



CompTIA Security+ 601 certification

Table of Contents:

- > Program Overview
- > Program Features
- > Delivery Mode
- > Prerequisites
- > Target Audience
- > Key Learning Outcomes
- > Course Curriculum
- > About Us

Program Overview:

CompTIA Security+ 601 is a globally trusted certification that validates foundational, vendor-neutral IT security knowledge and skills. As a benchmark for best practices in IT security, this certification training covers the essential principles of network security and risk management.

Program Features:

- > Covers 6 domains required to become an IT security professional
- > Industry-recognized course completion certificate
- > Hands-on based learning
- > Exam Voucher Included
- > Exam pass guarantee (India Only)
- > Access to CertMaster Labs

Delivery Mode:

Live Virtual Classroom

Prerequisites:

There are no specific prerequisites to take up this certification but it is recommended that individuals take the Network+ certification before taking the CompTIA Security+ 601 training and certification exam.

Target Audience:

The CompTIA Security+ 601 course is ideal for professionals who are working in the roles of system administrators, network administrators, security administrators, and IT auditors.

Key Learning Outcomes:

By the end of this online CompTIA Security+ training, you will be able to:

- > Assess the security posture of an enterprise environment and recommend and implement appropriate security solutions
- > Monitor and secure hybrid environments, including cloud, mobile, and IoT
- > Operate with an awareness of applicable laws and policies, including principles of governance, risk, and compliance
- > Identify, analyze, and respond to security events and incidents

Course Curriculum:

Lesson 01 - Attacks, Threats, and Vulnerabilities

Comparing Security Roles and Controls

- > Compare and Contrast Information Security Roles
- > Compare and Contrast Security Control and Framework Types
- > Q&A with Knowledge Checks

Threat Actors and Threat

- > Threat Actor Types and Attack Vectors
- > Threat Intelligence Sources
- > Q&A with Knowledge Checks

Performing Security Assessments

- > Assess Organizational Security with Network Reconnaissance Tools
- > Security Concerns with General Vulnerability Types
- > Vulnerability Scanning Techniques
- > Penetration Testing Concepts
- > Q&A with Knowledge Checks

Identifying Social Engineering and Malware

- > Compare and Contrast Social Engineering Techniques.
- > Analyze Indicators of Malware-Based Attacks
- > Q&A with Knowledge Checks

Lesson 02 - Architecture and Design

Summarizing Basic Cryptographic Concepts

- › Compare and Contrast Cryptographic Ciphers
- › Summarize Cryptographic Modes of Operation
- › Summarize Cryptographic Use Cases and Weaknesses
- › Summarize Other Cryptographic Technologies
- › Q&A with Knowledge Checks

Implementing Public Key Infrastructure

- › Certificates and Certificate Authorities
- › PKI Management
- › Q&A with Knowledge Checks

Implementing Authentication Controls

- › Authentication Design Concepts
- › Knowledge-Based Authentication
- › Authentication Technologies
- › Biometrics Authentication Concepts
- › Q&A with Knowledge Checks

Implementing Identity and Account Management Controls

- › Identity and Account Types
- › Account Policies
- › Authorization Solutions
- › Importance of Personnel Policies
- › Q&A with Knowledge Checks

Lesson 03 - Implementation

Implementing Secure Network Designs

- › Secure Network Designs
- › Secure Switching and Routing
- › Secure Wireless Infrastructure
- › Load Balancers
- › Q&A with Knowledge Checks

Implementing Network Security Appliances

- › Firewalls and Proxy Servers
- › Network Security Monitoring
- › Use of SIEM
- › Q&A with Knowledge Checks

Implementing Secure Network Protocols

- › Secure Network Operations Protocols
- › Secure Application Protocols
- › Secure Remote Access Protocols
- › Q&A with Knowledge Checks

Implementing Host Security Solutions

- › Secure Firmware
- › Endpoint Security
- › Embedded System Security Implications
- › Q&A with Knowledge Checks

Implementing Secure Mobile Solutions

- › Mobile Device Management
- › Secure Mobile Device Connections
- › Q&A with Knowledge Checks

Lesson 04 - Operations and Incident Response

Secure Application Concepts

- › Analyze Indicators of Application Attacks
- › Analyze Indicators of Web Application Attacks
- › Secure Coding Practices
- › Secure Script Environments
- › Deployment and Automation Concepts
- › Q&A with Knowledge Checks

Implementing Secure Cloud Solutions

- › Secure Cloud and Virtualization Services
- › Apply Cloud Security Solutions
- › Infrastructure as Code Concepts
- › Q&A with Knowledge Checks

Explaining Data Privacy and Protection Concepts

- › Privacy and Data Sensitivity Concepts
- › Privacy and Data Protection Controls
- › Q&A with Knowledge Checks

Performing Incident Response

- › Incident Response Procedures
- › Utilize Appropriate Data Sources for Incident Response
- › Apply Mitigation Controls
- › Q&A with Knowledge Checks

Explaining Digital Forensics

- › Key Aspects of Digital Forensics Documentation
- › Key Aspects of Digital Forensics Evidence Acquisition
- › Q&A with Knowledge Checks

Lesson 05 - Governance, Risk, and Compliance

Summarizing Risk Management Concepts

- > Risk Management Processes and Concepts
- > Business Impact Analysis Concepts
- > Q&A with Knowledge Checks

Implementing Cybersecurity Resilience

- > Redundancy Strategies
- > Backup Strategies
- > Cybersecurity Resilience Strategies
- > Q&A with Knowledge Checks

Explaining Physical Security

- > Importance of Physical Site Security Controls
- > Importance of Physical Host Security Controls
- > Q&A with Knowledge Checks