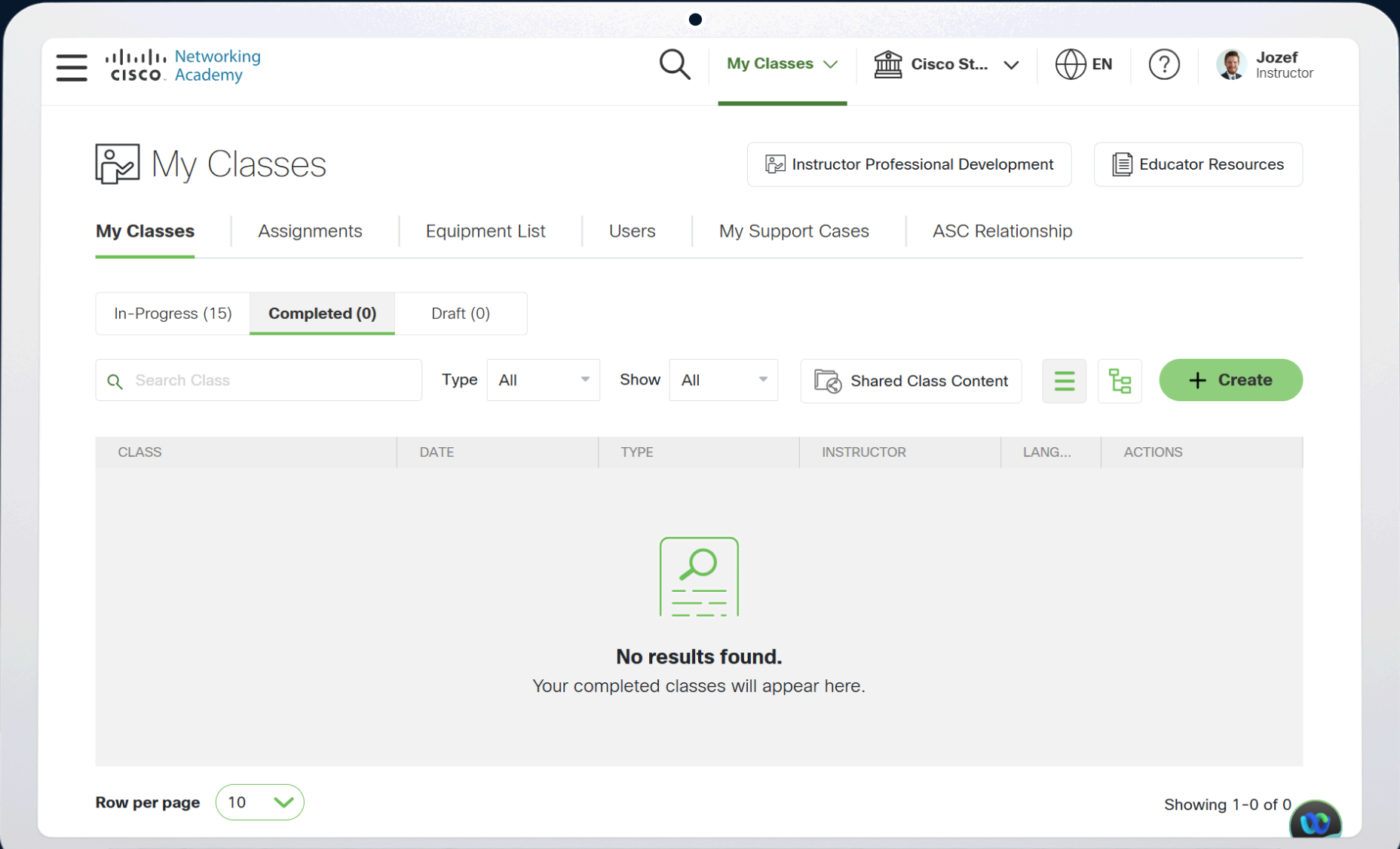
Jozef Janitor

Product Manager

Instructor's experience

Demo

Creating a new class instance on netacad.com



Select the Instructor Led option

Networking Academy

My Classes

Cisco St...

EN

Jozef Instructor

1

SELECT CLASS TYPE

2

SELECT OFFER

3

SELECT LANGUAGE

4

CREATE SCHEDULE

5

CLASS DETAILS

6

INVITE INSTRUCTOR/ASSISTANTS

7

WEBEX FOR CLASS

8

PREVIEW & PUBLISH

Let's Get Started!

Select the type of class you want to create.



Self-Paced



Instructor Led

☐

Mark as a 'Trial Class'
Learn how to create a class and understand how it works by creating a sample trial class.

Cancel

Next

Select the course from the list

Networking Academy

My Classes

Cisco St...

EN

Jozef Instructor

Create Class

1

SELECT CLASS TYPE

2

SELECT OFFER

3

SELECT LANGUAGE

4

CREATE SCHEDULE

5

CLASS DETAILS

6

INVITE INSTRUCTOR/ASSISTANTS

7

WEBEX FOR CLASS

8

PREVIEW & PUBLISH

Course

Exam

☒ Select template

☐ Select from existing classes

Essentials

Course

Cybersecurity Essentials

Preview

Cyber attacks increase with...

العربية (Arabic)

+8

70 Hours

Beginner

Course

Networking Essentials

Preview

Networks keep the digital world...

العربية (Arabic)

+4

70 Hours

Intermediate

Cancel

Previous

Next

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CISCO

Select the language

Networking
cisco Academy

My Classes

Cisco St...

EN

Jozef
Instructor

Create Class

✓

SELECT CLASS TYPE

✓

SELECT OFFER

3

SELECT LANGUAGE

4

CREATE SCHEDULE

5

CLASS DETAILS

6

INVITE
INSTRUCTOR/ASSISTANTS

7

WEBEX FOR CLASS

8

PREVIEW & PUBLISH

Select Language

Select Default Language

العربية (Arabic)

English (English)

Español (Spanish)

Français (French)

日本語 (Japanese)

Português (Brazilian Portuguese)

Română (Romanian)

Türkçe (Turkish)

Український (Ukrainian)

Cancel

Previous

Next

Explore the Assignment Flow of your class instance

The screenshot displays the Cisco Networking Academy interface for a class titled "My Own Class of Cybersecurity Essentials". The interface includes a top navigation bar with the Cisco Networking Academy logo, the class title, and several utility icons (list, book, bar chart, megaphone, and a close button). Below the navigation bar, there is a green "+ Create" button and a "View as learner" button. A "Collapse All" button is also present. The main content area shows a list of assignments under the heading "Cybersecurity Essentials". Each assignment card includes a document icon, the assignment title, a "Due Date" of "30 Nov 2025 11:59 PM", and a green arrow icon. The assignments listed are: "Course Introduction", "Module 1: Cybersecurity Threats, Vulnerabilities, and Attacks", "Module 2: Securing Networks", "Module 3: Attacking the Foundation", and "Module 4: Attacking What We Do". A small circular icon with a blue and green swirl is visible in the bottom right corner of the assignment list.

Networking Academy | My Own Class of Cybersecurity Essentials

+ Create | View as learner | Collapse All

Cybersecurity Essentials

- Course Introduction** | Due Date: 30 Nov 2025 11:59 PM
- Module 1: Cybersecurity Threats, Vulnerabilities, and Attacks** | Due Date: 30 Nov 2025 11:59 PM
- Module 2: Securing Networks** | Due Date: 30 Nov 2025 11:59 PM
- Module 3: Attacking the Foundation** | Due Date: 30 Nov 2025 11:59 PM
- Module 4: Attacking What We Do** | Due Date: 30 Nov 2025 11:59 PM

Explore the course contents

 **Networking Academy**

My Own Class of Cybersecurity Essentials



Course Outline | **Resources**

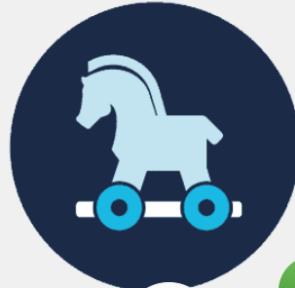
Search course outline | 

- 1.3.1 What's the Difference?
- 1.3.2 Logic Bombs
- 1.3.3 Ransomware
- 1.3.4 Denial of Service Attacks
- 1.3.5 Avatar
- 1.3.6 Domain Name System
- 1.3.7 Layer 2 Attacks
- 1.3.8 Spot the Attack
- 1.3.9 Man-in-the-Middle and Man-in-the-Mobile Attacks
- 1.3.10 Avatar
- 1.3.11 Zero-Day Attacks
- 1.3.12 Keyboard Logging
- 1.3.13 Avatar
- 1.3.14 Confirm Your Details

1.3.1 What's the Difference?

Cybercriminals use many different types of malicious software, or malware, to carry out attacks. Malware is any code that can be used to steal data, bypass access controls or cause harm to or compromise a system.

Select the pin icons to find out more about three of the most common types of malware.







Explore the course built-in resources

Networking Academy My Own Class of Cybersecurity Essentials

Course Outline **Resources**

Search Resources

Course Resources

- Cybersecurity Essentials v3.0 Module Slides
- Cybersecurity Essentials v3.0 Overview

Instructor Added Resources + Add Resource

No Resources Available

Join Cisco Learning Network
A Cisco community with thousands of

My Knowledge Check

Check your Skills
Cybersecurity Essentials

Before you start the course, answer questions to check how much you already know.

Instructions

- My Knowledge Check uses advanced Artificial Intelligence (AI) to assess your knowledge and skill on every topic in the course. Your results can help you decide how to navigate through the course. You may choose to spend more time in areas where you need additional focus or speed through areas where you already have a strong understanding.
- My Knowledge Check is completely optional. You can come back to My Knowledge Check anytime to review your history and take it again to see your learning progress.
- Click the My Knowledge Check button to begin. Read each question, select your answer, and submit. If you do not know an answer, that's ok! To get accurate results, try not to guess. Simply choose 'I don't know the answer' and there is no penalty. At the end of the My Knowledge Check, you can review all your answers and make changes before submitting.
- Cisco Packet Tracer may be referenced in My Knowledge Check. If you are unfamiliar with Cisco Packet Tracer and curious to learn more, check out [Getting Started with Cisco Packet Tracer](#).

Explore even more resources from the Educator Resources

The screenshot displays the Cisco Networking Academy website interface. At the top, the Cisco Networking Academy logo is on the left, and navigation links for 'My Classes', 'Bev Face...', 'EN', and a user profile 'Jozef Instructor' are on the right. Below the header, there are three tabs: 'Learning Catalog', 'Educator Resources' (highlighted with a pink box), and 'Partner Resources'. The 'Educator Resources' section is divided into two main areas. On the left, under 'BY RESOURCE TYPE', there are links for 'About the program', 'Teaching and learning' (highlighted), 'Practice tools and labs', and 'Instructor Professional Development'. The main content area, titled 'TEACHING AND LEARNING', provides a brief description and lists three resources: 'Learning Portfolio Overview' (a slide deck), 'Educator Quick Start Guide' (a transition guide), and 'CCST Certifications and Courses Overview' (an overview of entry-level certifications). Each resource card includes a document icon, the title, and a short description. At the bottom of this section, there is a green button labeled 'Learn more about teaching and learning' and a link 'View all'. On the right side of the page, there is a 'WHAT'S NEW' section featuring a woman's portrait and the article 'Educating Tomorrow's ICT Workforce'. Below this is a 'STAY INFORMED' section with links for 'News for educators', 'Upcoming events', and 'Recognition'. At the bottom right is a 'QUICK LINKS' section with links for 'Marketing resources', 'Certification discounts', and 'Find an ASC/ITC'. A green button labeled 'Browse educator resources' is located at the bottom left of the main content area.

