

CompTIA Security+

Course Outline

1. General Security Concepts

- Compare and contrast various types of security controls
- Summarize fundamental security concepts
- Explain the importance of change management processes and the impact to security
- Explain the importance of using appropriate cryptographic solutions

2. Threats, Vulnerabilities, and Mitigations

- Compare and contrast common threat actors and motivations
- Explain common threat vectors and attack surfaces
- Explain various types of vulnerabilities
- Given a scenario, analyze indicators of malicious activity
- Explain the purpose of mitigation techniques used to secure the enterprise

3. Security Architecture

- Compare and contrast security implications of different architecture models
- Given a scenario, apply security principles to secure enterprise infrastructure
- Compare and contrast concepts and strategies to protect data
- Explain the importance of resilience and recovery in security architecture

4. Security Operations

- Given a scenario, apply common security techniques to computing resources
- Explain the security implications of proper hardware, software, and data asset management
- Explain various activities associated with vulnerability management
- Explain security alerting and monitoring concepts and tools
- Given a scenario, modify enterprise capabilities to enhance security
- Given a scenario, implement and maintain identity and access management
- Explain the importance of automation and orchestration related to secure operations
- Explain appropriate incident response activities
- Given a scenario, use data sources to support an investigation

5. Security Program Management and Oversight

- Summarize elements of effective security governance
- Explain elements of the risk management process
- Explain the processes associated with third-party risk assessment and management
- Summarize elements of effective security compliance
- Explain types and purposes of audits and assessments
- Given a scenario, implement security awareness practices