

Course Outline	CertMaster Learn	Student Guide eBook	CertMaster Labs
Overview	Each of the bulleted activities below is a separate study task within the CertMaster Learn learning plan. Students are encouraged to complete a certain number of tasks in each login session based on their desired course completion date.	Review Activities are embedded within the eBook. Videos and Practice Questions are found in the CompTIA Learning Center, the platform through which the eBook is delivered.	Labs are available at the course level or integrated as study tasks within CertMaster Learn.
Lesson 1: Comparing Security Roles and Controls			
Topic 1A: Compare and Contrast Information Security Roles	<ul style="list-style-type: none"> • Video: Information Security Roles • Review Activity: Information Security Roles 	<ul style="list-style-type: none"> • Video: Information Security Roles • Review Activity: Information Security Roles 	
Topic 1B: Compare and Contrast Security Control and Framework Types <i>Exam objectives covered: 5.1 Compare and contrast various types of controls 5.2 Explain the importance of applicable regulations, standards, or frameworks that impact organizational security posture</i>	<ul style="list-style-type: none"> • Video: Security Control Types • Review Activity: Security Control and Framework Types • PBQ: Compare and Contrast Security Control and Framework Types 	<ul style="list-style-type: none"> • Video: Security Control Types • Review Activity: Security Control and Framework Types 	
	<ul style="list-style-type: none"> • Lesson 1: Practice Questions 	<ul style="list-style-type: none"> • Lesson 1: Practice Questions 	
Lesson 2: Explaining Threat Actors and Threat Intelligence			
Topic 2A: Explain Threat Actor Types and Attack Vectors <i>Exam objectives covered: 1.5 Explain different threat actors, vectors, and intelligence sources</i>	<ul style="list-style-type: none"> • Review Activity: Threat Actor Types and Attack Vectors 	<ul style="list-style-type: none"> • Review Activity: Threat Actor Types and Attack Vectors 	
Topic 2B: Explain Threat Intelligence Sources <i>Exam objectives covered: 1.5 Explain different threat actors, vectors, and intelligence sources</i>	<ul style="list-style-type: none"> • Video: Investigating Threat Data and Intelligence Sources • Review Activity: Threat Intelligence Sources 	<ul style="list-style-type: none"> • Video: Investigating Threat Data and Intelligence Sources • Review Activity: Threat Intelligence Sources 	
	<ul style="list-style-type: none"> • Lesson 2: Practice Questions 	<ul style="list-style-type: none"> • Lesson 2: Practice Questions 	
Lesson 3: Performing Security Assessments			

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<p>Topic 3A: Assess Organizational Security with Network Reconnaissance Tools</p> <p><i>Exam objectives covered:</i> 4.1 Given a scenario, use the appropriate tool to assess organizational security</p>	<ul style="list-style-type: none"> • Video: The Kill Chain • Video: Network Topology Discovery Using Software Tools • Video: Host Fingerprinting Using Software Tools • Video: Analyzing Packets • Review Activity: Organizational Security with Network Reconnaissance Tools • PBQ: Assess Organizational Security with Network Reconnaissance Tools 	<ul style="list-style-type: none"> • Video: The Kill Chain • Video: Network Topology Discovery Using Software Tools • Video: Host Fingerprinting Using Software Tools • Video: Analyzing Packets • Review Activity: Organizational Security with Network Reconnaissance Tools 	<ul style="list-style-type: none"> • Assisted Lab: Exploring the Lab Environment • Assisted Lab: Scanning and Identifying Network Nodes • Assisted Lab: Intercepting and Interpreting Network Traffic with Packet Sniffing Tools
<p>Topic 3B: Explain Security Concerns with General Vulnerability Types</p> <p><i>Exam objectives covered:</i> 1.6 Explain the security concerns associated with various types of vulnerabilities</p>	<ul style="list-style-type: none"> • Review Activity: Security Concerns with General Vulnerability Types 	<ul style="list-style-type: none"> • Review Activity: Security Concerns with General Vulnerability Types 	