Use Filters to find relevant content in Educator Resources

The screenshot displays the Cisco Academy Educator Resources interface. On the left, a sidebar titled 'Educator Resources' contains a 'Filters' section. This section is highlighted with a red rectangle and includes three filter categories: 'Category', 'Materials Type', and 'Language'. The 'Language' filter is currently expanded, showing a list of languages with 'English (English)' selected. The main content area, titled 'Course Materials', displays a grid of nine course material cards. Each card includes a file icon (PDF or ZIP), a title, a subtitle, and a date. The cards are filtered by 'Cybersecurity Essentials' and 'English (English)'. The cards are arranged in a 3x3 grid. The first row contains 'Cyber Threat Management v1.0 Overview', 'Cyber Threat Management v1.0 Scope and Sequence', and 'Cybersecurity Essentials 3.0 Instructor Lab Source Files'. The second row contains 'Cybersecurity Essentials 3.0 Instructor Packet Tracer Source Files', 'Cybersecurity Essentials 3.0 Packet Tracer Activity Files', and 'Cybersecurity Essentials 3.0 Scope and Sequence'. The third row contains 'Cybersecurity Essentials 3.0 Student Lab Source Files', 'Cybersecurity Essentials Errata', and 'Cybersecurity Essentials v2.0 Overview'.

Educator Resources

Filters

Category

- ☐ Modules
- ☐ Resources
- ☐ Articles
- ☒ Course Materials
- ☐ Instructor Trainings
- ☐ Instructor Professional Development
- ☐ Marketing
- ☐ Learning Collections

Materials Type

- ☐ Scope and Sequence
- ☐ Instructor Labs
- ☐ Packet Tracer
- ☐ Overview
- ☐ Instructor Slides

[Show More](#)

Course

Subject Areas

Language

- ☐ العربية (Arabic)
- ☐ Bahasa Indonesia (Indonesian)
- ☐ 中文(简体) (Chinese-Simplified)
- ☐ 中文(繁體) (Chinese-Traditional)
- ☐ Česká republika (Czech)
- ☐ Deutsch (German)
- ☒ English (English)

Course Materials

Course Materials X Cybersecurity Essentials X English (English) X Clear

Relevance

Course Material | Overview
Cyber Threat Management v1.0 Overview
20 Jun 2024

Course Material | Scope and Sequence
Cyber Threat Management v1.0 Scope and Sequence
20 Jun 2024

Course Material | Instructor Labs
Cybersecurity Essentials 3.0 Instructor Lab Source Files
14 Aug 2024

Course Material | Packet Tracer
Cybersecurity Essentials 3.0 Instructor Packet Tracer Source Files
26 Jul 2023

Course Material | Packet Tracer
Cybersecurity Essentials 3.0 Packet Tracer Activity Files
14 Aug 2024

Course Material | Scope and Sequence
Cybersecurity Essentials 3.0 Scope and Sequence
31 Jul 2024

Course Material | Instructor Labs
Cybersecurity Essentials 3.0 Student Lab Source Files

Course Material | Errata
Cybersecurity Essentials Errata

Course Material | Overview
Cybersecurity Essentials v2.0 Overview

Enable module assessments

The screenshot displays the Cisco Networking Academy interface for a module assessment. The top navigation bar includes the Cisco Networking Academy logo, the course title "My Own Class of Cybersecurity Essentials", and icons for a checklist, book, bar chart, and notification. Below this, the assessment title "Checkpoint Exam: Network Security" is shown with a back arrow and an "Edit details" button. To the right are tabs for "Assignment Content" (selected) and "Grades & Submission".

On the left side, a summary box contains the following information:

- DUE DATE:** 30 November 2025, 11:59 PM
- AVAILABLE FROM:** 31 July 2025, 05:52 PM
- POINTS:** 100
- ATTEMPTS:** Unlimited
- CATEGORY:** Assessment

Below this box, the "INSTRUCTIONS" section states "Checkpoint Exam: Network Security". At the bottom of the left sidebar is a green button with a right arrow and the text "Checkpoint Exam".

The main content area is titled "Checkpoint Exam" and includes a navigation bar with "Q1", "Q2", and "Q3" (the current question). The question text reads: "A cyber criminal sends a series of maliciously formatted packets to the database server. The server cannot parse the packets and the event causes the server to crash. What is the type of attack the cyber criminal launches?".

Four radio button options are provided:

- ☐ DoS
- ☐ man-in-the-middle
- ☒ packet Injection
- ☐ SQL injection

At the bottom of the interface, a progress bar shows "2 of 24 Questions", and buttons for "Skip All", "Skip Question", and "Submit" are visible.

Use the Final Exam for a summative assessment

 My Own Class of Cybersecurity Essentials



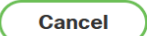
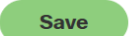
 Edit Assignment

Assignment Type ⓘ
Content Assignment ▼

Name*
Cybersecurity Essentials Course Final Exam

Description
Add Description

Instructions
  Paragraph ▼ **B** *I*    ▼        ▼  ▼
Cybersecurity Essentials Course Final Exam

Select Items From
  

Resources / References ✓

Availability ^
☐ Available Now ☒ Schedule Availability ⓘ
Available From
Nov 30, 2025  5:59 AM 
Until
Nov 30, 2025  11:59 PM 
Time Limit
☐ No time limit ☒ Set time limit
01 : 15 

Visibility ✓

Monitor progression in the gradebook

 My Own Class of Cybersecurity Essentials



UNGRADED SUBMISSIONS **GRADEBOOK**

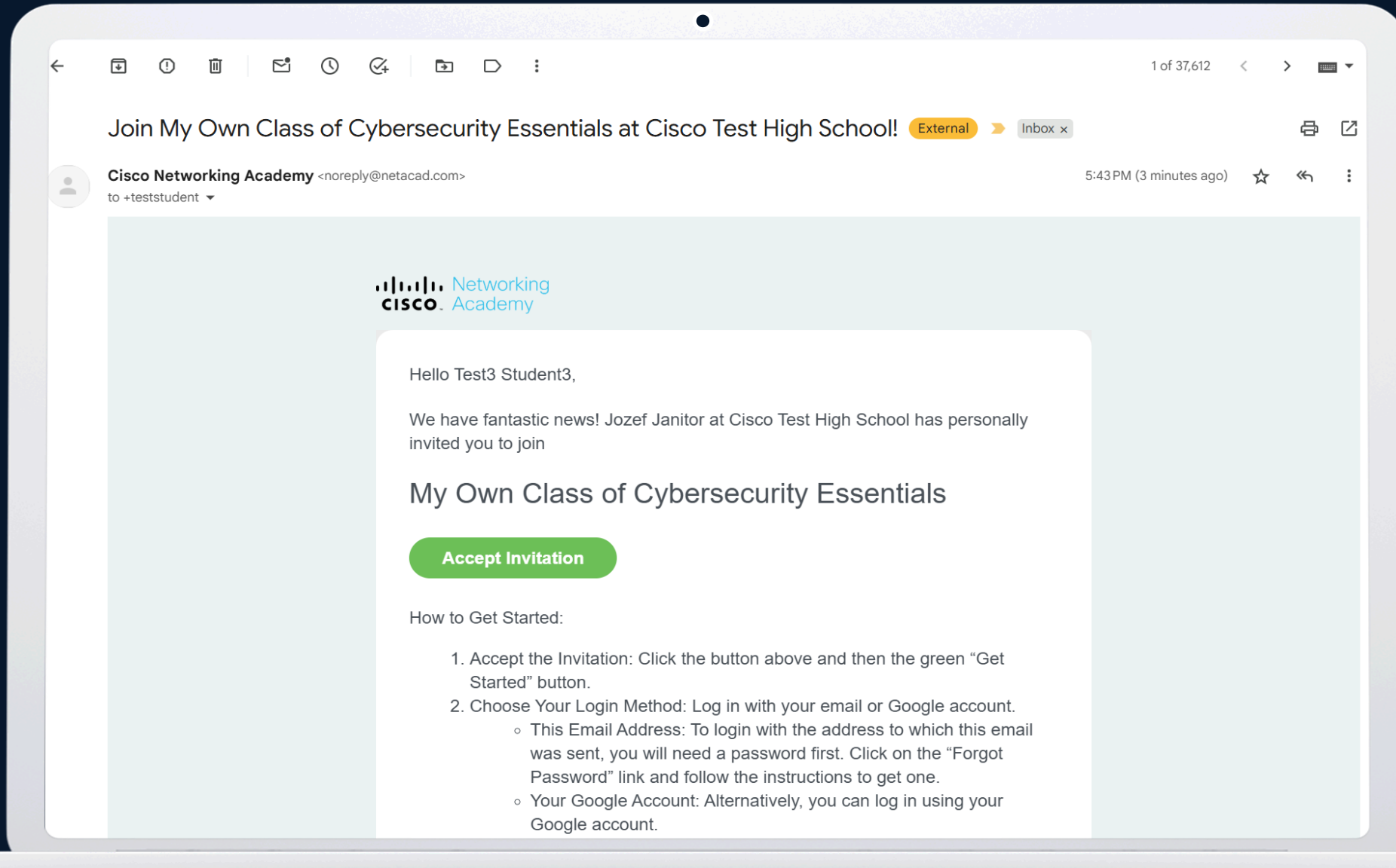
 Show All  [Reset](#) [Print Certificate](#)   

				Assessment 					
☐ Learner 		Final Exam	Survey	Marked Complete	Class Grades	Checkpoint Exam: Network Security   Due - 30 November 2025	Checkpoint Exam: OS and Endpoint Security   Due - 30 November 2025	Checkpoint Exam: Principles, Practices...   Due - 30 November 2025	Checkpoint Firewalls,...   Due - 30 Nov
☐  Student, Test test.student@example.c... IN PROGRESS		×	×	×	0%	--/100	--/100	--/100	--/100
☐  Student2, Test2 test.student2@example.... IN PROGRESS		×	×	×	0%	--/100	--/100	--/100	--/100
☐  Student3, Test3 +teststudent@example.... COMPLETED		×	×	✓	91.13%	29/100  31 July 2025	100/100 31 July 2025	100/100 31 July 2025	100/100 31 July 2025

