

CompTIA Security+ (SY0-701) Exam Prep 2026

CompTIA Security+ SY0-701 2026. Threat analysis, cryptography, and network defense.

IT Certifications Instructor: Brian Taylor • 5 sections • 45 lessons • 15.25h total

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About this course

Preparing for the CompTIA Security+ certification can feel overwhelming with so much ground to cover. This course cuts through the noise, focusing on the practical skills and knowledge areas you will face on the SY0-701 exam and in your first security role.

You will get a step-by-step guide through core security concepts, from threat analysis to cryptography and network defense. We use real case studies, problem-solving sessions, and downloadable checklists. This is your roadmap to passing the exam and building a foundation for your career.

Course curriculum

Foundations and Preparation

- **How the Security+ Exam Works in 2026 (12m)**
We'll break down the exam structure, question types, and scoring so you know exactly what to expect on test day.
- **Setting Up Your Study Environment (8m)**
Learn how to build a practical study plan and organize your resources for efficient learning from day one.
- **Core Security Principles: CIA Triad (18m)**
Get a real-world understanding of Confidentiality, Integrity, and Availability and how they apply to every security decision.
- **Understanding Governance and Compliance (15m)**
We'll show you how policies, standards, and laws like GDPR actually impact day-to-day IT operations.
- **Risk Management Fundamentals (22m)**
A step-by-step guide to identifying, assessing, and treating risk using common frameworks you'll see on the exam.
- **Data Privacy Concepts Explained (10m)**
Learn the difference between PII, PHI, and other data types, and why protecting them is a core security function.
- **Building a Security Mindset (9m)**
A practical look at the thinking patterns and problem-solving skills that separate successful security professionals.

Threats, Attacks, and Vulnerabilities

- **Identifying Social Engineering Attacks (25m)**
A deep dive into phishing, vishing, and other human-based attacks with real case study analysis of recent breaches.
- **How Malware Works: From Viruses to Ransomware (28m)**
We'll analyze different types of malware, their delivery methods, and the specific damage they cause to organizations.
- **Network Attack Strategies: Reconnaissance to Exploitation (32m)**
Walk through the attacker's lifecycle step-by-step, learning how to spot and defend against each phase.
- **Wireless and Mobile Device Attacks (18m)**
Understand the unique vulnerabilities of Wi-Fi, Bluetooth, and mobile devices with practical defense strategies.
- **Password Attacks and Credential Stuffing (14m)**
A problem-solving session on how attackers crack passwords and the multi-layered defense you need to implement.

- **Application and Web Vulnerabilities (26m)**
Learn to spot common flaws like SQL injection and XSS with a downloadable vulnerability checklist for quick reference.
- **Cloud and Virtualization Threats (20m)**
We'll explore the shared responsibility model and the specific security challenges in cloud environments like AWS and Azure.
- **Analyzing Attack Indicators with SIEM (23m)**
Get hands-on with the basics of using Security Information and Event Management tools to spot malicious activity.
- **Understanding Advanced Persistent Threats (19m)**
A real-world case study on how sophisticated, long-term attacks operate and how to build a defense-in-depth strategy.

Security Architecture and Design

- **Designing Secure Network Topologies (24m)**
Learn how to implement secure network designs, including DMZs, segmentation, and proper firewall placement.
- **Secure Systems and Host Baseline Configuration (21m)**
A step-by-step guide to hardening operating systems and applications to reduce your attack surface.
- **Cryptography: Symmetric vs. Asymmetric (29m)**
Demystifying encryption, hashing, and digital signatures with practical examples of how they're used to protect data.
- **Implementing Public Key Infrastructure (PKI) (27m)**
We'll show you how certificates, CAs, and keys work together to secure communications and prove identity.
- **Authentication and Access Control Models (22m)**
A deep dive into RBAC, MAC, and DAC, with a downloadable template for mapping permissions to job roles.
- **Secure Cloud and Hybrid Architecture (19m)**
Explore secure design patterns for IaaS, PaaS, and SaaS, focusing on container security and API protection.
- **Applying the Zero Trust Security Model (16m)**
A practical problem-solving session on how to implement 'never trust, always verify' in a real-world network.

Operations and Incident Response

- **The Incident Response Process: Step-by-Step (25m)**
Learn the six key phases of IR, from preparation to lessons learned, with a downloadable IR plan template.
- **Digital Forensics Basics for Security Pros (20m)**
We'll cover the fundamentals of evidence collection, chain of custody, and forensic imaging techniques.

- **Disaster Recovery and Business Continuity Planning (31m)**
A real case study analysis of how companies recover from major incidents and how to calculate RTO and RPO.
- **Data Backup and Restoration Strategies (15m)**
Learn the 3-2-1 backup rule and how to test your restoration process to ensure your data is truly safe.
- **Configuring and Managing Firewalls (26m)**
A hands-on guide to setting up firewall rules, understanding stateful vs. stateless inspection, and logging.
- **Intrusion Detection and Prevention Systems (22m)**
We'll compare IDS and IPS, and show you how to tune them to reduce false positives and catch real threats.
- **Vulnerability Scanning and Penetration Testing (28m)**
Understand the difference between scanning for known flaws and ethical hacking, with a sample test plan.
- **Patch Management and Secure Configuration (17m)**
A practical look at prioritizing patches and using configuration baselines to maintain a secure environment.
- **User and Administrator Account Management (19m)**
Learn best practices for creating, managing, and de-provisioning user accounts to prevent privilege creep.
- **Secure Protocols and Services: SSH, TLS, and More (23m)**
We'll break down which protocols to use (and which to disable) to protect data in transit across your network.

Implementation and Next Steps

- **Implementing Endpoint Security Solutions (24m)**
A step-by-step guide to deploying and managing antivirus, anti-malware, and EDR solutions on user devices.
- **Securing Mobile and IoT Devices with MDM (18m)**
Learn how Mobile Device Management policies can enforce encryption, passcodes, and app control.
- **Deploying Secure Wireless Networks (21m)**
We'll show you how to configure WPA3, set up a secure guest network, and implement rogue AP detection.
- **Implementing Secure Remote Access with VPNs (22m)**
A practical look at VPN protocols, split tunneling, and ensuring secure connections for remote workers.
- **Securing Email and Collaboration Tools (16m)**
Learn to implement SPF, DKIM, and DMARC to prevent spoofing and protect your organization's communication.
- **Identity and Access Management (IAM) in Practice (29m)**
A deep dive into SSO, MFA, and federated identities with a real-world implementation checklist.
- **Automation and Scripting for Security Tasks (15m)**
A problem-solving session on using simple scripts to automate log reviews and security checks.

- **Hands-On Lab: Simulating a Security Audit (35m)**
We'll walk through a simulated audit, from gathering evidence to identifying gaps and writing a report.
- **Creating Your CompTIA Security+ Study Plan (12m)**
A downloadable template and guide to build your final study schedule, focusing on your weak areas.
- **Final Exam Review: Key Concepts and Acronyms (25m)**
We'll review the most critical concepts and exam acronyms to ensure you're ready for test day.
- **Career Paths After Security+ (10m)**
Explore common job roles like SOC Analyst and Penetration Tester, and what to learn next to advance.
- **Test Day Strategy and Tips (8m)**
Final advice on managing your time, handling tricky questions, and staying calm to perform your best.

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