<p>Topic 3C: Summarize Vulnerability Scanning Techniques</p> <p><i>Exam objectives covered:</i> 1.7 Summarize the techniques used in security assessments</p>	<ul style="list-style-type: none"> • Video: Configuring Vulnerability Scanners • Review Activity: Vulnerability Scanning Techniques 	<ul style="list-style-type: none"> • Video: Configuring Vulnerability Scanners • Review Activity: Vulnerability Scanning Techniques 	<ul style="list-style-type: none"> • Assisted Lab: Analyzing the Results of a Credentialed Vulnerability Scan
<p>Topic 3D: Explain Penetration Testing Concepts</p> <p><i>Exam objectives covered:</i> 1.8 Explain the techniques used in penetration testing</p>	<ul style="list-style-type: none"> • Video: Implementing Penetration Testing • Review Activity: Penetration Testing Concepts 	<ul style="list-style-type: none"> • Video: Implementing Penetration Testing • Review Activity: Penetration Testing Concepts 	
	<ul style="list-style-type: none"> • Lesson 3: Practice Questions 	<ul style="list-style-type: none"> • Lesson 3: Practice Questions 	
Lesson 4: Identifying Social Engineering and Malware			
<p>Topic 4A: Compare and Contrast Social Engineering Techniques</p> <p><i>Exam objectives covered:</i> 1.1 Compare and contrast different types of social engineering techniques</p>	<ul style="list-style-type: none"> • Video: Social Engineering Attack Troubleshooting • Review Activity: Social Engineering Techniques • PBQ: Compare and Contrast Social Engineering Techniques 	<ul style="list-style-type: none"> • Video: Social Engineering Attack Troubleshooting • Review Activity: Social Engineering Techniques 	
<p>Topic 4B: Analyze Indicators of Malware-Based Attacks</p>	<ul style="list-style-type: none"> • Video: Determining Malware Types 	<ul style="list-style-type: none"> • Video: Determining Malware Types 	<ul style="list-style-type: none"> • Assisted Lab: Installing, Using, and

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<p><i>Exam objectives covered:</i> 1.2 Given a scenario, analyze potential indicators to determine the type of attack 4.1 Given a scenario, use the appropriate tool to assess organizational security (Cuckoo only)</p>	<ul style="list-style-type: none"> Review Activity: Indicators of Malware-Based Attacks PBQ: Analyze Indicators of Malware-Based Attacks 	<ul style="list-style-type: none"> Review Activity: Indicators of Malware-Based Attacks 	Blocking a Malware-based Backdoor
	<ul style="list-style-type: none"> Lesson 4: Practice Questions 	<ul style="list-style-type: none"> Lesson 4: Practice Questions 	<ul style="list-style-type: none"> APPLIED LAB: Performing Network Reconnaissance and Vulnerability Scanning
Lesson 5: Summarizing Basic Cryptographic Concepts			
<p>Topic 5A: Compare and Contrast Cryptographic Ciphers</p> <p><i>Exam objectives covered:</i> 2.1 Explain the importance of security concepts in an enterprise environment (hashing only) 2.8 Summarize the basics of cryptographic concepts</p>	<ul style="list-style-type: none"> Video: Hashing Algorithms Video: Identifying Symmetric Cryptographic Algorithms Video: Identifying Asymmetric Cryptographic Algorithms Review Activity: Cryptographic Ciphers 	<ul style="list-style-type: none"> Video: Hashing Algorithms Video: Identifying Symmetric Cryptographic Algorithms Video: Identifying Asymmetric Cryptographic Algorithms Review Activity: Cryptographic Ciphers 	
<p>Topic 5B: Summarize Cryptographic Modes of Operation</p> <p><i>Exam objectives covered:</i> 2.1 Explain the importance of security concepts in an enterprise environment (hashing only) 2.8 Summarize the basics of cryptographic concepts</p>	<ul style="list-style-type: none"> Review Activity: Cryptographic Modes of Operation PBQ: Summarize Cryptographic Modes of Operation 	<ul style="list-style-type: none"> Review Activity: Cryptographic Modes of Operation 	
<p>Topic 5C: Summarize Cryptographic Use Cases and Weaknesses</p> <p><i>Exam objectives covered:</i> 1.2 Given a scenario, analyze potential indicators to determine the type of attack 2.8 Summarize the basics of cryptographic concepts</p>	<ul style="list-style-type: none"> Review Activity: Cryptographic Use Cases and Weaknesses 	<ul style="list-style-type: none"> Review Activity: Cryptographic Use Cases and Weaknesses 	

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<p>Topic 5D: Summarize Other Cryptographic Technologies</p> <p><i>Exam objectives covered:</i> 2.8 Summarize the basics of cryptographic concepts</p>	<ul style="list-style-type: none"> Review Activity: Other Cryptographic Technologies 	<ul style="list-style-type: none"> Review Activity: Other Cryptographic Technologies 	
