

## [CT-Security+]: CompTIA Security+(SY0-601)

Level	: Intermediate
Length	: 5 days
Delivery Method	: Instructor-led (Classroom) / Live-Online

### Course Overview

CompTIA Security+ is a global certification that validates the baseline skills you need to perform core security functions and pursue an IT security career

### Why is it different?

- **More choose Security+** – chosen by more corporations and defense organizations than any other certification on the market to validate core security skills and for fulfilling DoD 8570 compliance.
- **Security+** proves hands-on skills – the only baseline cybersecurity certification emphasizing vendor-neutral, hands-on practical skills, ensuring the security professional is better prepared to problem solve a wider variety of today's complex issues.
- **More job roles turn to Security+ to supplement skills** – baseline cybersecurity skills are applicable across more of today's job roles to secure systems, software and hardware.
- **Security+ is aligned to the latest trends and techniques** – covering the most core technical skills in risk assessment and management, incident response, forensics, enterprise networks, hybrid/cloud operations, and security controls, ensuring high-performance on the job

### Audience Profile

This course is targeted toward the information technology (IT) professional who has networking and administrative skills in Windows®-based Transmission Control Protocol/Internet Protocol (TCP/IP) networks; familiarity with other operating systems, such as macOS®, Unix, or Linux; and who wants to further a career in IT by acquiring foundational knowledge of security topics; preparing for the CompTIA Security+ certification examination; or using Security+ as the foundation for advanced security certifications or career roles.

### Course Outline

#### Module 1: Comparing and Contrasting Attacks

##### Lessons

- Compare and Contrast Information Security Roles
- Explain Threat Actor Types
- Compare and Contrast Social Engineering Attack Types
- Determine Malware Types

#### Module 2: Comparing and Contrasting Security Controls

##### Lessons

- Compare and Contrast Security Control and Framework Types
- Follow Incident Response Procedure

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**Module 3: Assessing Security Posture with Software Tools****Lessons**

- Explaining Penetration Testing Concepts
- Assess Security Posture with Topology Discovery Software Tools
- Assess Security Posture with Fingerprinting and Sniffing Software Tools
- Assess Security Posture with Vulnerability Scanning Software Tools

**Module 4: Explaining Basic Cryptography Concepts****Lessons**

- Compare and Contrast Basic Concept of Cryptography
- Explain Hashing and Symmetric Cryptographic Algorithms
- Explain Asymmetric Cryptographic Algorithms

**Module 5: Implementing a Public Key Infrastructure****Lessons**

- Implement Certificates and Certificate Authorities
- Implement PKI Management

**Module 6: Implementing Authentication Controls****Lessons**

- Compare and Contrast Identity and Authentication Concepts
- Install and Configure Authentication Protocols
- Implement Multifactor Authentication

**Module 7: Managing Access Services and Accounts****Lessons**

- Install and Configure Authorization and Directory Services
- Implement Access Management Controls
- Differentiate Account Management Practices
- Implement Account Auditing and Recertification

**Module 8: Implementing a Secure Network Architecture****Lessons**

- Implement Secure Network Architecture Concepts
- Install and Configure a Secure Switching infrastructure
- Install and Configure Network Access Control
- Install and Configure a Secure Routing and NAT Infrastructure

**Module 9: Installing and Configuring Security Appliances****Lessons**

- Install and Configure Firewalls and Proxies
- Install and Configure Load Balancers
- Install and Configure Intrusion Detection/Prevention Systems
- Install and Configure Data Loss Prevention (DLP) Systems
- Install and Configure Logging and SIEM Systems

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**Module 10: Installing and Configuring Wireless and Physical Access Security****Lessons**

- Install and Configure a Wireless Infrastructure
- Install and Configure Wireless Security Settings
- Explain the Importance of Physical Security controls

**Module 11: Deploying Secure Host, Mobile, And Embedded Systems****Lessons**

- Implement Secure Hardware Systems Design
- Implement Secure Host System Design
- Implement Secure Mobile Device Systems Design
- Implement Secure Embedded System Design

**Module 12: Implementing Secure Network Access Protocols****Lessons**

- Implement Secure Network Operations Protocols
- Implement Secure Remote Access Protocols
- Implement Secure Remote Administrations Protocols

**Module 13: Implementing Secure Network Applications****Lessons**

- Implement Secure Web Services
- Implement Secure Communications Services
- Summarize Secure Virtualization Infrastructure
- Summarize Secure Cloud Service

**Module 14: Explaining Risk management and Disaster Recovery Concepts****Lessons**

- Explain Risk Management Processes and Concepts
- Explain Resiliency and Automation Strategies
- Explain Disaster Recovery and Continuity of Operations Concepts
- Summarize Basic Concepts of Forensics

**Module 15: Summarizing Secure Applications Development Concepts****Lessons**

- Explain the Impact of Vulnerability Types
- Summarize Secure Application Development Concepts

**Module 16: Explaining Organizational Security Concepts****Lessons**

- Explain the Importance of Security Policies
- Implement Data Security and Privacy Practices
- Explain the importance of Personnel Management

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