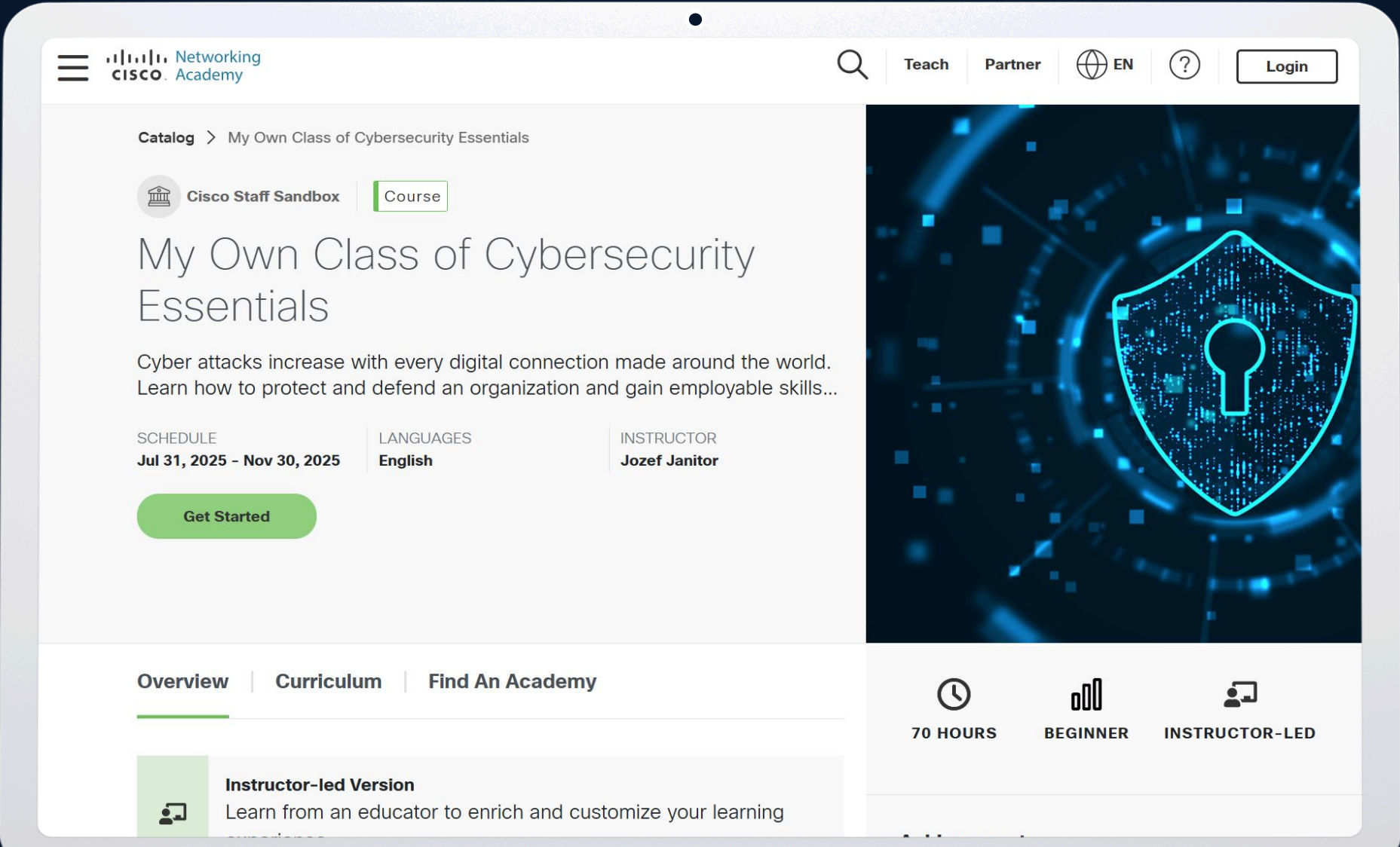
Student's experience

Demo

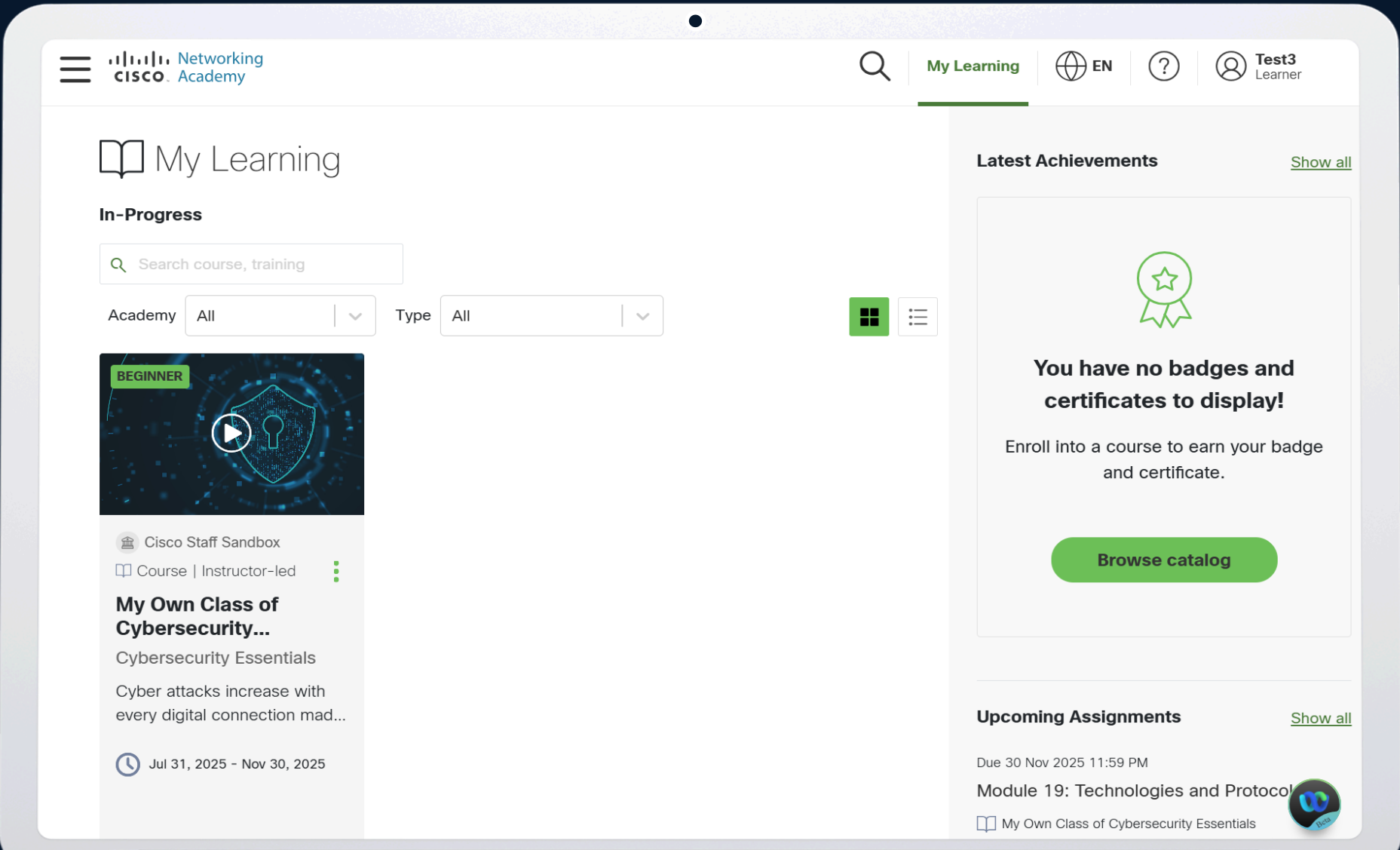
The student's experience ... starts with you invitation email



To get enrolled into your class



And start their instructor-led learning journey



Guided with your Assignment Flow

The screenshot displays the Cisco Academy interface for a course titled "My Own Class of Cybersecurity Essentials". The interface includes a top navigation bar with the Cisco Academy logo, the course title, and several utility icons (clipboard, book, bar chart, megaphone, and a close button). Below the navigation bar, a folder icon and the text "Cybersecurity Essentials" are shown, followed by a green upward arrow icon. The main content area lists six course items, each with a document icon, a title, a due date, and a green right arrow icon. The items are: "Course Introduction", "Module 1: Cybersecurity Threats, Vulnerabilities, and Attacks", "Module 2: Securing Networks", "Module 3: Attacking the Foundation", "Module 4: Attacking What We Do", and "Module 5: Wireless Network Communication". All items have a due date of "Due 30 Nov 2025 11:59 PM".

Item	Due Date
Course Introduction	Due 30 Nov 2025 11:59 PM
Module 1: Cybersecurity Threats, Vulnerabilities, and Attacks	Due 30 Nov 2025 11:59 PM
Module 2: Securing Networks	Due 30 Nov 2025 11:59 PM
Module 3: Attacking the Foundation	Due 30 Nov 2025 11:59 PM
Module 4: Attacking What We Do	Due 30 Nov 2025 11:59 PM
Module 5: Wireless Network Communication	Due 30 Nov 2025 11:59 PM

Exploring the Reading assignments

 My Own Class of Cybersecurity Essentials



 Module 1: Cybersecurity Threats, Vu...  Assignment Content

DUE DATE

30 November 2025,
11:59 PM

AVAILABLE FROM

31 July 2025, 04:49 PM

INSTRUCTIONS

Module 1: Cybersecurity Threats, Vulnerabilities, and Attacks

Module 1: Cybersecurity Threats, Vulnerabilities, and Attacks

0%

1.0. Introduction

0 / 2

1.0.1 Why Should I Take this Module?

1.0.2 What Will I Learn in this Module?

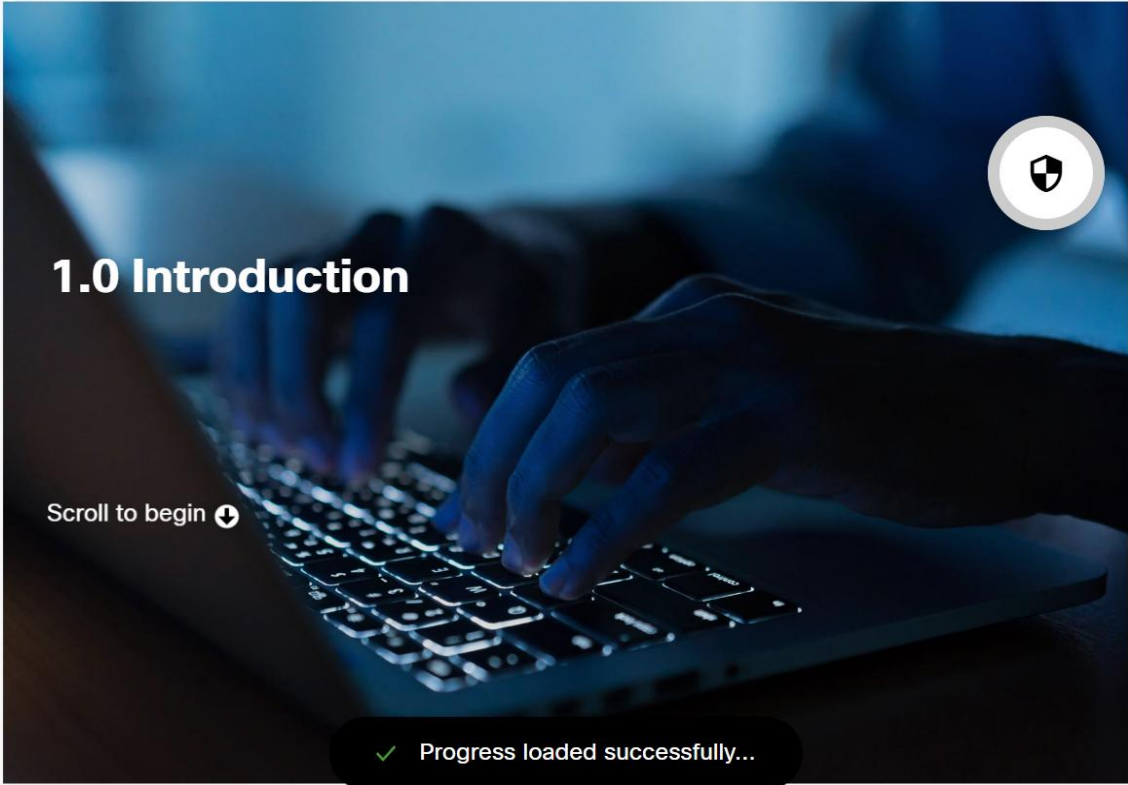
1.1. Common Threats

0 / 20

1.2. Deception

0 / 13

1.0. Introduction



1.0 Introduction

Scroll to begin

✓ Progress loaded successfully...

Quizzes with feedback throughout the content to reinforce learning

The screenshot displays the Cisco Academy interface for a course titled "My Own Class of Cybersecurity Essentials". The left sidebar shows the course outline with the following sections:

- 19.0. Introduction (0 / 2)
- 19.1. Monitoring Common Protocols (0 / 7)
- 19.2. Security Technologies (3 / 6)**
 - 19.2.1 ACLs (Completed)
 - 19.2.2 NAT and PAT (Progress)
 - 19.2.3 Encryption, Encapsulation, and Tunneling (Progress)
 - 19.2.4 Peer-to-Peer Networking and Tor (Completed)
 - 19.2.5 Load Balancing (Completed)
 - 19.2.6 Check Your Understanding - Identify the Impact of the Technology on Security and Monitoring** (Current)
- 19.3. Technologies and Protocols Summary (0 / 2)
- Module 20: Network Security Data (Completed)
- Module 21: Evaluating Alerts (Completed)
- Checkpoint Exam: Evaluating Security Alerts (Completed)
- Module 22: Governance and Compliance (Completed)

The main content area displays the quiz question:

19.2.6 Check Your Understanding - Identify the Impact of the Technology on Security and Monitoring

Answer the questions to identify the impact of the technology on network security and security monitoring.

