

## TABLE OF CONTENTS

<b>Lesson 1: Comparing Security Roles and Security Controls</b> Topic 1A: Compare and Contrast Information Security Roles Topic 1B: Compare and Contrast Security Control and Framework Types Topic 1C: Compare and Contrast Social Engineering Attack Types Topic 1D: Determine Malware Types	<b>Lesson 2: Explaining Threat Actors and Threat Intelligence</b> Topic 2A: Explain Threat Actor Types and Attack Vectors Topic 2B: Explain Threat Intelligence Sources	<b>Lesson 3: Performing Security Assessments</b> Topic 3A: Assess Organizational Security with Network Reconnaissance Tools Topic 3B: Explain Security Concerns with General Vulnerability Types Topic 3C: Summarize Vulnerability Scanning Techniques Topic 3D: Explain Penetration Testing Concepts
<b>Lesson 4: Identifying Social Engineering and Malware</b> Topic 4A: Compare and Contrast Social Engineering Techniques Topic 4B: Analyze Indicators of Malware-Based Attacks	<b>Lesson 5: Summarizing Basic Cryptographic Concepts</b> Topic 5A: Compare and Contrast Cryptographic Ciphers Topic 5B: Summarize Cryptographic Modes of Operation Topic 5C: Summarize Cryptographic Use Cases and Weaknesses Topic 5D: Summarize Other Cryptographic Technologies	<b>Lesson 6: Implementing Public Key Infrastructure</b> Topic 6A: Implement Certificates and Certificate Authorities Topic 6B: Implement PKI Management
<b>Lesson 7: Implementing Authentication Controls</b> Topic 7A: Summarize Authentication Design Concepts Topic 7B: Implement Knowledge-Based Authentication Topic 7C: Implement Authentication Technologies Topic 7D: Summarize Biometrics Authentication Concepts	<b>Lesson 8: Implementing Identity and Account Management Controls</b> Topic 8A: Implement Identity and Account Types Topic 8B: Implement Account Policies Topic 8C: Implement Authorization Solutions Topic 8D: Explain the Importance of Personnel Policies	<b>Lesson 9: Implementing Secure Network Designs</b> Topic 9A: Implement Secure Network Designs Topic 9B: Implement Secure Switching and Routing Topic 9C: Implement Secure Wireless Infrastructure Topic 9D: Implement Load Balancer
<b>Lesson 10: Implementing Network Security Appliances</b> Topic 10A: Implement Firewalls and Proxy Servers Topic 10B: Implement Network Security Monitoring Topic 10C: Summarize the Use of SIEM	<b>Lesson 11: Implementing Secure Network Protocols</b> Topic 11A: Implement Secure Network Operations Protocols Topic 11B: Implement Secure Application Protocols Topic 11C: Implement Secure Remote Access Protocols	<b>Lesson 12: Implementing Host Security Solutions</b> Topic 12A: Implement Secure Firmware Topic 12B: Implement Endpoint Security
<b>Lesson 13: Implementing Secure Mobile Solutions</b> Topic 13A: Implement Mobile Device Management Topic 13B: Implement Secure Mobile Device Connections	<b>Lesson 14: Summarizing Secure Application Concepts</b> Topic 14A: Analyze Indicators of Application Attacks Topic 14B: Analyze Indicators of Web Application Attacks Topic 14C: Summarize Secure Coding Practices Topic 14D: Implement Secure Script Environments Topic 14E: Summarize Deployment and Automation Concepts	<b>Lesson 15: Implementing Secure Cloud Solutions</b> Topic 15A: Summarize Secure Cloud and Virtualization Services Topic 15B: Apply Cloud Security Solutions Topic 15C: Summarize Infrastructure as Code Concepts
<b>Lesson 16: Explaining Data Privacy and Protection Concepts</b> Topic 16A: Explain Privacy and Data Sensitivity Concepts Topic 16B: Explain Privacy and Data Protection Controls	<b>Lesson 17: Performing Incident Response</b> Topic 17A: Summarize Incident Response Procedures Topic 17B: Utilize Appropriate Data Sources for Incident Response Topic 17C: Apply Mitigation Controls	<b>Lesson 18: Explaining Digital Forensics</b> Topic 18A: Explain Key Aspects of Digital Forensics Documentation Topic 18B: Explain Key Aspects of Digital Forensics Evidence Acquisition
<b>Lesson 19: Summarizing Risk Management Concepts</b> Topic 19A: Explain Risk Management Processes and Concepts Topic 19B: Explain Business Impact Analysis Concepts	<b>Lesson 20: Implementing Cybersecurity Resilience</b> Topic 20A: Implement Redundancy Strategies Topic 20B: Implement Backup Strategies Topic 20C: Implement Cybersecurity Resiliency Strategies	<b>Lesson 21: Explaining Physical Security</b> Topic 21A: Explain the Importance of Physical Site Security Controls Topic 21B: Explain the Importance of Physical Host Security Controls