

# CompTIA SecurityX

## COURSE OVERVIEW

Information security threats are on the rise globally. Organizations are increasingly concerned over the lack of adequately trained senior IT security staff's ability to effectively lead and manage the overall cybersecurity resiliency against the next attack. The CASP+ certification qualifies advanced skills required of security architects and senior security engineers to effectively design, implement, and manage cybersecurity solutions on complex enterprise networks.

The Official CompTIA CASP+ Student Guide (CAS-004) has been developed by CompTIA for the CompTIA CASP+ candidate. Rigorously evaluated to validate coverage of the CompTIA CASP+ (CAS-004) exam objectives, The Official CompTIA CASP+ course teaches the knowledge and skills to understand security architecture, security operations, security engineering and cryptography, governance, risk and compliance, and prepare candidates to take the CompTIA CASP+ certification exam.

The name change from CASP+ to SecurityX will not affect the certification status of current CASP+ certification holders or the continuing education (CE) program. Those with an active CASP+ certification will automatically receive the rebranded SecurityX badge and can download a new certificate and transcript in CertMetrics. Unexpired CASP+ exam vouchers will work for the SecurityX exam.

## WHO WILL BENEFIT FROM THIS COURSE?

At least 10 years of general hands-on IT experience, including at least 5 years of hands-on security experience, with expertise equivalent to Network+, Security+, CySA+, Cloud+, and PenTest+ certifications or similar knowledge.

## PREREQUISITES

- CompTIA Security+® Training, or equivalent experience.
- Ten years of IT (Information Technology) administration experience, including at least five years of hands-on technical security experience.

## COURSE OBJECTIVES

The CompTIA SecurityX (CAS-005) validates that the successful candidate has the knowledge and skills required to:

- Architect, engineer, integrate, and implement secure solutions across complex environments to support a resilient enterprise.
- Utilize automation, monitoring, detection, and incident response to support ongoing security operations in an enterprise environment proactively.
- Apply security best practices across cloud, on-premises, and hybrid environments.

- Incorporate cryptographic technologies and techniques to strengthen information security, considering the impact of emerging trends such as artificial intelligence.
- Implement appropriate governance, compliance, risk management, and threat-modeling strategies to enhance enterprise security and resilience.

## **COURSE OUTLINE**

### Module 1: Introduction

- Preassessment

### Module 2: Summarizing Governance Risk and Compliance

- Implement Appropriate Governance Components
- Explain Legal Compliance
- Apply Risk Management Strategies
- Module Quiz

### Module 3: Implementing Architecture and Design

- Apply Software Development (Part 1)
- Apply Software Development (Part 2)
- Integrate Software Architecture (Part 1)
- Integrate Software Architecture (Part 2)
- Support Operational Resilience (Part 1)
- Support Operational Resilience (Part 2)
- Implement Cloud Infrastructure (Part 1)
- Implement Cloud Infrastructure (Part 2)
- Implement Cloud Infrastructure (Part 3)
- Integrate Zero Trust Concepts (Part 1)
- Integrate Zero Trust Concepts (Part 2)
- Troubleshoot using AAA and IAM (Part 1)
- Troubleshoot using AAA and IAM (Part 2)
- Module Quiz

### Module 4: Understanding Security Engineering

- Enhance Endpoint Security (Part 1)
- Enhance Endpoint Security (Part 2)
- Configure Network Infrastructure
- Initiate Security Automation (Part 1)
- Initiate Security Automation (Part 2)
- Apply Cryptography Concepts (Part 1)
- Apply Cryptography Concepts (Part 2)
- Module Quiz

### Module 5: Applying Security Operations and Incident Response

- Perform Threat Modeling
- Examine Security Monitoring (Part 1)
- Examine Security Monitoring (Part 2)
- Analyze Known Attack Methods and Associated Mitigations

- Apply Threat Hunting Tools and Technologies (Part 1)
- Apply Threat Hunting Tools and Technologies (Part 2)
- Evaluate Incident Analysis and Response (Part 1)
- Evaluate Incident Analysis and Response (Part 2)
- Module Quiz

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What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

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- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

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- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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