Question 1

Which of the following spreads malware-infected files and creates vulnerabilities on a network?

- ☐ ACL
- ☐ encryption
- ☐ Tunneling
- ☐ NAT/PAT
- ☒ P2P

Buttons at the bottom: Submit, Show feedback.

Completing assessments

Networking Academy

My Own Class of Cybersecurity Essentials

Clipboard

Book

Bar Chart

Speaker

Close

Checkpoint Exam: Network Security

Assignment Content

DUE DATE

30 November 2025, 11:59 PM

POINTS

100

ATTEMPTS

0 / Unlimited

AVAILABLE FROM

31 July 2025, 05:52 PM

CATEGORY

Assessment

INSTRUCTIONS

Checkpoint Exam: Network Security

Checkpoint Exam

Checkpoint Exam

Q9

Q10

Q11

Q12

Q13

Q14

Q15

Q16

Q17

Q18

Q19

Q20

Q21

Q22

Q23

Q24

Result Page

29%

You have scored 29%.

You have not passed the exam.

Select Reset to retake the exam. Remember that you can return to the module for reference or to retake the exam at any time.

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A group of four diverse students (three young women and one young man) are smiling and working together in a network laboratory. They are gathered around a desk, looking at a small black network device with an antenna. One student is holding a yellow Ethernet cable. In the background, there are server racks with various colored cables (blue, yellow, red) plugged in. A blue square sign with a white Wi-Fi symbol is on the wall, and a computer monitor displays a large white padlock icon on a blue background.

But most importantly, PRACTICING with LABs!!!

But most importantly, **PRACTICING with LABs!!!**

The screenshot displays the Cisco Networking Academy interface. The top navigation bar includes the Cisco logo, the text 'Networking Academy', and the course title 'My Own Class of Cybersecurity Essentials'. On the right side of the navigation bar are icons for a checklist, a book, a bar chart, a megaphone, and a close button (X).

The main content area is divided into two panels. The left panel shows a course progress overview with a green progress bar at 26%. The course is organized into sections: 8.0. Introduction (0/2), 8.1. Linux Basics (0/4), 8.2. Working in the Linux Shell (0/7), 8.3. Linux Servers and Clients (3/6), 8.4. Basic Server Administration (4/4), 8.5. The Linux File System (0/4), and 8.6. Working with the Linux GUI (0/2). The 8.3. Linux Servers and Clients section is expanded, showing a list of topics: 8.3.1 An Introduction to Client-Server Communications (checked), 8.3.2 Servers, Services, and Their Ports (checked), 8.3.3 Clients (checked), 8.3.4 Lab Video - Use a Port Scanner to Detect Open Ports (checked), 8.3.5 Lab - Use a Port Scanner to Detect Open Ports (checked), and 8.3.6 Lab - Linux Servers (checked).

The right panel displays the details for the selected lab, '8.3.5 Lab - Use a Port Scanner to Detect Open Ports'. The lab title is prominently displayed at the top, followed by a 'Required Resources' section listing a PC with the CSE-LABVM installed in VirtualBox. The 'Instructions' section outlines the steps: Step 1: Open a terminal window in the CSE-LABVM, and Step 2: Run Nmap. The instructions for Step 1 include launching the CSE-LABVM and double-clicking the Terminal icon. The instructions for Step 2 include entering the command 'nmap localhost' at the command prompt. The output of the command is shown, indicating that the host is up and the scan was successful.

8.3.5 Lab - Use a Port Scanner to Detect Open Ports

Required Resources

- PC with the **CSE-LABVM** installed in VirtualBox.

Instructions

Step 1: Open a terminal window in the CSE-LABVM.

a. Launch the **CSE-LABVM**.

b. Double-click the **Terminal** icon to open a terminal.

Step 2: Run Nmap.

At the command prompt, enter the following command to run a basic scan against this system:

```
cisco@labvm:~$ nmap localhost
```

Starting Nmap 7.80 (<https://nmap.org>) at 2021-03-19 14:14 UTC

Nmap scan report for localhost (127.0.0.1)

Host is up (0.000035s latency).

Using simulation tools like Cisco Packet Tracer

The screenshot displays the Cisco Packet Tracer application window. The main workspace shows a network diagram with various devices including routers (HQ-Edge, HQ-INT), switches (HQ-VLC-1, HQ-LWAP-2), and laptops (Floor 2, HQ-Laptop-2). The diagram is labeled with 'POP/MDF' and 'HQ'. A sidebar on the left contains instructions and objectives for the activity.

Objectives

- Part 1: Configure and Use AAA Authentication Credentials
- Part 2: Configure and Use Email Services
- Part 3: Configure and Use FTP Services

Background / Scenario

Authentication and authorization are distinct security processes in the world of identity and access management (IAM). Authentication uses passwords and other identification methods to confirm that users are who they say they are. By contrast, authorization assigns user permissions to the resources that the user is allowed access. In this Packet Tracer (PT) activity, you will configure authentication and authorization for network services including wireless network access, email, and FTP services.

Instructions

Part 1: Configure and Use AAA Authentication Credentials

Step 1: Configure user accounts on the AAA server.

- Navigate to **Headquarters** and then click the **Wiring Closet**, which is the tall, black server chassis in the bottom left corner.
- On the right side **Rack**, click **AAA-RADIUS** server > **Services** tab, and then **AAA** under **SERVICES**.
- Turn on the AAA service.
- Under **User Setup**, add the following **usernames / passwords**.
 - user1 / PASSuser1!
 - user2 / PASSuser2!

Step 2: Configure wireless authentication on HQ-Laptop-1.

- Navigate back to **HQ** and click **HQ-Laptop-1**. It is located two rooms to the right from the **Wiring Closet**.
- Click **Config** tab, and then under **INTERFACE**, click **Wireless**.
- In the **SSID** box, type **HQ-INT**.
- In the **Authentication** area, click **WPA2**.

Completion: 0%

☒ Dock

Time: 00:02:04

CLI Window (FL-1):

```
IOS Command Line Interface

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to up

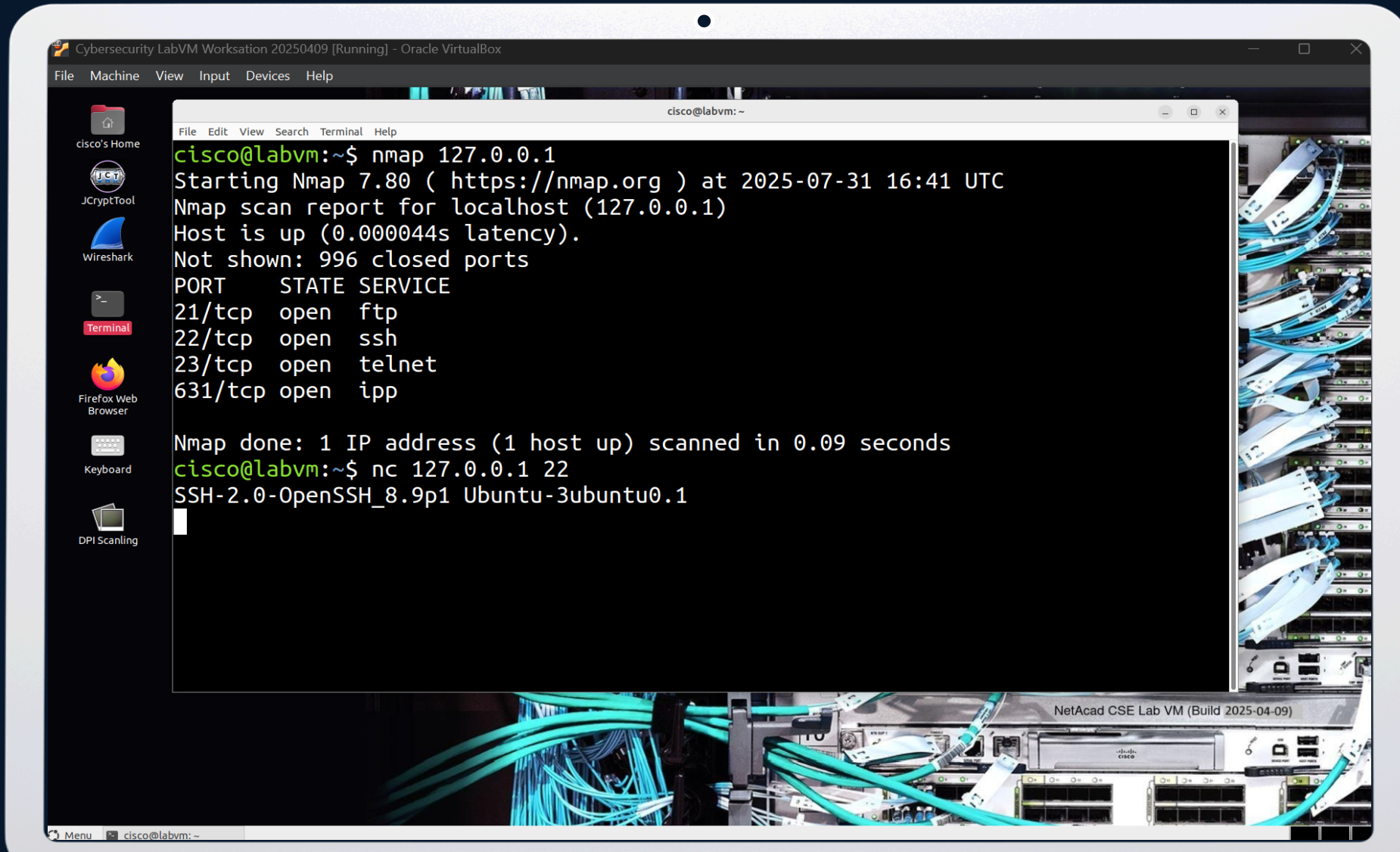
%LINK-5-CHANGED: Interface Port-channel3, changed state to up

%LINK-5-CHANGED: Interface Port-channel1, changed state to up

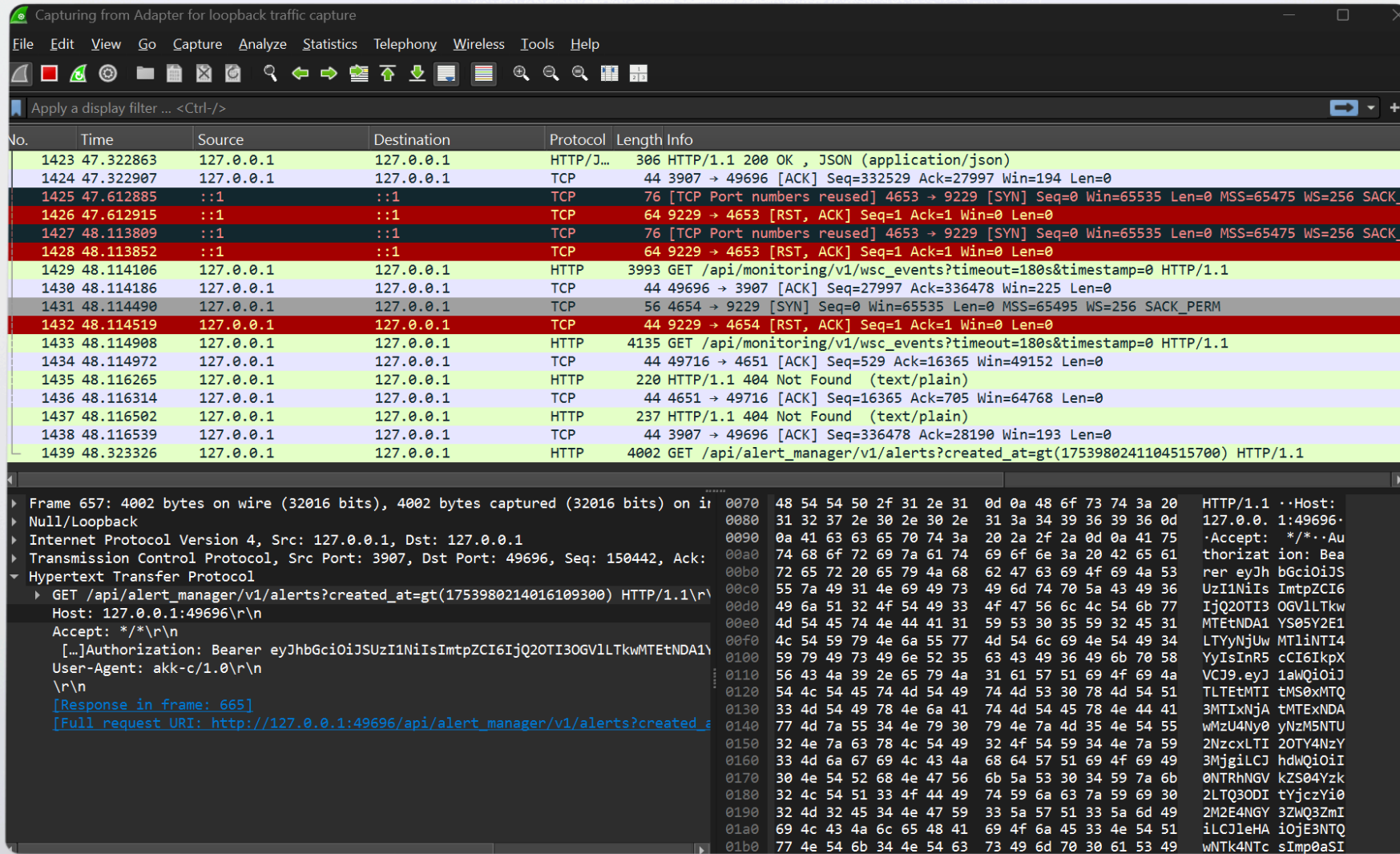
%LINK-5-CHANGED: Interface Port-channel1, changed state to up

FL-1>en
FL-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
FL-1(config)#int fa 0/1
FL-1(config-if)#switchport mode access
FL-1(config-if)#no shutdown
FL-1(config-if)#
```