	<ul style="list-style-type: none"> Lesson 5: Practice Questions 	<ul style="list-style-type: none"> Lesson 5: Practice Questions 	
Lesson 6: Implementing Public Key Infrastructure			
<p>Topic 6A: Implement Certificates and Certificate Authorities</p> <p><i>Exam objectives covered:</i> 3.9 Given a scenario, implement public key infrastructure</p>	<ul style="list-style-type: none"> Review Activity: Certificates and Certificate Authorities PBQ: Implement Certificates and Certificate Authorities 	<ul style="list-style-type: none"> Review Activity: Certificates and Certificate Authorities 	<ul style="list-style-type: none"> Assisted Lab: Managing the Lifecycle of a Certificate
<p>Topic 6B: Implement PKI Management</p> <p><i>Exam objectives covered:</i> 3.9 Given a scenario, implement public key infrastructure 4.1 Given a scenario, use the appropriate tool to assess organizational security (OpenSSL only)</p>	<ul style="list-style-type: none"> Video: Backing Up and Restoring Certificates and Private Keys Video: Configuring a CA Hierarchy Review Activity: PKI Management 	<ul style="list-style-type: none"> Video: Backing Up and Restoring Certificates and Private Keys Video: Configuring a CA Hierarchy Review Activity: PKI Management 	<ul style="list-style-type: none"> Assisted Lab: Managing Certificates with OpenSSL
	<ul style="list-style-type: none"> Lesson 6: Practice Questions 	<ul style="list-style-type: none"> Lesson 6: Practice Questions 	
Lesson 7: Implementing Authentication Controls			
<p>Topic 7A: Summarize Authentication Design Concepts</p> <p><i>Exam objectives covered:</i> 2.4 Summarize authentication and authorization design concepts</p>	<ul style="list-style-type: none"> Video: Identity and Authentication Concepts Review Activity: Authentication Design Concepts 	<ul style="list-style-type: none"> Video: Identity and Authentication Concepts Review Activity: Authentication Design Concepts 	
<p>Topic 7B: Implement Knowledge-Based Authentication</p> <p><i>Exam objectives covered:</i> 1.2 Given a scenario, analyze potential indicators to determine the type of attack</p>	<ul style="list-style-type: none"> Video: Password Attacks Review Activity: Knowledge-Based Authentication PBQ: Implement Knowledge-Based Authentication 	<ul style="list-style-type: none"> Video: Password Attacks Review Activity: Knowledge-Based Authentication 	<ul style="list-style-type: none"> Assisted Lab: Auditing Passwords with a Password Cracking Utility

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<p>3.8 Given a scenario, implement authentication and authorization solutions</p> <p>4.1 Given a scenario, use the appropriate tool to assess organizational security (password crackers only)</p>			
<p>Topic 7C: Implement Authentication Technologies</p> <p><i>Exam objectives covered:</i></p> <p>2.4 Summarize authentication and authorization design concepts</p> <p>3.3 Given a scenario, implement secure network designs (HSM only)</p> <p>3.8 Given a scenario, implement authentication and authorization solutions</p>	<ul style="list-style-type: none"> • Video: Configuring EAP and AAA Authentication Technologies • Video: Implementing IAM • Review Activity: Authentication Technologies 	<ul style="list-style-type: none"> • Video: Configuring EAP and AAA Authentication Technologies • Video: Implementing IAM • Review Activity: Authentication Technologies 	<ul style="list-style-type: none"> • Assisted Lab: Managing Centralized Authentication
<p>Topic 7D: Summarize Biometrics Authentication Concepts</p> <p><i>Exam objectives covered:</i></p> <p>2.4 Summarize authentication and authorization design concepts</p>	<ul style="list-style-type: none"> • Review Activity: Biometrics Authentication Concepts 	<ul style="list-style-type: none"> • Review Activity: Biometrics Authentication Concepts 	
	<ul style="list-style-type: none"> • Lesson 7: Practice Questions 	<ul style="list-style-type: none"> • Lesson 7: Practice Questions 	
<p>Lesson 8: Implementing Identity and Account Management Controls</p>			
<p>Topic 8A: Implement Identity and Account Types</p> <p><i>Exam objectives covered:</i></p> <p>3.7 Given a scenario, implement identity and account management controls</p> <p>5.3 Explain the importance of policies to organizational security</p>	<ul style="list-style-type: none"> • Review Activity: Identity and Account Types 	<ul style="list-style-type: none"> • Review Activity: Identity and Account Types 	
