Course Outline

Course Name: CompTIA Security X

Course Code: CO-SECX

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
5 Days	Advanced	Cybersecurity	VITL/In Class	N/A

Course Overview

CompTIA SecurityX serves as the capstone certification in the CompTIA Cybersecurity Career Pathway, intended to be the final certification for those seeking to prove their mastery of advanced cybersecurity skills. Targeted at professionals with 5 to 10 years of experience, SecurityX represents the pinnacle of cybersecurity certifications.

It is specifically designed for senior security engineers and security architects tasked with leading and improving an enterprise's cybersecurity readiness. CompTIA Advanced Security Practitioner (CASP+) has been renamed to CompTIA SecurityX, the name change emphasizes the advanced, or “Xpert” level, certifications in the CompTIA portfolio.

Target Audience

This course is designed for IT professionals in the cybersecurity industry whose primary job responsibility is to secure complex enterprise environments. The target student should have real-world experience with the technical administration of these enterprise environments. The target audience includes the following:

- Senior Security Engineer
- Security Architects

Prerequisites

Before attending this course, delegates must have achieved the follow requirements:

- Minimum 10 years general hands-on IT experience, 5 years being hands-on security, with Network+, Security+, CySA+, Cloud+ and PenTest+ or equivalent knowledge.

Course Objectives

The CompTIA SecurityX certification exam will certify 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.
- Use automation, monitoring, detection, and incident response to support ongoing security operations in an enterprise environment proactively.
- Apply security practices to cloud, on-premises, and hybrid environments.
- Consider cryptographic technologies and techniques, as well as the impact of emerging trends (e.g. artificial intelligence) on information security.
- Use the appropriate governance, compliance, risk management, and threat modelling strategies throughout the enterprise.

Course Content

Lesson 1: Pre-Assessment

Lesson 2: Summarizing Governance, Risk, and Compliance

- Performing Risk Management Activities
- Summarizing Governance & Compliance Strategies

Lesson 3: Implementing Architecture & Design

- Performing Risk Management Activities
- Identifying Infrastructure Services
- Performing Software Integration
- Explain Virtualization, Cloud, and Emerging Technology
- Exploring Secure Configurations and System Hardening
- Understanding Security Considerations of Cloud and Specialized Platforms

Lesson 4: Understanding Security Engineering

- Exploring Secure Configurations and Systems
- Understanding Security Considerations of Cloud Specialized Platforms Implementing Cryptography

Lesson 5: Applying Security Operations & Incident Response

- Implementing Public Key Infrastructure (PKI)
- Understanding Security Considerations of Cloud and Specialized Platform Developing Incident Response Capabilities

ASSOCIATED CERTIFICATIONS & EXAM

This course is designed to prepare students to take the CompTIA SecurityX CAS-005 Exam. Successfully passing this exam will result in the achievement of the CompTIA SecurityX Certification.