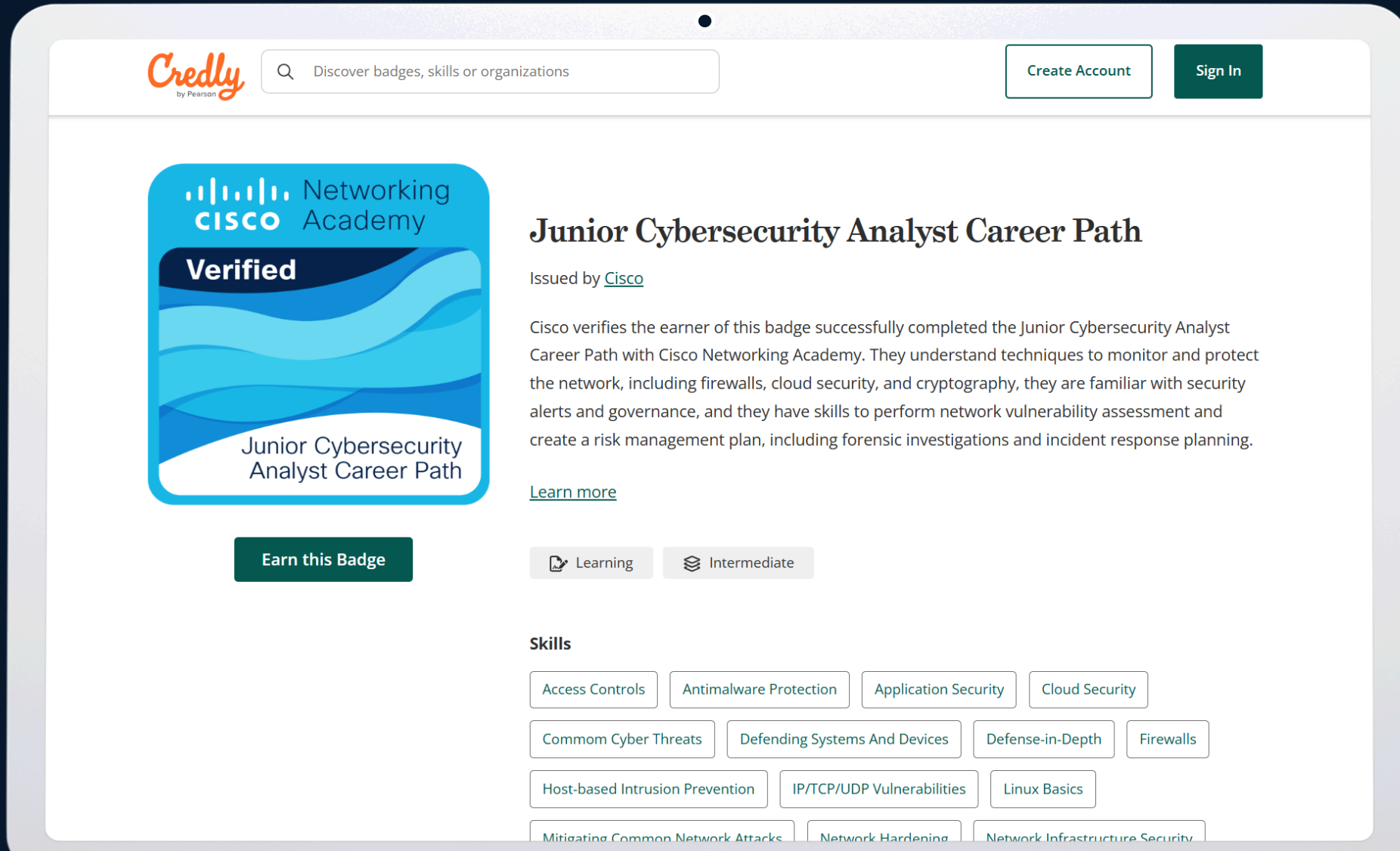
Or using Virtual Machines with real world tools



Or local software on their computers



When passing the class, students can get a badge ...



The screenshot displays the Credly website interface. At the top, the Credly logo (by Pearson) is on the left, a search bar with the text 'Discover badges, skills or organizations' is in the center, and 'Create Account' and 'Sign In' buttons are on the right. The main content area features a large blue badge on the left with the Cisco Networking Academy logo, the word 'Verified', and the text 'Junior Cybersecurity Analyst Career Path'. Below the badge is a green button labeled 'Earn this Badge'. To the right of the badge, the title 'Junior Cybersecurity Analyst Career Path' is displayed, followed by 'Issued by Cisco'. A paragraph describes the badge: 'Cisco verifies the earner of this badge successfully completed the Junior Cybersecurity Analyst Career Path with Cisco Networking Academy. They understand techniques to monitor and protect the network, including firewalls, cloud security, and cryptography, they are familiar with security alerts and governance, and they have skills to perform network vulnerability assessment and create a risk management plan, including forensic investigations and incident response planning.' Below this is a 'Learn more' link. Further down, there are two tabs: 'Learning' (active) and 'Intermediate'. A 'Skills' section follows, containing a grid of skill tags: Access Controls, Antimalware Protection, Application Security, Cloud Security, Common Cyber Threats, Defending Systems And Devices, Defense-in-Depth, Firewalls, Host-based Intrusion Prevention, IP/TCP/UDP Vulnerabilities, Linux Basics, Mitigating Common Network Attacks, Network Hardening, and Network Infrastructure Security.

Credly by Pearson

Discover badges, skills or organizations

Create Account Sign In

Networking Academy
Verified
Junior Cybersecurity Analyst Career Path

Earn this Badge

Junior Cybersecurity Analyst Career Path

Issued by [Cisco](#)

Cisco verifies the earner of this badge successfully completed the Junior Cybersecurity Analyst Career Path with Cisco Networking Academy. They understand techniques to monitor and protect the network, including firewalls, cloud security, and cryptography, they are familiar with security alerts and governance, and they have skills to perform network vulnerability assessment and create a risk management plan, including forensic investigations and incident response planning.

[Learn more](#)

Learning Intermediate

Skills

Access Controls Antimalware Protection Application Security Cloud Security

Common Cyber Threats Defending Systems And Devices Defense-in-Depth Firewalls

Host-based Intrusion Prevention IP/TCP/UDP Vulnerabilities Linux Basics

Mitigating Common Network Attacks Network Hardening Network Infrastructure Security

... and a Certificate of Course Completion

Networking
cisco Academy

My Learning

EN

Test3
Learner

Profile > Badges & Certificates >

Networking
cisco Academy

This certificate is awarded to
Test3 Student3
for successfully completing
Cybersecurity Essentials
offered by Cisco Staff Sandbox
through the Cisco Networking Academy program.

Jozef Janitor
Instructor
Cisco Staff Sandbox

31 Jul 2025
Completion Date

Completed by
Test3 Student3

Issue Date
Jul 31, 2025

Total Hours
70

ABOUT COURSE
My Own Class of Cybersecurity Essentials
Cyber attacks increase with every digital connection made around the world. Learn how to protect and defend an organization and gain employable skills to start your cyber career.

INSTRUCTOR
Jozef Janitor

SKILLS
Cybersecurity Essentials

Download

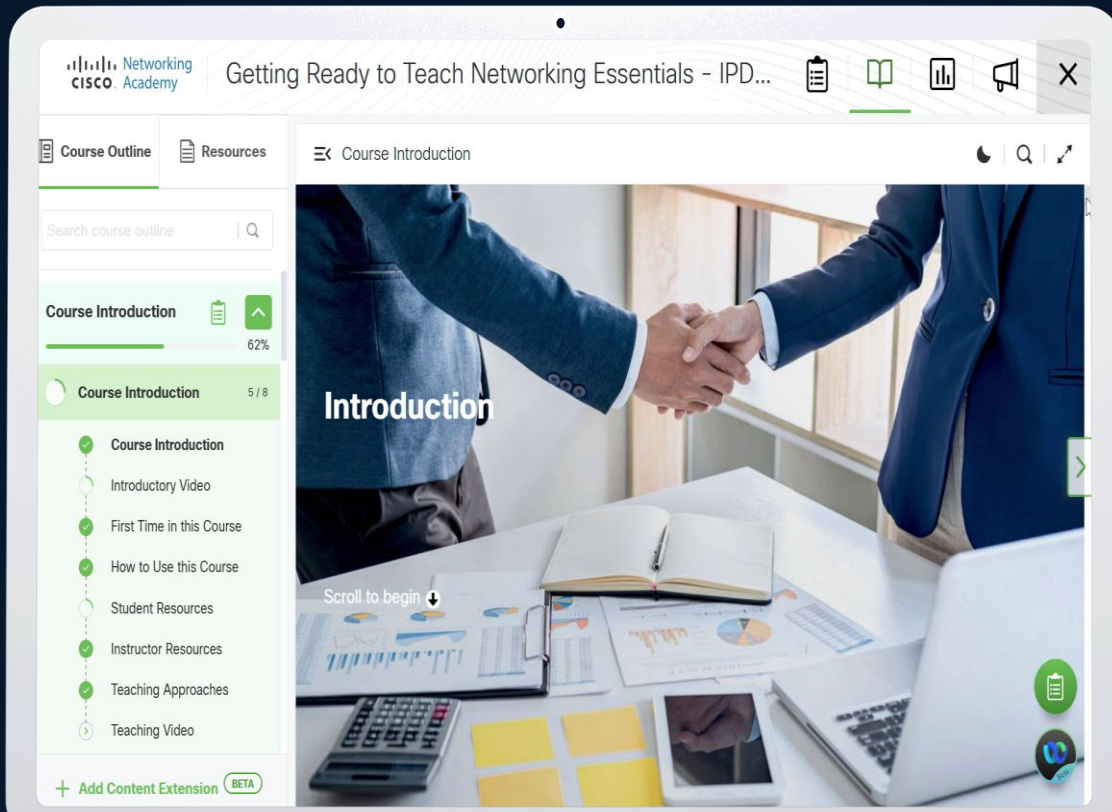
**Enhance your onboarding
and get ready**

Leverage our network of Networking Academy Partners

- Engage with **Academy Support Centers**
 - Help with your onboarding
 - Day to day operations and support
 - Explore together local/global options for grants
 - And more ...
- Get training from **Instructor Training Centers**
 - Benefit from having a training session with a Qualified Instructor Trainer
 - Learn best practices, understand where students might struggle, build confidence in teaching
 - And more ...
- Be a part of the Networking Academy community!

