

CompTIA Security+ Certification



Course Outline

Module 1: Systems Security

- Overview of Systems Security Threats
- Security risks pertaining to system hardware and peripherals
- Implementing OS hardening practices and procedures to achieve workstation and server security
- Procedures to establish Application Security
- Implementing security applications
- Virtualization Technology: purpose and application

Module 2: Network Infrastructure

- Ports & Protocols: Threats and Mitigation Techniques
- Network design elements and components
- Network Security Tools
- Using Network Security Tools
- Vulnerabilities and Mitigations of Network Devices
- Vulnerabilities and Mitigations of Transmission Media
- Vulnerabilities and Mitigations of wireless Networking

Module 3: Access Control

- Industry Best Practices for access control methods
- Common Access Control Models
- Organizing Users and Computers: Security Groups, Rights & Privileges.
- Security controls to file and print resources
- Logical Access Control Methods: Defining and Implementing
- Authentication models and components
- Deploying Authentication Models and components
- Difference between Identification and Authentication (Identity Proofing)
- Physical Access Security Methods

Module 4: Assessments & Audits

- Conducting Risk Assessments and implement Risk Mitigation
- Vulnerability Assessments through common tools
- Penetration Testing versus Vulnerability Scanning

- Using Monitoring Tools to detect security-related anomalies
- Monitoring Methodologies
- Logging procedures and results evaluation
- Periodic Audits of system security settings

Module 5: Cryptography

- Cryptography Concepts
- Hashing Concepts and Algorithms
- Encryption Concepts and Algorithms
- Protocols: Definition and Implementation
- Public Key Cryptography
- Implementing PKI and Certificate Management

Module 6: Organizational Security

- Redundancy Planning and its components
- Implementing Disaster Recovery Procedures
- Incident Response Procedures: Types and Implementation
- Applicable legislation and organizational policies
- Environmental Controls
- Social Engineering: Concept of and how to reduce the risks