



A CAREER IN CYBERSECURITY

# COMPTIA CERTIFICATIONS



# CYSA+ CSO-002



The CompTIA Cybersecurity Analyst (CySA+) certification verifies that successful candidates have the knowledge and skills required to leverage intelligence and threat detection techniques, analyze and interpret data, identify and address vulnerabilities, suggest preventative measures, and effectively respond to and recover from incidents.



#### EXAM #

CSO-002

#### RELEASE DATE

April 2020

#### LANGUAGE

English and Japanese

#### CE REQUIRED?

Yes

#### ACCREDITATION

Accredited by ANSI to show compliance with the ISO 17024 Standard. It is also approved by the DoD for Directive 8140/8570.01-M

#### PREREQUISITES

Network+, Security+ or equivalent knowledge. Minimum of 4 years of hands-on information security or related experience.

#### PURCHASE CYSA+ HERE

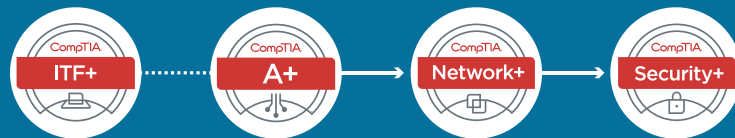
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## Where is this in the CompTIA Career Pathway?

The CompTIA Career Pathways allow IT professionals to achieve vendor-neutral infrastructure and cybersecurity mastery, from beginning to end.

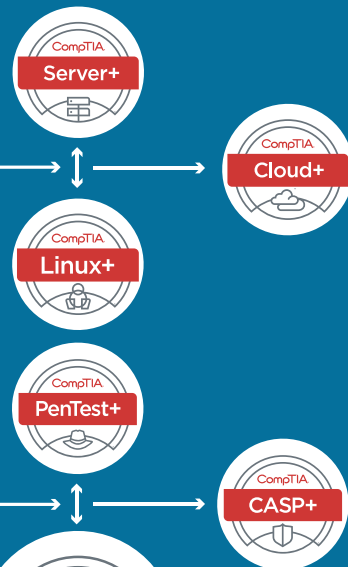
### CORE SKILLS CERTIFICATIONS



### PROFESSIONAL SKILLS



### INFRASTRUCTURE PATHWAY



### CYBERSECURITY PATHWAY

## About the Cybersecurity Pathway

The CompTIA Cybersecurity Career Pathway helps technical specialists achieve cybersecurity mastery, from beginning to end.





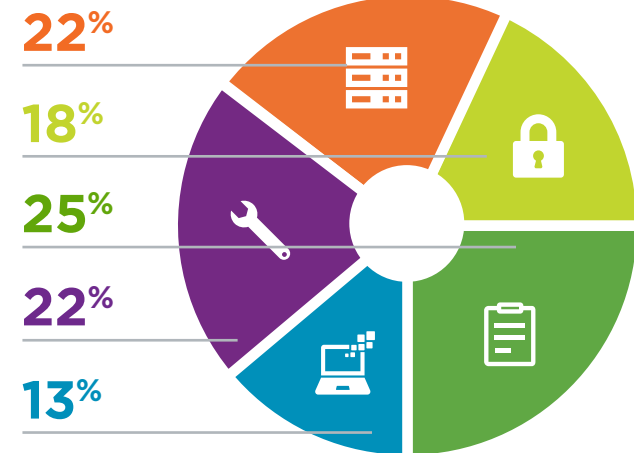
# SKILLS & COMPETENCIES

-  [Threat and Vulnerability Management >](#)
-  [Software and Systems Security >](#)
-  [Security Operations and Monitoring >](#)
-  [Incident Response >](#)
-  [Compliance and Assessment >](#)

[VIEW EXAM OBJECTIVES](#)

## Top CySA+ Job Roles

- Security analyst
  - Tier II SOC analyst
  - Security monitoring
- Threat intelligence analyst
- Security engineer
- Application security analyst
- Incident response or handler
- Compliance analyst
- Threat hunter