Getting Ready to Teach Cybersecurity/Networking Essentials

Learn best practices on how to teach the courses, create engaging group activities with students, and more!



- Ask your ITC to open classes for you
- Or use the following self-paced options:
 - Getting Ready to Teach Cybersecurity Essentials: <http://cs.co/TeachCybersecurityEssentials>
 - Getting Ready to Teach Networking Essentials: <http://cs.co/TeachNetworkingEssentials>

Past IPD Week recordings most relevant for CCST

- How to use the Platform for custom Assessments:
<https://www.netacad.com/ipd/sessions/ipd-may-2025-custom-assessments-and-assignments>
- Elevate your IT programs with the power of the CCST curriculum:
<https://www.netacad.com/ipd/sessions/ipd-february-2025-elevate-your-it-programs-with-the-power-of-the-ccst-curriculum>
- The future of Foundational IT skills with CCST IT Support Curriculum:
<https://www.netacad.com/ipd/sessions/ipd-august-2025-the-future-of-foundational-it-skills-with-ccst-it-support-curriculum>
- Getting Ready to Teach Cybersecurity Essentials and Networking Essentials:
<https://www.netacad.com/ipd/sessions/ipd-may-2025-getting-ready-to-teach-cybersecurity-essentials-and-networking-essentials>

Cisco Certified Network Associate (CCNA) Certifications

Jose Avalos

Product Marketing Manager

CCNA certifications and related job roles

CCNA



Network Administrator



Network Engineer



Help Desk Administrator



CCNA Cybersecurity*



Security Operations Center (SOC) Analyst Level 1



Network Security Engineer



IT Security Operations Specialist



* formerly **CyberOps Associate**

CCNA Automation**



Network Automation Engineer



Software Developer



System Integration Programmer



** formerly **DevNet Associate**

CCNA certifications and knowledge domains

CCNA

Validates candidate's skills and knowledge of:

- Network Fundamentals
- Network Access
- IP Connectivity
- IP Services
- Security Fundamentals
- Automation and Programmability



CCNA Cybersecurity

Validates candidate's skills and knowledge of:

- Security Concepts
- Security Monitoring
- Host-Based Analysis
- Network Intrusion Analysis
- Security Policies and Procedures



CCNA Automation

Validates candidate's skills and knowledge of:

- Software Development and Design
- Understanding and Using APIs
- Cisco Platforms and Development
- Application Deployment and Security
- Infrastructure and Automation
- Network Fundamentals



CCNA Curriculum

Foundation IT skills as prerequisites

CCNA: Introduction to Networking

Instructor-led only | 70 hours

CCNA: Switching, Routing, and Wireless Essentials

Instructor-led only | 70 hours

CCNA: Enterprise Networking, Security, and Automation

Instructor-led only | 70 hours



Continue to

Apply for associate-level jobs

- Network Administrator
- Network Engineer
- Help Desk Administrator

Progress to additional learning

CCNP Enterprise

More practice with hands-on labs!

CCNA Equipment (per pod):

- 2 x C8200L-1N-4T
- 2 x C9200L-24T-4G-E
- 1 x Wireless Router
- CAB-CONSOLE-USB-C=
- CAB-CONSOLE-RJ45=
- ...



Tactile hands-on activities using the Local Equipment

Past IPD Week recordings most relevant for CCNA

- CCNA Prep Power-up: Must-Have Resources for Certification Success
<https://www.netacad.com/ipd/sessions/ipd-february-2025-ccna-prep-power-up-must-have-resources-for-certification-success>
- Introduction to Ansible for Network Engineers
<https://www.netacad.com/ipd/sessions/ipd-february-2025-introduction-to-ansible-for-network-engineers>
- Terraform and You: Have No Fear, HCL is Here
<https://www.netacad.com/ipd/sessions/ipd-february-2025-terraform-and-you-have-no-fear-hcl-is-here>
- Using Cisco Modeling Labs Free for Hands-On CCNA Practice
<https://www.netacad.com/ipd/sessions/ipd-february-2025-using-cisco-modeling-labs-free-for-hands-on-ccna-practice>
- Packet Tracer REST API Hands-on for CCNA ENSA
<https://www.netacad.com/ipd/sessions/ipd-december-2024-packet-tracer-rest-api-hands-on-for-ccna-ensa>
- Smarter Networks, Smarter Engineers: Learn AI Skills That Solve Real Problems
<https://www.netacad.com/ipd/sessions/ipd-may-2025-smarter-networks-smarter-engineers-learn-ai-skills-that-solve-real-problems>
- AI Education Series: Artificial Intelligence for CCNA
<https://www.netacad.com/ipd/sessions/ipd-ai-education-series-artificial-intelligence-for-ccna>

CCNA Cybersecurity Curriculum



Past IPD Week recordings most relevant for CCNA Cyber

- Auth, Tokens, and Trust: A Modern Look at API Security
<https://www.netacad.com/ipd/sessions/ipd-may-2025-auth-tokens-and-trust-a-modern-look-at-api-security>
- Firewall Deployments: Cloud, On-Prem, and Beyond!
<https://www.netacad.com/ipd/sessions/ipd-february-2025-firewall-deployments-cloud-on-prem-and-beyond>
- Using CSF 2.0 Framework To Assess Current State of Cybersecurity Posture
<https://www.netacad.com/ipd/sessions/ipd-september-2024-using-csf-20-framework-to-assess-current-state-of-cybersecurity-posture>
- AI and Education Series: Navigating the New Frontiers of Security
<https://www.netacad.com/resources/teaching-learning/ipd-ai-and-education-series-navigating-the-new-frontiers-of-security>
- Exploring the Current Threat Landscape
<https://www.netacad.com/resources/teaching-learning/ipd-exploring-current-threat-landscape-video>
- Making Cyber Attack Visible Through SIEM
<https://www.netacad.com/resources/teaching-learning/ipd-making-cyber-attack-visible-through-siem>
- Introduction to Phishing and Malware Analysis
<https://www.netacad.com/resources/teaching-learning/ipd-introduction-to-phishing-and-malware-analysis>

CCNA Automation Curriculum

Foundation
networking and
programming skills as
prerequisites

DevNet Associate*

Instructor-led only | 70 hours



Continue to

Apply for associate-level jobs

- Network automation engineer
- Software developer
- System integration programmer

Progress to additional learning

CCNP Automation

Past IPD Week recordings most relevant for CCNA Auto

- Automating Cisco Meraki Like a Superhero
<https://www.netacad.com/resources/teaching-learning/ipd-automating-cisco-meraki-like-a-superhero>
- DNA Center – Automation
<https://www.netacad.com/resources/teaching-learning/ipd-dna-center-part-2-automation>
- Network Programmability using Netmiko for those new to Python
<https://www.netacad.com/resources/teaching-learning/ipd-network-programmability-using-netmiko-for-those-new-to-python>
- Python Lab Activities for DevNet Associate – Filling the Gap
<https://www.netacad.com/resources/teaching-learning/ipd-python-lab-activities-devnet-video>
- Software Versioning with Git
<https://www.netacad.com/resources/teaching-learning/ipd-software-versioning-with-git-video>
- Webex Developer Platform Overview
<https://www.netacad.com/resources/teaching-learning/ipd-webex-developer-platform-overview>
- How Playing with Toy Bricks Made Me Better at DevNet
<https://www.netacad.com/resources/teaching-learning/ipd-how-playing-with-toy-bricks-made-me-better-at-devnet-video>
- Meraki Dashboard and API
<https://www.netacad.com/resources/teaching-learning/ipd-meraki-dashboard-and-api>

Beyond Technical Skills: Professional & AI Skills & More

Shantae Pelt

Product Marketing Manager

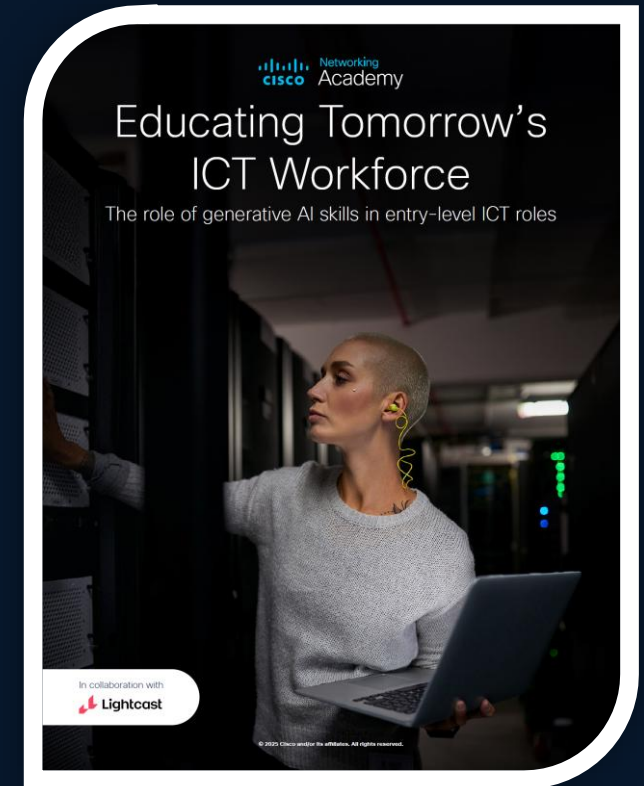
Beyond Technical Skills: Professional & AI Skills & More

- **Professional skills:**

- Communication, Collaboration, Critical Thinking, Creativity
- Teamwork
- Problem-Solving

- **AI skills:**

- Introduction to Modern AI
- AI at Work series (coming soon)
- Code with AI (coming soon)
- AI Security Nuggets
- Programming, Automation, Cybersecurity, Sustainability, etc.
- Explore for more the Catalog at netacad.com



<https://go.netacad.com/ai-powered-ict-workforce.html>

Instructor Support & Continuous Learning

- Community forums and peer network
 - Cisco Learning Network
 - <https://learningnetwork.cisco.com/s/>
 - Cisco Networking Academy Instructors @ Facebook
 - <https://www.facebook.com/groups/netacadinstructors>
 - Local and Regional conferences
- Instructor development webinars and IPD sessions
 - <https://www.netacad.com/instructor-professional-development>
- Access to up-to-date teaching materials, certification updates and news
 - Stay up to date and sign up for NetAcad email updates in your netacad.com profile

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Creating life-long learners, wherever they are in their career journeys



Cisco Networking Academy

- Skills-to-jobs program designed for entry and early-in career individuals, with career resources to help learners chart their paths in IT.
- Free online self-paced courses for flexible learning anytime, anywhere.
- Instructor-led options through partnerships with 12,100 educational institutions around the world. Curriculum licensed at no cost to educators.
- Introductory courses are ideal for exploring topics in technology.
- Skills-driven curriculum is aligned to industry-recognized certifications, making it easy for learners to begin and advance in their careers.



Cisco U.

- Offers a broad spectrum of Cisco and Cisco-adjacent product, technology, and certification training at the associate level and above.
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- Professional and Expert Level Careers
- Learning continuum
- Explore Cisco U. free resources
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 - Cert Rev-Ups
- Network of Cisco Learning Partners
- Professional communities at CLN



Cisco certs for careers



Achieve your potential with Cisco Certifications

You have a goal, and Cisco Certifications get you there. Certifications get your foot in the door, put you on the road to success, and keep you learning for life. So, embrace today's dynamic technologies, find the IT job you want, and the rewarding career you dream about. It all begins with Cisco Certifications and tech learning shaped to you.