<p>Topic 8B: Implement Account Policies</p> <p><i>Exam objectives covered:</i></p>	<ul style="list-style-type: none"> • Video: Account Management • Review Activity: Account Policies 	<ul style="list-style-type: none"> • Video: Account Management • Review Activity: Account Policies 	<ul style="list-style-type: none"> • Assisted Lab: Managing Access Controls in Windows Server

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3.7 Given a scenario, implement identity and account management controls	<ul style="list-style-type: none"> PBQ: Implement Account Policies 		<ul style="list-style-type: none"> Assisted Lab: Configuring a System for Auditing Policies
<p>Topic 8C: Implement Authorization Solutions</p> <p><i>Exam objectives covered:</i></p> <p>2.4 Summarize authentication and authorization design concepts</p> <p>3.8 Given a scenario, implement authentication and authorization solutions</p> <p>4.1 Given a scenario, use the appropriate tool to assess organizational security (chmod only)</p>	<ul style="list-style-type: none"> Video: Implementing Access Management Controls” Review Activity: Authorization Solutions 	<ul style="list-style-type: none"> Video: Implementing Access Management Controls” Review Activity: Authorization Solutions 	<ul style="list-style-type: none"> Assisted Lab: Managing Access Controls in Linux
<p>Topic 8D: Explain the Importance of Personnel Policies</p> <p><i>Exam objectives covered:</i></p> <p>5.3 Explain the importance of policies to organizational security</p>	<ul style="list-style-type: none"> Review Activity: Importance of Personnel Policies 	<ul style="list-style-type: none"> Review Activity: Importance of Personnel Policies 	
	<ul style="list-style-type: none"> Lesson 8: Practice Questions Lesson 8 PBQ: Implement Identity, Account Types, and Account Policies 	<ul style="list-style-type: none"> Lesson 8: Practice Questions 	<ul style="list-style-type: none"> APPLIED LAB: Configuring Identity and Access Management Controls
Lesson 9: Implementing Secure Network Designs			
<p>Topic 9A: Implement Secure Network Designs</p> <p><i>Exam objectives covered:</i></p> <p>3.3 Given a scenario, implement secure network designs</p>	<ul style="list-style-type: none"> Video: Secure Network Architecture Concepts Review Activity: Secure Network Designs 	<ul style="list-style-type: none"> Video: Secure Network Architecture Concepts Review Activity: Secure Network Designs 	
<p>Topic 9B: Implement Secure Switching and Routing</p> <p><i>Exam objectives covered:</i></p> <p>1.4 Given a scenario, analyze potential indicators associated with network attacks</p>	<ul style="list-style-type: none"> Video: Implementing Secure Switching Configurations Video: Configuring Network Access Control Review Activity: Secure Switching and Routing PBQ: Implement Secure Switching and Routing 	<ul style="list-style-type: none"> Video: Implementing Secure Switching Configurations Video: Configuring Network Access Control Review Activity: Secure Switching and Routing 	<ul style="list-style-type: none"> Assisted Lab: Implementing a Secure Network Design

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<p>3.1 Given a scenario, implement secure protocols (Routing and switching only)</p> <p>3.3 Given a scenario, implement secure network designs</p>			
<p>Topic 9C: Implement Secure Wireless Infrastructure</p> <p><i>Exam objectives covered:</i></p> <p>1.4 Given a scenario, analyze potential indicators associated with network attacks</p> <p>3.4 Given a scenario, install and configure wireless security settings</p>	<ul style="list-style-type: none"> • Video: Installing Wireless Networks • Video: Configuring Secure Wireless Networks • Review Activity: Secure Wireless Infrastructure • PBQ: Implement Secure Wireless Infrastructure 	<ul style="list-style-type: none"> • Video: Installing Wireless Networks • Video: Configuring Secure Wireless Networks • Review Activity: Secure Wireless Infrastructure 	
<p>Topic 9D: Implement Load Balancers</p> <p><i>Exam objectives covered:</i></p> <p>1.4 Given a scenario, analyze potential indicators associated with network attacks</p> <p>3.3 Given a scenario, implement secure network designs</p>	<ul style="list-style-type: none"> • Video: Load Balancer Configuration • Review Activity: Load Balancers 	<ul style="list-style-type: none"> • Video: Load Balancer Configuration • Review Activity: Load Balancers 	