## Organizations that Use CySA+

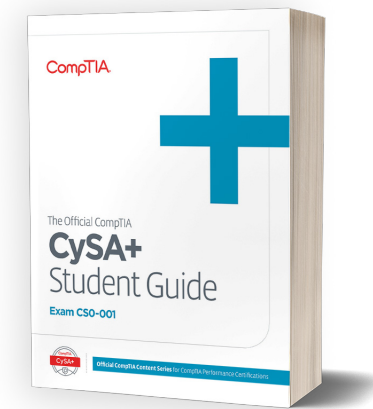
- |                                       |  |
|---------------------------------------|--|
| • U.S. Department of Defense (DoD)    | • KirkpatrickPrice                         |
| • U.S. Department of Veterans Affairs | • Integra                                  |
| • U.S. Navy                           | • Dell SecureWorks                         |
| • Northrop Grumman                    | • Linux Professional Institute             |
| • Target                              | • Boulder Community Health                 |
| • RICOH USA                           | • Western Governors University             |
| • Japan Business Systems (JBS)        | • BlackKnight Cyber Security International |
| • Federal Reserve Bank of Chicago     | • Summit Credit Union                      |
| • Washington State Patrol             |  |

## How does CompTIA CySA+ Compare?

Find out how CompTIA CySA+ compares to the leading certification programs.

[COMPARE COMPTIA CYSA+](#)

# OFFICIAL LEARNING RESOURCES



## Overview

The Official CompTIA CySA+ Guides (Exam CS0-002) are designed to focus on teaching an IT professional the ability to proactively defend and continuously improve the security of an organization through leveraging intelligence and threat detection techniques, analyzing and interpreting data, identifying and addressing vulnerabilities, and effectively responding to and recovering from incidents.

### AVAILABLE OFFICIAL COMPTIA LEARNING RESOURCES FOR INSTRUCTOR-LED TRAINING

 Books  Labs  e-Learning  Exam Prep



### PURCHASE CYSA+ HERE

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## Key Features & Benefits

-  [Designed and Tested Specifically for Instructor-led Training >](#)
-  [Integrate Active Learning >](#)
-  [Focused on Job Roles and Objectives >](#)

-  [Support the Modern Learner >](#)
-  [Refreshed Interior Design and Image Program >](#)

## Instructor Resources

- Course-specific delivery tips
- Facilitator notes
- Solutions to activities and discussions
- PowerPoint slides
- Presentation planners

## Student Resources

- eBook
- Course files
- Videos
- Assessment
- PowerPoint slides
- Solutions to activities and discussions





# COURSE OVERVIEW

This course is for students who are preparing for the CompTIA CySA+ certification exam CS0-002. This course has been created for cybersecurity practitioners who perform job functions related to protecting information systems by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation. This course focuses on the knowledge, ability, and skills necessary to defend those information systems in a cybersecurity context, including protection, detection, analysis, investigation, and response processes. In addition, the course ensures that all members of an IT team—everyone from help desk staff to the Chief Information Officer—understand their role in these security processes.

## Student Guide Lesson Overview

- 1 Lesson 1: Explaining the Importance of Security Controls and Security Intelligence
- 2 Lesson 2: Utilizing Threat Data and Intelligence
- 3 Lesson 3: Analyzing Security Monitoring Data
- 4 Lesson 4: Collecting and Querying Security Monitoring Data
- 5 Lesson 5: Utilizing Digital Forensics and Indicator Analysis Techniques
- 6 Lesson 6: Applying Incident Response Procedures
- 7 Lesson 7: Applying Risk Mitigation and Security Frameworks
- 8 Lesson 8: Performing Vulnerability Management
- 9 Lesson 9: Applying Security Solutions for Infrastructure Management
- 10 Lesson 10: Understanding Data Privacy and Protection
- 11 Lesson 11: Applying Security Solutions for Software Assurance
- 12 Lesson 12: Applying Security Solutions for Cloud and Automation

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### Exam Prep Option

#### CERTMASTER PRACTICE

CompTIA CertMaster Practice is an online knowledge assessment and remediation tool designed to help learners feel more confident and prepared for the CompTIA exam.

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Everybody in technology should have this [CySA+]. It should be mandatory if you're going to stay in IT over the coming decade.

Jim Lucari

SENIOR MANAGER, CERTIFICATION SOLUTIONS DEVELOPMENT, HP ENTERPRISE



# PENTEST+ PTO-001



CompTIA PenTest+ is a certification for intermediate skills level cybersecurity professionals who are tasked with hands-on penetration testing to identify, exploit, report, and manage vulnerabilities on a network.

## EXAM #

PTO-001

## RELEASE DATE

July 2018

## LANGUAGE

English, Japanese

## CE REQUIRED?

Yes

## ACCREDITATION

Accredited by ANSI to show compliance with the ISO 17024 Standard.

## PREREQUISITES

Network+, Security+ or equivalent knowledge. Minimum of 3-4 years of hands-on information security or related experience.