Entry-level

Validate your skills and readiness for the field.

Certification Requirements:

[CCST](#)

Cisco Certified Support Technician (CCST) IT Support Exam 100-140 CCST

Cisco Certified Support Technician (CCST) Networking Exam 100-150 CCST

Cisco Certified Support Technician (CCST) Cybersecurity Exam 100-160 CCST

[Cisco Certificate in Ethical Hacking](#)
Master essential offensive cybersecurity skills

Certification Requirements:

[CCT Field Technician](#)
800-150 FLDTEC

Associate

Master the essentials needed to launch a rewarding career.

Certification Requirements:

[CCNA](#)

200-301 CCNA

Certification Requirements:

[Cisco Certified DevNet Associate \(CCNA Automation\)²](#)
200-901 DEVASC

Certification Requirements:
[Cybersecurity Associate \(CCNA Cybersecurity\)¹](#)
200-201 CBROPS

Professional

Customize your professional certification by choosing a technology track and concentration exam. This will help you develop specialized skills and boost your expertise.

Certification Requirements:

[CCNP Enterprise](#)
Core exam:
350-401 ENCOR

(Choose one)

300-410 ENARSI
300-415 ENSDWI
300-420 ENSLD
300-425 ENWLSI
300-430 ENWLSI
300-435 ENAUTO³
300-440 ENCC
300-445 ENNA

[CCNP Service Provider](#)
Core exam:
350-501 SPCOR

(Choose one)

300-510 SPRI
300-515 SPVI
300-535 SPAUTO⁴
300-540 SPCNI

[CCNP Data Center](#)
Core exam:
350-601 DCCOR

(Choose one)

300-610 DCID
300-615 DCIT
300-620 DCACI
300-635 DCAUTO³

[CCNP Security](#)
Core exam:
350-701 SCOR

(Choose one)

300-710 SNCF
300-715 SISE
300-720 SESA
300-725 SWSA
300-730 SVPN
300-735 SAUTO⁴
300-740 SCAZT
300-745 SDSI

[CCNP Collaboration](#)
Core exam:
350-801 CLCOR

(Choose one)

300-810 CLICA⁴
300-815 CLACCM
300-820 CLCEI
300-830 CLCCE³
300-835 CLAUTO⁴

Professional-level certifications each require 2 exams:

$$1 \text{ Core Exam} + 1 \text{ Concentration Exam} = \text{CCNP}$$

Core exams in each CCNP technology track also serve as qualifying exams for CCIE lab exams.

Certification Requirements:

[Cisco Certified DevNet Professional \(CCNP Automation\)²](#)

Core exam:
350-901 DEVCOR³

(Choose one)

300-435 ENAUTO³
300-635 DCAUTO³

300-535 SPAUTO⁴
300-735 SAUTO⁴
300-835 CLAUTO⁴
300-910 DEVOPS⁴

Certification Requirements:

[Cybersecurity Professional \(CCNP Cybersecurity\)¹](#)

Core exam:
350-201 CBRCOR

(Choose one)

300-215 CBRFIR
300-220 CBRTHD

Expert

CCIE certification is a highly-regarded achievement in the tech industry worldwide. It requires in-depth networking knowledge, practical experience, and passing a challenging exam.

Certification Requirements:

[CCIE Enterprise Infrastructure](#)

350-401 ENCOR + CCIE Enterprise Infrastructure lab

[CCIE Service Provider](#)

350-501 SPCOR + CCIE Service Provider lab

[CCIE Security](#)

350-701 SCOR + CCIE Security lab

[CCDE](#)

400-007 CCDE Written Exam + CCDE Practical Area of Expertise

- AI Infrastructure Technology
- Large Scale Networks Technology
- On-Prem and Cloud Services Technology
- Workforce of Mobility Technology

Certification Requirements:

[Cisco Certified DevNet Expert \(CCIE Automation\)²](#)

350-901 DEVCOR³ + DevNet Expert lab

¹Effective February 2, 2024 - Rebranded to CCNA Cybersecurity and CCNP Cybersecurity.
²Effective February 2, 2024 - Rebranded to CCNA Automation, CCNP Automation, and CCDE Automation.
³First date to test February 5, 2024.
⁴Last date to test February 2, 2026.

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“People always want to know who they’re talking to. They want to know if you’re qualified. Certifications give you instant credibility.”

Kevin Brown
Cybersecurity Analyst, CCNA & Cybersecurity Associate Certifications



Next Steps & Call to Action

- Teach with us
- Explore NetAcad courses and resources
- Engage with the instructor community
- Leverage Cisco certification-aligned pathways in your teaching
- Prepare your learners for the jobs of the future

Thank you.



IT Customer Support Basics

Course Overview

This course prepares learners for entry-level IT support roles. It covers important help desk and customer service skills, including how to effectively communicate with customers, troubleshoot technical issues, and utilize remote tools. The course combines lectures with practical exercises, so that learners gain both theoretical knowledge and hands-on experience.

Benefits

- ✓ **Career-Ready Skills:** Learners will develop IT support skills, preparing them for entry-level positions.
- ✓ **Hands-On Learning:** Learners go through practical exercises and simulations that reinforce theoretical knowledge.
- ✓ **Comprehensive Curriculum:** This is the first course in a learning path that is aligned to the CCST IT Support certification.

Course Details

Target Audience: Secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 4 Hours

Prerequisites: None

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 2 modules
- Interactive Check Your Understanding activities
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: This course is part of the IT Support Specialist Career Path (coming soon) which aligns to the CCST IT Support Certification.

Recommended Next Course: Operating Systems Support (coming soon)



Requirements

- **ASC Alignment:** Recommended
- **Instructor Training:** Optional
- **Physical Equipment:** Not required

Operating System Basics

Course Overview

This course teaches the fundamentals of operating systems by covering the basic concepts and skills needed to explain the purpose and characteristics of operating systems, implement basic operating system security, and explain how to configure mobile device network connectivity.

Benefits

This course provides the learner with an engaging, foundational view of operating systems and mobile device connectivity, including Windows, Linux, Android, and iOS.

- ✓ Use Windows administrative tools.
- ✓ Implement basic Linux security.
- ✓ Explain how to configure network connectivity and email on mobile devices.
- ✓ Explain the purpose and characteristics of mobile operating systems.

Course Details

Target Audience: Secondary, vocational, career technical school and immediate post-secondary students, general audience

Estimated Time to Completion: 12 hours

Prerequisites: None
Recommended Preparation: None

Course Delivery: Self-Paced

Learning Component Highlights:

- 8 modules and 18 practice labs
- Checkpoints and quizzes
- 1 final test

Course Recognitions: Digital Badge

Certification Alignment: None

Recommended Next Course: Networking Basics



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Security and Connectivity Support

Course Overview

This course prepares learners for modern front-line IT support roles. They will diagnose and resolve common issues—from peripheral and shared resource problems to wired and wireless network connectivity—using command-line tools. They will also build a foundation in cybersecurity awareness, covering threat identification, social engineering tactics, and data protection policies. As the third course in the IT Support Specialist Career Path, it prepares students for key objectives of the CCST IT Support certification.

Benefits

- ✓ Job-Ready Technical Skills: Diagnose and resolve connectivity issues, such as troubleshooting network access.
- ✓ Foundation in Modern Cybersecurity: Recognize social engineering tactics and apply best practices to protect sensitive data.
- ✓ Prepare for an IT Career: Develop skills that align with the Cisco CCST-IT Support certification.

Course Details

Target Audience: Secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 10 hours

Prerequisites:
IT Customer Support Basics
Operating Systems Support

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 3 modules
- Interactive activities and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: This course is part of the IT Support Specialist Career Path, which aligns to the CCST IT Support Certification.

Recommended Next Course: Hardware and Upgrade Support



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Hardware and Upgrade Support

Course Overview

This course prepares learners to diagnose, repair, and upgrade computer hardware. Students will progress from fundamental safety procedures and component identification to advanced troubleshooting techniques and performing upgrades like installing RAM and storage devices. As the final course in the IT Support Specialist Career Path, it directly aligns with key objectives of the CCST IT Support certification.

Benefits

- ✓ **Gain Job-Ready Skills:** Students will learn hardware troubleshooting, repair, and how to perform PC upgrades.
- ✓ **Prepare for Your Career:** Students can prepare for the CCST IT Support certification and pursue an entry-level role in IT.
- ✓ **Build Technical Confidence:** Students will diagnose and solve common hardware problems on their own.

Course Details

Target Audience: Secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 6 hours

Prerequisites:
IT Customer Support Basics
Operating Systems Support
Security and Connectivity Support

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 2 modules
- Interactive activities and quizzes
- 1 final exam

Course Recognitions: Digital badge

Certification Alignment: This course is part of the IT Support Specialist Career Path, which aligns to the CCST IT Support Certification.

Recommended Next Course: Networking Basics or Introduction to Networks



Requirements

- **ASC Alignment:** Recommended
- **Instructor Training:** Optional
- **Physical Equipment:** Not required

Course Overview

This course covers the foundation of networking and network devices, media, and protocols. The learner will observe data flowing through a network and basic device configuration to connect to networks.

Benefits

Teaching your students basic networking concepts is essential for developing IT skills and prepares them for a wide variety of IT career paths.

- ✓ Configure a wireless router and wireless host to connect to the internet
- ✓ Teach how protocols, devices, and media enable communication on Ethernet networks
- ✓ Demonstrate how IP addresses enable network communication
- ✓ Create a simple LAN
- ✓ Use application layer services to accomplish real-world tasks.

Course Details

Target Audience: Secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 22 hours

Prerequisites: None

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 17 modules and 13 practice labs
- Interactive activities and quizzes
- 1 final test

Course Recognitions: Digital Badge

Certification Aligned: This course is part of the Junior Cybersecurity Analyst Career Path and Network Technician Career Path which align to the CCST Cybersecurity and CCST Networking Certifications.

Recommended Next Course:
Networking Devices and Initial Configuration



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Course Overview

This course teaches intermediate knowledge and skills for networking by covering basic concepts and skills needed to build a home office network and a small office network.

Benefits

By teaching the characteristics and benefits of Cloud and Virtualization technologies, your students develop skills to calculate an IP addressing scheme and configure Cisco devices to create a small network.

- ✓ Teach the characteristics of Virtualization and Cloud services.
- ✓ Explain how Ethernet operates in a switched network.
- ✓ Show how routers use network layer protocols and services.
- ✓ Demonstrate how the TCP protocol guarantees data delivery.
- ✓ Configure a simple computer network using Cisco devices.

Course Details

Target Audience: Secondary or vocational school and college/university students, general audience

Estimated Time to Completion: 22 hours

Prerequisites: Networking Basics or equivalent knowledge

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 12 modules and 17 practice labs
- Interactive activities and quizzes
- 1 final test

Course Recognitions: Digital Badge

Certification Aligned: This course is part of the Junior Cybersecurity Analyst Career Path and Network Technician Career Path which align to the CCST Cybersecurity and CCST Networking Certifications.

Recommended Next Course:
Network Addressing and Basic Troubleshooting



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Course Overview

This course examines the Physical layer in depth, topologies at the Data Link layer, and basic routing at the Network layer. It dives deep into static and dynamic IPv4 and IPv6 addressing and address resolution.

Benefits

Teach your students the components and functionality of Cisco switches and routers, troubleshooting methodologies for some of the most common networking issues, and an overview of providing customer support preparing them for a wide variety of IT careers paths.

- ✓ Explain the features and functions of the physical, data link, and network layers.
- ✓ Develop a networking scheme for a small network based on stated requirements.
- ✓ Explain the operation of Cisco switches and routers.
- ✓ Teach basic troubleshooting for network connectivity issues.