	<ul style="list-style-type: none"> • Lesson 9: Practice Questions 	<ul style="list-style-type: none"> • Lesson 9: Practice Questions 	
Lesson 10: Implementing Network Security Appliances			
<p>Topic 10A: Implement Firewalls and Proxy Servers</p> <p><i>Exam objectives covered:</i></p> <p>3.3 Given a scenario, implement secure network designs</p>	<ul style="list-style-type: none"> • Video: Installing and Configuring a Firewall • Video: Configuring Firewall Rules • Review Activity: Firewalls and Proxy Servers • PBQ: Implement Firewalls and Proxy Servers 	<ul style="list-style-type: none"> • Video: Installing and Configuring a Firewall • Video: Configuring Firewall Rules • Review Activity: Firewalls and Proxy Servers 	<ul style="list-style-type: none"> • Assisted Lab: Configuring a Firewall
<p>Topic 10B: Implement Network Security Monitoring</p> <p><i>Exam objectives covered:</i></p> <p>3.3 Given a scenario, implement secure network designs</p>	<ul style="list-style-type: none"> • Video: Installing and Configuring an Intrusion Detection System • Review Activity: Network Security Monitoring 	<ul style="list-style-type: none"> • Video: Installing and Configuring an Intrusion Detection System • Review Activity: Network Security Monitoring 	<ul style="list-style-type: none"> • Assisted Lab: Configuring an Intrusion Detection System
<p>Topic 10C: Summarize the Use of SIEM</p>	<ul style="list-style-type: none"> • Video: Configuring Network Security Technologies 	<ul style="list-style-type: none"> • Video: Configuring Network Security Technologies 	

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<p><i>Exam objectives covered:</i></p> <p>1.7 Summarize the techniques used in security assessments</p> <p>3.3 Given a scenario, implement secure network designs</p> <p>4.1 Given a scenario, use the appropriate tool to assess organization security</p>	<ul style="list-style-type: none"> Review Activity: Use of SIEM 	<ul style="list-style-type: none"> Review Activity: Use of SIEM 	
	<ul style="list-style-type: none"> Lesson 10: Practice Questions 	<ul style="list-style-type: none"> Lesson 10: Practice Questions 	
Lesson 11: Implementing Secure Network Protocols			
<p>Topic 11A: Implement Secure Network Operations Protocols</p> <p><i>Exam objectives covered:</i></p> <p>1.4 Given a scenario, analyze potential indicators associated with network attacks</p> <p>3.1 Given a scenario, implement secure protocols</p>	<ul style="list-style-type: none"> Video: Implementing Secure Network Addressing Services Review Activity: Secure Network Operations Protocols 	<ul style="list-style-type: none"> Video: Implementing Secure Network Addressing Services Review Activity: Secure Network Operations Protocols 	
<p>Topic 11B: Implement Secure Application Protocols</p> <p><i>Exam objectives covered:</i></p> <p>2.1 Explain the importance of security concepts in an enterprise environment</p> <p>3.1 Given a scenario, implement secure protocols</p>	<ul style="list-style-type: none"> Video: Secure Web Services Video: Installing and Configuring a Secure Email Service Review Activity: Secure Application Protocols PBQ: Implement Secure Application Protocols 	<ul style="list-style-type: none"> Video: Secure Web Services Video: Installing and Configuring a Secure Email Service Review Activity: Secure Application Protocols 	<ul style="list-style-type: none"> Assisted Lab: Implementing Secure Network Addressing Services
<p>Topic 11C: Implement Secure Remote Access Protocols</p> <p><i>Exam objectives covered:</i></p> <p>3.1 Given a scenario, implement secure protocols</p> <p>3.3 Given a scenario, implement secure network designs</p> <p>4.1 Given a scenario, use the appropriate tool to assess organizational security (SSH only)</p>	<ul style="list-style-type: none"> Video: Implementing a Virtual Private Network Video: Secure Remote Administration Protocols Review Activity: Secure Remote Access Protocols PBQ: Implement Secure Remote Access Protocols 	<ul style="list-style-type: none"> Video: Implementing a Virtual Private Network Video: Secure Remote Administration Protocols Review Activity: Secure Remote Access Protocols 	<ul style="list-style-type: none"> Assisted Lab: Implementing a Virtual Private Network Assisted Lab: Implementing a Secure SSH Server