## PURCHASE PENTEST+ HERE

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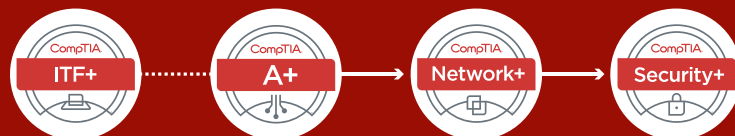
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## Where is this in the CompTIA Career Pathway?

The CompTIA Career Pathways allow IT professionals to achieve vendor-neutral infrastructure and cybersecurity mastery, from beginning to end.

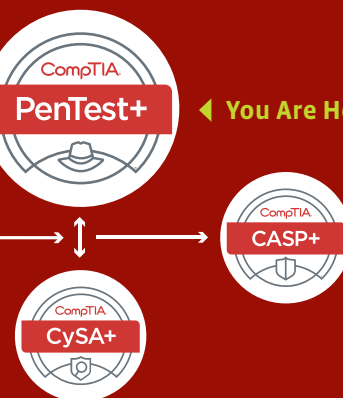
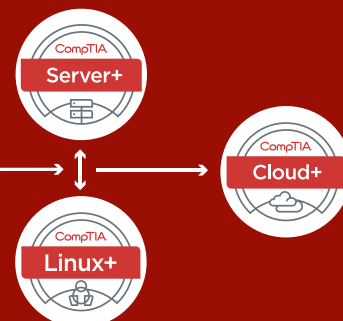
### CORE SKILLS CERTIFICATIONS



### PROFESSIONAL SKILLS



### INFRASTRUCTURE PATHWAY



### CYBERSECURITY PATHWAY

## About the Cybersecurity Pathway

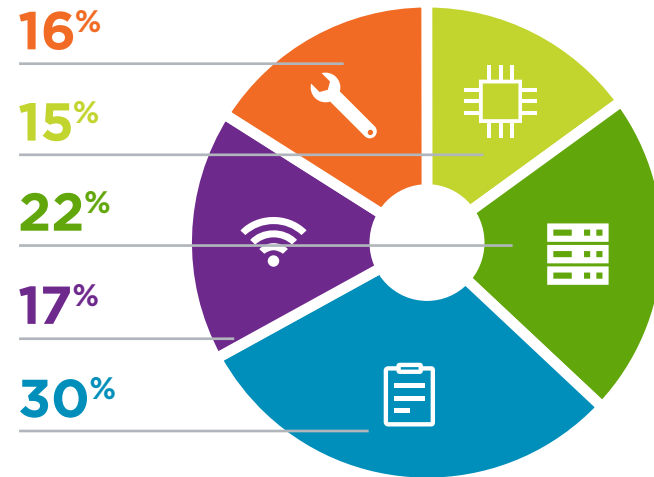
The CompTIA Cybersecurity Career Pathway helps technical specialists achieve cybersecurity mastery, from beginning to end.



# SKILLS & COMPETENCIES

-  [Reporting and Communication >](#)
-  [Planning & Scoping >](#)
-  [Information Gathering & Vulnerability Identification >](#)
-  [Penetration Testing Tools >](#)
-  [Attacks & Exploits >](#)

[VIEW EXAM OBJECTIVES](#)



## Top PenTest+ Job Roles

- Penetration/Vulnerability Tester
- Security Analyst (II)
- Vulnerability Assessment Analyst
- Network Security Operations

## Organizations that Use PenTest+

- |                                    |   |
|------------------------------------|---|
| • Brotherhood Mutual               | • Integra LifeSciences                                |
| • Global Cyber Security            | • Enterprise Holdings                                 |
| • SecureWorks                      | • Paylocity   |
| • North State Technology Solutions | • Johns Hopkins University Applied Physics Laboratory |
| • BlackFire Consulting             | • ASICS Corporation                                   |
| • TransUnion                       |   |
| • Las Vegas Sands Corporation      |   |

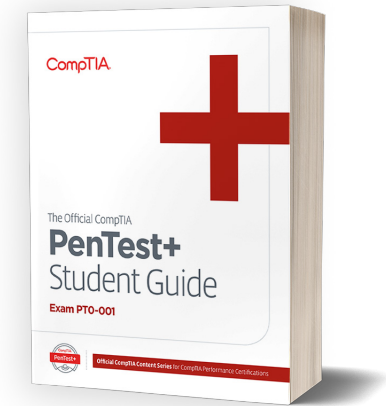


## How does CompTIA PenTest+ Compare?

Find out how CompTIA PenTest+ compares to the leading certification programs.