Course Details

Target Audience: Secondary school and college/university students, general audience

Estimated Time to Completion: 14 hours

Prerequisites: Networking Devices and Initial Configuration or equivalent knowledge

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 8 modules and 8 practice labs
- Interactive activities and quizzes
- 1 final test

Course Recognitions: Digital Badge

Certification Aligned: This course is part of the Network Technician Career Path which aligns to the CCST Networking Certification.

Recommended Next Course:
Network Support and Security



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Network Support and Security

Course Overview

This course covers general IT and Network Support, delves into Cybersecurity Threats, Vulnerabilities, and Attacks. The learner will observe essential configuration steps to ensure secure user access on a network.

Benefits

This course builds learners' networking knowledge and can lead to exciting career opportunities in technology.

- ✓ Teach effective troubleshooting methodologies and help desk best practices.
- ✓ Explain common threats, vulnerabilities, and attacks on end points.
- ✓ Show how to configure secure user access on a network.

Course Details

Target Audience: High school, secondary and 2-year college vocational students, IT and non-IT fields university students, career changers

Estimated Time to Completion: 12 hours

Prerequisites: Network Addressing and Basic Troubleshooting course or equivalent knowledge

Course Delivery: Instructor-led and Self-paced

Learning Component Highlights:

- 3 modules and 10 practice labs
- Interactive activities and quizzes
- 1 final test

Course Recognitions: Digital Badge

Certification Aligned: This course is part of the Network Technician Career Path which aligns to the Cisco Certified Support Technician (CCST) Networking certification.

Recommended Next Course:
CCNA: Introduction to Networks



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required

Introduction to Cybersecurity

Course Overview

This course explores cyber trends, threats, and staying safe in cyberspace, and protecting personal and company data.

Benefits

Today's interconnected world makes everyone more susceptible to cyber-attacks. Teach how to protect personal data and privacy online, in social media, and why more and more IT jobs require cybersecurity awareness and understanding.

- ✓ Builds cybersecurity understanding for a secure and safe digital life
- ✓ Explores many career possibilities cybersecurity skills offers

Course Details

Target Audience: Secondary and 2-Year college students, general audience

Estimated Time to Completion: 6 hours

Prerequisites: None

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- 5 modules and 7 practice labs
- Interactive activities & quizzes
- 1 final exam

Course Recognitions: Digital badge

Recommended Next Course: Networking Essentials or Cybersecurity Essentials



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Endpoint Security

Course Overview

This course covers how to assess the network, operating systems, and endpoints for vulnerabilities, and how to secure the network. It also covers skills to maintain the integrity, confidentiality, and availability in the network and data.

Benefits

The demand for security professionals continues to grow. Teach the foundational knowledge used in the workplace as a Cybersecurity Technician.

- ✓ Develop a cybersecurity foundation
- ✓ Offer the next step in exploring the many career possibilities in cybersecurity
- ✓ Build skills securing a network all the way to the edge, including hardware, software, and media

Course Details

Target Audience: Secondary and 2-year college vocational students; Reskilling to find a job in cyber

Estimated Time to Completion: 27 hours

Recommended Preparation: Introduction to Cybersecurity

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 10 modules
- ✓ 31 Labs and Cisco Packet Tracer activities
- ✓ 40+ interactive activities & quizzes
- ✓ 1 final exam

Course Recognitions: Digital badge

Certification Alignment: CCST Cybersecurity

Recommended Next Course: Network Defense



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Course Overview

This course covers different methods to monitor the network and how to evaluate security alerts. It delves into tools and techniques used to protect the network, including access control, firewalls, cloud security, and cryptography.

Benefits

The demand for security professionals continues to grow. Gain the intermediate knowledge used in the workplace as a Cybersecurity Technician.

- ✓ Builds a cybersecurity foundation
- ✓ Explores the many career possibilities in cybersecurity
- ✓ Develops skills to create a layered defense-in-depth cybersecurity strategy

Course Details

Target Audience: Secondary and 2-year college vocational students; Reskilling to find a job in cyber

Estimated Time to Completion: 27 hours

Recommended Preparation: Introduction to Cybersecurity and Endpoint Security

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 11 modules
- ✓ 29 Labs and Cisco Packet Tracer activities
- ✓ 58 + interactive activities & quizzes
- ✓ 1 final exam

Course Recognitions: Digital badge

Certification Alignment: CCST Cybersecurity

Recommended Next Course: Cyber Threat Management



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

Cyber Threat Management

Course Overview

This course explores governance in cybersecurity and threat management. Learn to develop policies and ensure your organization complies with ethics standards and legal and regulatory frameworks.

Benefits

The demand for security professionals continues to grow. Develop advanced knowledge you will use in the workplace as a Cybersecurity Technician.

- ✓ Builds a cybersecurity foundation
- ✓ Explores the many career possibilities in cybersecurity
- ✓ Develops skills for managing threats, such as how to assess a network for vulnerabilities, manage risks, and respond to security incidents

Course Details

Target Audience: Secondary and 2-year college vocational students; Reskilling to find a job in cybersecurity.

Estimated Time to Completion: 16 hours

Recommended Preparation: Introduction to Cybersecurity, Endpoint Security, and Network Defense

Course Delivery: Instructor-led or Self-paced

Learning Component Highlights:

- ✓ 6 modules
- ✓ 16 Labs and Cisco Packet Tracer activities
- ✓ 28+ interactive activities & quizzes
- ✓ 1 final exam

Course Recognitions: Digital badge

Certification Alignment: CCST Cybersecurity Certification

Recommended Next Course: CyberOps Associate



Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not required

CCNA: Introduction to Networks (ITN)

Course Overview

The first course in the CCNA curriculum introduces the architectures, models, protocols, and networking elements that connect users, devices, applications and data through the Internet and across modern computer networks – including IP addressing and Ethernet fundamentals.

Benefits

Learn to build simple local area networks (LAN) that integrate IP addressing schemes, foundational network security, and perform basic configurations for routers and switches.

- ✓ Develop skills for entry-level networking jobs
- ✓ Prepare for CCNA certification exam
- ✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering programs

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- 17 modules and 24 practice labs
- 31 Cisco Packet Tracer activities
- 120+ interactive activities, videos, & quizzes
- 1 final exam

Course Recognitions: Digital Badge

Certification Aligned: Cisco Certified Networking Associate

Recommended Next Course:

CCNA: Switching, Routing, and Wireless Essentials (SRWE)



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

CCNA: Enterprise Networking, Security, and Automation (ENSA)

Course Overview

The final course in the CCNA series covers the architecture, security, and operation of an enterprise network, along with introducing the new ways in which network engineers interact with programmable infrastructure.

Benefits

Gain skills to configure and troubleshoot enterprise networks, learn to identify and protect against cybersecurity threats, and discover key concepts of software-defined networking, including controller-based architectures and application programming interfaces (APIs).

- ✓ Develop skills for entry-level networking jobs
- ✓ Prepare for CCNA certification exam
- ✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering programs

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- 14 modules and 12 practice labs
- 29 Cisco Packet Tracer activities
- 100+ interactive activities, videos, & quizzes
- 1 practice certification exam

Course Recognitions: Digital Badge

Certification Aligned: Cisco Certified Networking Associate

Recommended Next Course:
CCNP Enterprise: Core Networking (ENCOR)



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

CCNA: Switching, Routing, and Wireless Essentials (SRWE)

Course Overview

The second course in the CCNA curriculum focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLAN) and security concepts.

Benefits

Students learn key switching and routing concepts. They can perform basic network configuration and troubleshooting, identify and mitigate local area network (LAN) security threats, and configure and secure a basic WLAN.

- ✓ Develop skills for entry-level networking jobs
- ✓ Prepare for CCNA certification exam
- ✓ Fulfill prerequisites to pursue more specialized networking skills

Course Details

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering programs

Estimated Time to Completion: 70 hours

Prerequisites: None

Course Delivery: Instructor-led

Learning Component Highlights:

- 16 modules and 14 practice labs
- 31 Cisco Packet Tracer activities
- 70+ interactive activities, videos, & quizzes
- 1 final exam

Course Recognitions: Digital Badge

Certification Aligned: Cisco Certified Networking Associate

Recommended Next Course:

CCNA: Enterprise Networking, Security, and Automation (ENSA)



Requirements

- ASC Alignment: Required
- Instructor Training: Required
- Physical Equipment: Required

CCNA: Enterprise Networking, Security, and Automation (ENSA) Supplemental Module

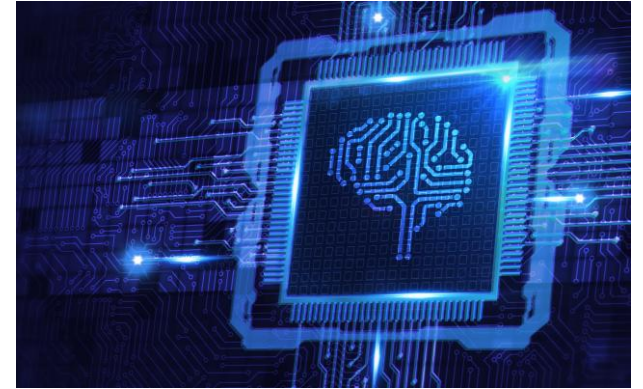
This module provides updated training on AI, machine learning, REST-based APIs, and configuration management to prepare learners for the CCNA 200-301 Exam v1.1.

How to use this module

- **Modules** are short learning components focused on a specific learning objective. A module can be used on its own or to supplement a course or curriculum.
- **Learners:** Prepare for the latest CCNA exam with this module and the CCNA: Switching, Routing, and Wireless Essentials (SRWE) Supplemental Module.
- **Educators:** Enhance your existing CCNA curricula. Assign this module as part of your class syllabus or share it with students as a supplemental resource.

Benefits

- **Up-to-Date Exam Preparation:** Prepare for the latest CCNA exam. By covering new topics such as AI and machine learning in network operations, REST-based APIs, and tools like Ansible and Terraform, learners are positioned for success.
- **Understanding of Advanced Technologies:** The module provides an overview of modern tech, such as AI and machine learning in networking, AI network optimization, and security considerations for generative AI.
- **Hands-On Experience:** Scenarios and examples, such as using ChatGPT as a network simulator and exploring Ansible and Terraform, prepare learners for real-world applications.



Target Audience: Secondary or vocational school and college/university students that are pursuing their CCNA certification.

Length: 4 hours

Prerequisites: Foundational networking knowledge, equivalent to CCST Networking and currently preparing for the CCNA exam.

CCNA: Switching, Routing, and Wireless Essentials (SRWE) Supplemental Module

This module provides an overview of Rapid PVST+, RSTP, and advanced STP enhancement mechanisms to prepare learners for the CCNA 200-301 Exam v1.1.

How to use this module

- **Modules** are short learning components focused on a specific learning objective. A module can be used on its own or to supplement a course or curriculum.
- **Learners:** Prepare for the latest CCNA exam with this module and the CCNA: Enterprise Networking, Security, and Automation (ENSA) Supplemental Module.
- **Educators:** Enhance your existing CCNA curricula. Assign this module as part of your class syllabus or share it with students as a supplemental resource.

Benefits

- **Mastery of Rapid PVST+ and RSTP:** The module focuses on Rapid PVST+ and Rapid Spanning Tree Protocol (RSTP). Learners will develop an understanding of their operations, port roles, and states.
- **Advanced STP Enhancement Techniques:** Learn about configuring and implementing STP enhancement mechanisms such as BPDU Guard, Root Guard, and Loop Guard. These features improve network stability, security, and efficiency by preventing loops and unauthorized root bridge elections.
- **Hands-On Experience:** The module includes exercises and a lab that allow students to configure and verify RSTP settings and STP enhancements.



Target Audience: Secondary or vocational school and college/university students that are pursuing their CCNA certification.

Length: 2 hours

Prerequisites: Foundational networking knowledge, equivalent to CCST Networking and currently preparing for the CCNA exam.