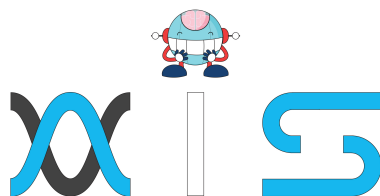




# CompTIA Security+ Certification

simplilearn



 **SPARTAN**  
Allied Services  
*Deliver Results - Create Value*



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## Program Overview:

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CompTIA Security+ 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:

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- > 18 hours of Self Learning Content
- > 32 hours of instructor-led learning
- > Covers 6 domains required to become an IT security professional
- > Industry-recognized course completion certificate
- > Hands-on based learning

## Delivery Mode:

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**Blended Learning** - Live Virtual Classroom and Online self-paced learning

## Prerequisites:

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



## Target **Audience:**

The CompTIA Security+ 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:

- > Comprehend Risk identification and mitigation
- > Provide operational, information, application and infrastructure level security
- > Secure the network to maintain availability, integrity, and confidentiality of critical information
- > Operate within a set of rules, policies, and regulations wherever applicable

## Certification Details and **Criteria:**

- > Complete 85% of the Self Learning Content
- > Attend one complete LVC batch



# Course Curriculum:

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## Lesson 01 - Risk Management

- > Introduction
- > The CIA of Security
- > Threat Actors
- > What is Risk
- > Managing Risk
- > Using Guides for Risk Assessment
- > Security Controls
- > Interesting Security Controls
- > Defense in Depth
- > IT Security Governance
- > Security Policies
- > Frameworks
- > Quantitative Risk Calculations
- > Business Impact Analysis
- > Organizing Data
- > Security Training
- > Third-Party Agreements

## Lesson 02 - Cryptography

- > Cryptography Basics
- > Cryptographic Methods
- > Symmetric Cryptosystems
- > Symmetric Block Modes
- > RSA Cryptosystems
- > Diffie-Hellman
- > PGP GPG
- > Hashing
- > HMAC
- > Steganography
- > Certificates and Trust
- > Public Key Infrastructure
- > Cryptographic Attacks





## Lesson 03 - Identity and Access Management

- > Identification
- > Authorization Concepts
- > Access Control List
- > Password Security
- > Linux File Permissions
- > Windows File Permissions
- > User Account Management
- > AAA
- > Authentication Methods
- > Single Sign-On

## Lesson 04 - Tools of the Trade

- > OS Utilities
- > OS Utility ipconfig
- > Network Scanners
- > Protocol Analyzers
- > SNMP
- > Logs

## Lesson 05 - Securing Individual Systems

- > Denial of Service
- > Host Threats
- > Man in the Middle
- > System Resiliency
- > RAID
- > NAS and SAN
- > Physical Hardening
- > RFI, EMI, and ESD
- > Host Hardening
- > Data and System Security
- > Disk Encryption
- > Hardware Firmware Security
- > Secure OS Types
- > Securing Peripherals
- > Malware
- > Analyzing Output
- > IDS and IPS
- > Automation Strategies
- > Data Destruction



## Lesson 06 - The Basic LAN

- > LAN Review
- > Network Topologies Review
- > Network Zone Review
- > Network Access Controls
- > The Network Firewall
- > Proxy Servers
- > Honeypots
- > Virtual Private Networks
- > IPSec
- > NIDS NIPS
- > SIEM

## Lesson 07 - Beyond the Basic LAN

- > Wireless Review
- > Living in Open Networks
- > Vulnerabilities with Wireless Access Points
- > Cracking WEP
- > Cracking WPA
- > Cracking WPS
- > Wireless Hardening
- > Wireless Access Points
- > Virtualization Basics
- > Virtual Security
- > Containers
- > IaaS
- > PaaS
- > SaaS
- > Deployment Models
- > Static Hosts
- > Mobile Connectivity
- > Deploying Mobile Devices
- > Mobile Enforcement
- > Mobile Device Management
- > Physical Controls
- > HVAC
- > Fire Suppression



## Lesson 08 - Secure Protocols

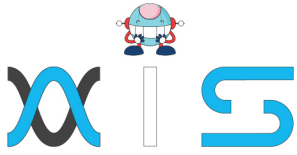
- > Secure Applications and Protocols
- > Network Models
- > Know Your Protocols TCP IP
- > Know Your Protocols Applications
- > Transport Layer Security
- > Internet Service Hardening
- > Protecting Your Servers
- > Secure Code Development
- > Secure Deployment Concepts
- > Code Quality and Testing

## Lesson 09 - Testing Your Infrastructure

- > Vulnerability Scanning Tools
- > Vulnerability Scanning Assessment
- > Social Engineering Principles
- > Social Engineering Attacks
- > Attacking Web Sites
- > Attacking Applications
- > Exploiting a Target
- > Vulnerability Impact

## Lesson 10 - Dealing with Incidents

- > Incident Response
- > Digital Forensics
- > Contingency Planning
- > Backups



## AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

### Learning Partners



#### SAS Management, Inc.

Premiere training and consulting services company, SAS Management, Inc. has been in the industry for a decade. SAS Management, inc. focuses on creating value in every learning and consulting experience by providing the best possible output – whether in a virtual classroom setup, e-learning, or face-to-face. SAS Management, Inc. is the leading training and certification provider for ITIL, Project Management Professional, ISO certifications, PRINCE2, SDI Service Desk Analyst and Manager, Agile, and a host of many programs and courses.



#### Simplilearn

Tagged as the “World's #1 Online Bootcamp”, Simplilearn provides online education and in-house training for professional certification courses. Founded in 2010, Simplilearn offers more than 100 programs, helping professionals reach their learning potentials needed to work in the digital economy.

### Technology Partner



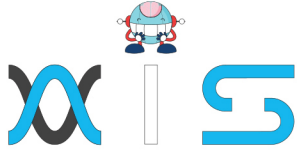
#### Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

### Partners & Affiliates







*The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.*

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