[COMPARE COMPTIA PENTEST+](#)

# OFFICIAL LEARNING RESOURCES



## Overview

The Official CompTIA PenTest+ Guide (Exam PTO-001) are designed for cybersecurity practitioners who want to develop penetration testing skills to enable them to identify information-system vulnerabilities and effective remediation techniques for those vulnerabilities. These materials focus on the knowledge, ability, and skills necessary to perform tasks on systems as well as management skills used to plan, scope, and manage weaknesses, not just exploit them, as well as prepare candidates to take the CompTIA PenTest+ certification exam.

### AVAILABLE OFFICIAL COMPTIA LEARNING RESOURCES FOR INSTRUCTOR-LED TRAINING

-  Books
-  Labs
-  e-Learning
-  Exam Prep

### PURCHASE PENTEST+ HERE

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## Key Features & Benefits

-  [Robust Assessment >](#)
-  [Integrate Active Learning >](#)
-  [Alignment and Consistency Across Book and Assessment >](#)
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# COURSE OVERVIEW

As organizations scramble to protect themselves and their customers against privacy or security breaches, the ability to conduct penetration testing is an emerging skill set that is becoming ever more valuable to the organizations seeking protection, and ever more lucrative for those who possess these skills. In this course, you will be introduced to general concepts and methodologies related to pen testing, and you will work your way through a simulated pen test for a fictitious company. This course will assist you if you are pursuing the CompTIA PenTest+ certification, as tested in exam PT0-001.

## Student Guide Lesson Overview

- 1 Planning and Scoping Penetration Tests
- 2 Conducting Passive Reconnaissance
- 3 Performing Non-Technical Tests
- 4 Conducting Active Reconnaissance
- 5 Analyzing Vulnerabilities
- 6 Penetrating Networks
- 7 Exploiting Host-Based Vulnerabilities
- 8 Testing Applications
- 9 Completing Post-Exploit Tasks
- 10 Analyzing and Reporting Pen Test Results

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### Exam Prep Option

#### CERTMASTER PRACTICE

CompTIA CertMaster Practice is an online knowledge assessment and remediation tool designed to help learners feel more confident and prepared for the CompTIA exam.

### Purchase PenTest+ Here

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PenTest+ demonstrates knowledge beyond entry-level and that the individual is competent to add value within a pen tester team immediately; this person can hit the ground running.

Gavin Dennis

SENIOR IT SECURITY CONSULTANT



# CASP+ CAS-003



CompTIA Advanced Security Practitioner (CASP+) is the ideal certification for those technical professionals who wish to remain immersed in technology as opposed to managing cybersecurity policy and frameworks.

## PREREQUISITES

Students should have 24-36 months' experience with IT networking, network storage, and data center administration. Students should also have familiarity with any major hypervisor technologies for server virtualization, basic knowledge of common cloud service models, and common cloud deployment models.



## EXAM #

CAS-003

## RELEASE DATE

April 2018

## LANGUAGE

English, Japanese

## CE REQUIRED?

Yes

## ACCREDITATION

Accredited by ANSI to show compliance with the ISO 17024 Standard. It is also approved by the DoD for Directive 8140/8570.01-M

## PURCHASE CASP+ HERE

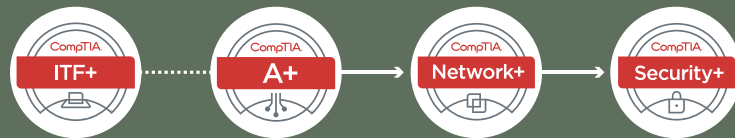
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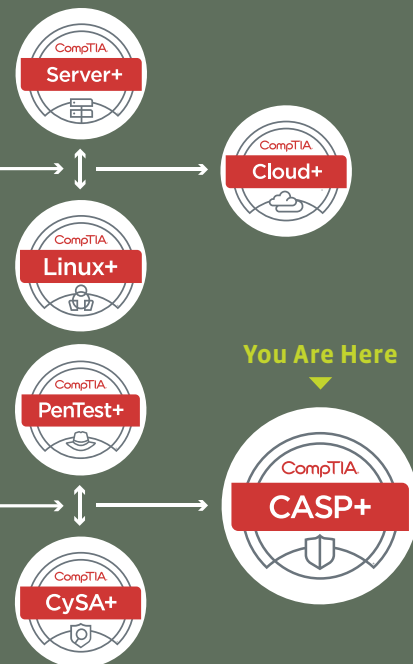
### CORE SKILLS CERTIFICATIONS



