



# CompTIA: Security+ Certification

Course ID #: 1200-350-03-W

Hours: 35

## Course Content

### Course Description:

If you intend to pass the CompTIA Security+ (Exam SY0-701) certification examination, this course can be a significant part of your preparation. But certification is not the only key to professional success in the field of IT security. Today's job market demands individuals with demonstrable skills, and the information and activities in this course can help you build your cybersecurity skill set so that you can confidently perform your duties in any entry-level security role.

### Course Objectives:

Upon successful completion of this course, students will be able to:

- Summarize fundamental security concepts.
- Compare threat types.
- Explain appropriate cryptographic solutions.
- Implement identity and access management.
- Secure enterprise network architecture.
- Secure cloud network architecture.
- Explain resiliency and site security concepts.
- Explain vulnerability management.
- Evaluate network security capabilities.
- Assess endpoint security capabilities.
- Enhance application security capabilities.
- Explain incident response and monitoring concepts.
- Analyze indicators of malicious activity
- Summarize security governance concepts.
- Explain risk management processes.
- Summarize data protection and compliance concepts

### Prerequisites:

To ensure your success in this course, you should have a minimum of two years of experience in IT administration with a focus on security, hands-on experience with technical information security, and a broad knowledge of security concepts. CompTIA A+ and CompTIA Network+, or the equivalent knowledge, is strongly recommended.



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## Target Audience:

The Official CompTIA Security+ (Exam SY0-701) is the primary course you will need to take if your job responsibilities include safeguarding networks, detecting threats, and securing data in your organization. You can take this course to prepare for the CompTIA Security+ (Exam SY0-701) certification examination.

## Topics:

### Lesson 1: Summarize Fundamental Security

#### Concepts

- Security Concepts
- Security Controls

### Lesson 2: Compare Threat Types

- Threat Actors
- Attack Surfaces
- Social Engineering

### Lesson 3: Explain Cryptographic Solutions

- Cryptographic Algorithms
- Public Key Infrastructure
- Cryptographic Solutions

### Lesson 4: Implement Identity and Access Management

- Authentication
- Authorization
- Identity Management

### Lesson 5: Secure Enterprise Network Architecture

- Enterprise Network Architecture
- Network Security Appliances
- Secure Communications

### Lesson 6: Secure Cloud Network Architecture

- Cloud Infrastructure
- Embedded Systems and Zero Trust Architecture

### Lesson 7: Explain Resiliency and Site Security Concepts

- Asset Management
- Redundancy Strategies
- Physical Security

### Lesson 8: Explain Vulnerability Management

- Device and OS Vulnerabilities
- Application and Cloud Vulnerabilities
- Vulnerability Identification Methods
- Vulnerability Analysis and Remediation

### Lesson 9: Evaluate Network Security Capabilities

- Network Security Baselines
- Network Security Capability Enhancement

### Lesson 10: Assess Endpoint Security Capabilities

- Implement Endpoint Security
- Mobile Device Hardening



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## **Lesson 11: Enhance Application Security**

### **Capabilities**

- Application Protocol Security Baselines
- Cloud and Web Application Security Concepts

## **Lesson 12: Explain Incident Response and Monitoring Concepts**

- Incident Response
- Digital Forensics
- Data Sources
- Alerting and Monitoring Tools

## **Lesson 13: Analyze Indicators of Malicious Activity**

- Malware Attack Indicators
- Physical and Network Attack Indicators

## **Lesson 14: Summarize Security Governance Concepts**

- Policies, Standards, and Procedures
- Change Management
- Automation and Orchestration

## **Lesson 15: Explain Risk Management Processes**

- Risk Management Processes and Concepts
- Vendor Management Concepts
- Audits and Assessments

## **Lesson 16: Summarize Data Protection and Compliance Concepts**

- Data Classification and Compliance
- Personnel Policies

Register for this class by visiting us at:

[www.tcworkshop.com](http://www.tcworkshop.com) or calling us at 800-639-3535