

**Days:** 5

**Prerequisites:** You will benefit most from this course if you intend to take a CompTIA Security+ SY0-701 exam. Knowledge equivalent to the CompTIA A+ and Network+ certifications is helpful but not necessary.

**Audience:** This course assumes that you have basic knowledge of using and configuring individual workstations and simple networks.

**Description: CompTIA Security+ Certification SY0-701** provides the basic knowledge needed to plan, implement, and maintain information security in a vendor-neutral format; this includes risk management, host and network security, authentication and access control systems, cryptography, and organizational security. This course maps to the CompTIA Security+ certification exam. Objective coverage is marked throughout the course.

## OUTLINE:

### CHAPTER 1: SECURITY FUNDAMENTALS

Module A: Security concepts  
Module B: Understanding threats  
Module C: Enterprise security strategy

### CHAPTER 2: RISK MANAGEMENT

Module A: Risk management programs  
Module B: Security audits  
Module C: Conducting security assessments

### CHAPTER 3: ORGANIZATIONAL SECURITY

Module A: Social engineering  
Module B: Security policies  
Module C: User roles and training

### CHAPTER 4: CRYPTOGRAPHY

Module A: Cryptography concepts  
Module B: Public key infrastructure

### CHAPTER 5: NETWORK CONNECTIVITY

Module A: Network attacks  
Module B: Packet flow

### CHAPTER 6: SECURE NETWORK CONFIGURATION

Module A: Network security components  
Module B: Secure network protocols  
Module C: Hardening networks

### CHAPTER 7: AUTHENTICATION

Module A: Authentication factors  
Module B: Authentication protocols

### CHAPTER 8: ACCESS CONTROL

Module A: Access control principles  
Module B: Account management

### CHAPTER 9: ENTERPRISE ARCHITECTURE

Module A: System vulnerabilities  
Module B: System architecture

### CHAPTER 10: SECURE ASSETS

Module A: Physical security and safety  
Module B: Securing data

### CHAPTER 11: SECURING SPECIALIZED SYSTEMS

Module A: Securing hosts  
Module B: Mobile security

### CHAPTER 12: SECURE APPLICATIONS

Module A: Application attacks  
Module B: Securing applications

### CHAPTER 13: DISASTER PLANNING AND RECOVERY

Module A: Secure operations  
Module B: Resilience and recovery

### CHAPTER 14: THREAT DETECTION AND RESPONSE

Module A: Security monitoring  
Module B: Incident response procedures