### PROFESSIONAL SKILLS



### INFRASTRUCTURE PATHWAY



### CYBERSECURITY PATHWAY

You Are Here



## About the Cybersecurity Pathway

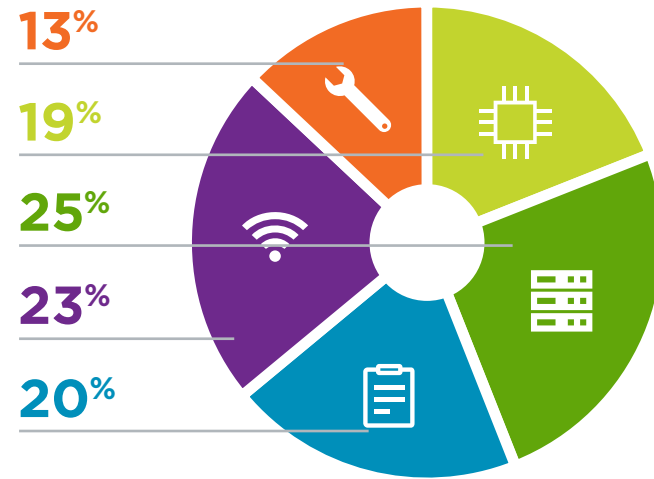
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# SKILLS & COMPETENCIES

-  [Research, Development and Collaboration >](#)
-  [Risk Management >](#)
-  [Enterprise Security Architecture >](#)
-  [Technical Integration of Enterprise Security >](#)
-  [Enterprise Security Operations >](#)



[VIEW EXAM OBJECTIVES](#)

## Top CASP+ Job Roles

- Security Architect
- Application Security Engineer
- Technical Lead Analyst
- Security Engineer

## Organizations that Use CASP+

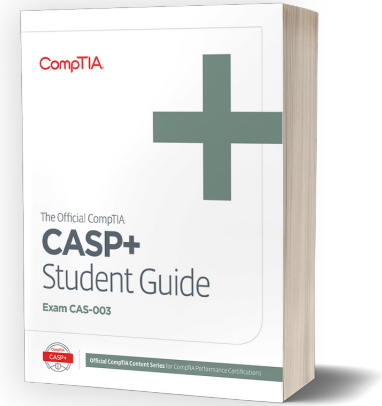
- Verizon Telematics
- U.S. Navy
- U.S. Army
- Network Solutions, LLC
- One Source Technologies Inc.
- Booz Allen Hamilton Inc

## How does CompTIA CASP+ Compare?

Find out how CompTIA CASP+ compares to the leading certification programs.

[COMPARE COMPTIA CASP+](#)


# OFFICIAL LEARNING RESOURCES



## Overview

The Official CompTIA CASP+ Guide (Exam CAS-003) will deliver advanced principles of information security to help combat threats. In this guide, students will learn to analyze and apply advanced security concepts, principles, and implementations that contribute to enterprise-level cybersecurity. It provides full coverage of the objectives for the CompTIA CASP+ certification and will help prepare students to take the exam.

### AVAILABLE OFFICIAL COMPTIA LEARNING RESOURCES FOR INSTRUCTOR-LED TRAINING






-  Books
-  Labs
-  e-Learning

### PURCHASE CASP+ HERE

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- Solutions to activities and discussions





# COURSE OVERVIEW

This course is for students who are preparing for the CompTIA Advanced Security Practitioner (CASP+) certification exam CAS-003. In this course, students will expand their knowledge of information security to apply more advanced principles. Students will apply critical thinking and judgment across a broad spectrum of security disciplines to propose and implement sustainable security solutions that map to organizational strategies; translate business needs into security requirements; support IT governance and risk management; architect security for hosts, networks, and software; respond to security incidents; and more.

## Student Guide Lesson Overview

- 1 Supporting IT Governance and Risk Management
- 2 Leveraging Collaboration to Support Security
- 3 Using Research and Analysis to Secure the Enterprise
- 4 Integrating Advanced Authentication and Authorization Techniques
- 5 Implementing Cryptographic Techniques
- 6 Implementing Security Controls for Hosts
- 7 Implementing Security Controls for Mobile Devices
- 8 Implementing Network Security
- 9 Implementing Security in the Systems and Software Development Lifecycle
- 10 Integrating Assets in a Secure Enterprise Architecture
- 11 Conducting Security Assessments
- 12 Responding to and Recovering from Incidents

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## Purchase CASP+ Here

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**CASP+ occupies a strongly-needed niche. I feel that it's one of the most important certifications that I hold.**

Weylin Piegorsch

COMPUTER SCIENCES CORPORATION