CompTIA Advanced Security Practitioner+ CASP+

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.

Target Audience

Security Architect

Cybersecurity Engineer

SOC Manager

Cyber Risk Analyst

Chief Information Security Officer

Course Objectives

CASP+ is an advanced-level cybersecurity certification covering technical skills in security architecture and senior security engineering in traditional, cloud, and hybrid environments, governance, risk, and compliance skills, assessing an enterprise's cybersecurity readiness, and leading technical teams to implement enterprise-wide cybersecurity solutions. Successful candidates will have the knowledge required to:

- Architect, engineer, integrate, and implement secure solutions across complex environments to support a resilient enterprise

- Use monitoring, detection, incident response, and automation to proactively support ongoing security operations in an enterprise environment

- Apply security practices to cloud, on-premises, endpoint, and mobile infrastructure, while considering cryptographic technologies and techniques

- Consider the impact of governance, risk, and compliance requirements throughout the enterprise

Duration
5 Days

Certifications
CAS-004

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Course Outline

- **Lesson 1: Perform Risk Management Activities**

- **Lesson 2: Summarizing Governance & Compliance Strategies**

- **Lesson 3: Implementing Business Continuity & Disaster Recovery**

- **Lesson 4: Identifying Infrastructure Services**

- **Lesson 5: Performing Software Integration**

- **Lesson 6: Explain Virtualization, Cloud and Emerging Technology**

- **Lesson 7: Exploring Secure Configurations and System Hardening**

- **Lesson 8: Understanding Security Considerations of Cloud and Specialized Platforms**

- **Lesson 9: Implementing Cryptography**

- **Lesson 10: Implementing Public Key Infrastructure (PKI)**

- **Lesson 11: Architecting Secure Endpoints**

- **Lesson 12: Summarizing IIoT & IoT Concepts**

Prerequisites

CompTIA CASP+ is aimed at IT Professionals with a minimum of ten years of experience in IT administration, including at least five years of hands-on technical security experience.

To be fit for this advanced course, you should have at least a foundational knowledge of information security. This includes, but is not limited to:

- Knowledge of identity and access management (IAM) concepts and common implementations, such as authentication factors and directory services.

- Knowledge of cryptographic concepts and common implementations, such as Secure Sockets Layer/Transport Layer Security (SSL/TLS) and public key infrastructure (PKI).

- Knowledge of computer networking concepts and implementations, such as the TCP/IP model and configuration of routers and switches.

- Knowledge of common security technologies used to safeguard the enterprise, such as anti-malware solutions, firewalls, and VPNs.

You can obtain this level of knowledge by taking the CompTIA® Security+® (Exam SY0-601) course or by demonstrating this level of knowledge by passing the exam.

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