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Learning Style: Virtual Classroom

Technology: CompTIA

Difficulty: Beginner

Course Duration: 5 Days

CompTIA Security+



The CompTIA Security+ certification is an internationally recognized beginner to intermediate cybersecurity certification, validating the hands-on skills required to protect networks, manage risk, and defend against evolving cyber threats. This CompTIA Security+ training course builds on foundational IT knowledge, helping professionals develop the technical and analytical expertise needed to secure modern systems and infrastructure.

Through this Security+ instructor-led training, students gain the skills and

confidence to prepare for the CompTIA Security+ certification exam Delivered in an interactive virtual classroom, this live Security+ training combines expert-led sessions, practical labs, and real-world exercises to strengthen students' understanding of network security fundamentals, threat detection and response, and security governance fundamentals. By completing this Security+ virtual course, students will be prepared to meet the security demands of enterprise environments and validate their readiness for mid-level cybersecurity roles.

This Security+ online instructor course bridges the gap between entry-level IT knowledge and professional cybersecurity skills. Students learn to identify system vulnerabilities, implement layered defenses, and respond effectively to active threats.

Completing this cyber operations training positions professionals to earn the CompTIA Security+ certification and qualify for roles such as Security Administrator, Network Engineer, Systems Analyst, or Cybersecurity Specialist. According to CompTIA, Security+ certified professionals earn an average salary of $95,000 per year, depending on experience and specialization.

Course Objectives:

With the help of this course, you will be able to deploy information security across varying contexts. Once the course is complete, it will allow you to:

- Proactively implement sound security protocols to mitigate security risks
- Quickly respond to security issues
- Retroactively identify where security breaches may have occurred
- Design a network, on-site or in the cloud, with security in mind

Audience:

This course is intended to be undertaken by those IT Professionals, having administrative and networking skills in Windows®-based Transmission Control Protocol/Internet Protocol (TCP/IP) networks. Additionally, those professionals who are familiar with operating systems like Unix, macOS®, Linux, and wish to further progress in their IT career by obtaining in-depth knowledge of security topics. It can also be undertaken by those opting to take the CompTIA Security+ certification examination or wish to use this as a means to attempt advanced level certifications related to security.

Prerequisites:

- In order to be successful in this course, all students should have basic knowledge of Windows and know how to use it, along with an understanding of networking and computer concepts.

Course Outline:

- Lesson 1: Summarize Fundamental Security Concepts
    - Topic 1A: Security Concepts
    - Topic 1B: Security Controls
- Lesson 2: Compare Threat Types
    - Topic 2A: Threat Actors
    - Topic 2B: Attack Surfaces
    - Topic 2C: Social Engineering
- Lesson 3: Explain Cryptographic Solutions
    - Topic 3A: Cryptographic Algorithms
    - Topic 3B: Public Key Infrastructure
    - Topic 3C: Cryptographic Solutions
- Lesson 4: Implement Identity and Access Management
    - Topic 4A: Authentication
    - Topic 4B: Authorization
    - Topic 4C: Identity Management
- Lesson 5: Secure Enterprise Network Architecture
    - Topic 5A: Enterprise Network Architecture
    - Topic 5B: Network Security Appliances
    - Topic 5C: Secure Communications
- Lesson 6: Secure Cloud Network Architecture
    - Topic 6A: Cloud Infrastructure
    - Topic 6B: Embedded Systems and Zero Trust Architecture
- Lesson 7: Explain Resiliency and Site Security Concepts
    - Topic 7A: Asset Management
    - Topic 7B: Redundancy Strategies
    - Topic 7C: Physical Security
- Lesson 8: Explain Vulnerability Management
    - Topic 8A: Device and OS Vulnerabilities
    - Topic 8B: Application and Cloud Vulnerabilities
    - Topic 8C: Vulnerability Identification Methods
    - Topic 8D: Vulnerability Analysis and Remediation
- Lesson 9: Evaluate Network Security Capabilities
    - Topic 9A: Network Security Baselines
    - Topic 9B: Network Security Capability Enhancement
- Lesson 10: Assess Endpoint Security Capabilities
    - Topic 10A: Implement Endpoint Security
    - Topic 10B: Mobile Device Hardening
- Lesson 11: Enhance Application Security Capabilities
    - Topic 11A: Application Protocol Security Baselines
    - Topic 11B: Cloud and Web Application Security Concepts
- Lesson 12: Explain Incident Response and Monitoring Concepts
    - Topic 12A: Incident Response
    - Topic 12B: Digital Forensics
    - Topic 12C: Data Sources
    - Topic 12D: Alerting and Monitoring Tools

- Lesson 13: Analyze Indicators of Malicious Activity
    - Topic 13A: Malware Attack Indicators
    - Topic 13B: Physical and Network Attack Indicators
    - Topic 13C: Application Attack Indicators
- Lesson 14: Summarize Security Governance Concepts
    - Topic 14A: Policies, Standards, and Procedures
    - Topic 14B: Change Management
    - Topic 14C: Automation and Orchestration
- Lesson 15: Explain Risk Management Processes
    - Topic 15A: Risk Management Processes and Concepts
    - Topic 15B: Vendor Management Concepts
    - Topic 15C: Audits and Assessments
- Lesson 16: Summarize Data Protection and Compliance Concepts
    - Topic 16A: Data Classification and Compliance
    - Topic 16B: Personnel Policies

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