	<ul style="list-style-type: none"> Lesson 11: Practice Questions 	<ul style="list-style-type: none"> Lesson 11: Practice Questions 	
Lesson 12: Implementing Host Security Solutions			

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<p>Topic 12A: Implement Secure Firmware</p> <p><i>Exam objectives covered:</i></p> <p>1.2 Given a scenario, analyze potential indicators to determine the type of attack</p> <p>3.2 Given a scenario, implement host or application security solutions</p> <p>5.3 Explain the importance of policies to organizational security</p>	<ul style="list-style-type: none"> • Video: Discussing Secure Hardware Systems Design • Review Activity: Secure Firmware 	<ul style="list-style-type: none"> • Video: Discussing Secure Hardware Systems Design • Review Activity: Secure Firmware 	
<p>Topic 12B: Implement Endpoint Security</p> <p><i>Exam objectives covered:</i></p> <p>3.2 Given a scenario, implement host or application security solutions</p>	<ul style="list-style-type: none"> • Video: Securing Hosts • Review Activity: Endpoint Security 	<ul style="list-style-type: none"> • Video: Securing Hosts • Review Activity: Endpoint Security 	<ul style="list-style-type: none"> • Assisted Lab: Implementing Endpoint Protection
<p>Topic 12C: Explain Embedded System Security Implications</p> <p><i>Exam objectives covered:</i></p> <p>2.6 Explain the security implications of embedded and specialized systems</p>	<ul style="list-style-type: none"> • Video: Discussing Secure Embedded System Design • Review Activity: Embedded System Security Implications 	<ul style="list-style-type: none"> • Video: Discussing Secure Embedded System Design • Review Activity: Embedded System Security Implications 	
	<ul style="list-style-type: none"> • Lesson 12: Practice Questions 	<ul style="list-style-type: none"> • Lesson 12: Practice Questions 	<ul style="list-style-type: none"> • APPLIED LAB: Securing the Network Infrastructure
<p>Lesson 13: Implementing Secure Mobile Solutions</p>			
<p>Topic 13A: Implement Mobile Device Management</p> <p><i>Exam objectives covered:</i></p> <p>3.5 Given a scenario, implement secure mobile solutions</p>	<ul style="list-style-type: none"> • Video: Implementing Mobile Device Security • Review Activity: Mobile Device Management • PBQ: Implement Mobile Device Management 	<ul style="list-style-type: none"> • Video: Implementing Mobile Device Security • Review Activity: Mobile Device Management 	
<p>Topic 13B: Implement Secure Mobile Device Connections</p> <p><i>Exam objectives covered:</i></p> <p>1.4 Given a scenario, analyze potential indicators associated with network attacks</p>	<ul style="list-style-type: none"> • Review Activity: Secure Mobile Device Connections 	<ul style="list-style-type: none"> • Review Activity: Secure Mobile Device Connections 	

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3.5 Given a scenario, implement secure mobile solutions			
	<ul style="list-style-type: none"> Lesson 13: Practice Questions 	<ul style="list-style-type: none"> Lesson 13: Practice Questions 	
Lesson 14: Summarizing Secure Application Concepts			
<p>Topic 14A: Analyze Indicators of Application Attacks</p> <p><i>Exam objectives covered:</i> 1.3 Given a scenario, analyze potential indicators associated with application attacks</p>	<ul style="list-style-type: none"> Review Activity: Indicators of Application Attacks 	<ul style="list-style-type: none"> Review Activity: Indicators of Application Attacks 	<ul style="list-style-type: none"> Assisted Lab: Identifying Application Attack Indicators
<p>Topic 14B: Analyze Indicators of Web Application Attacks</p> <p><i>Exam objectives covered:</i> 1.3 Given a scenario, analyze potential indicators associated with application attacks</p>	<ul style="list-style-type: none"> Video: Exploiting Session Vulnerabilities Video: Identifying a Man-in-the-Browser Attack Review Activity: Indicators of Web Application Attacks 	<ul style="list-style-type: none"> Video: Exploiting Session Vulnerabilities Video: Identifying a Man-in-the-Browser Attack Review Activity: Indicators of Web Application Attacks 	<ul style="list-style-type: none"> Assisted Lab: Identifying a Browser Attack
<p>Topic 14C: Summarize Secure Coding Practices</p> <p><i>Exam objectives covered:</i> 2.3 Summarize secure application development, deployment, and automation concepts 3.2 Given a scenario, implement host or application security solutions</p>	<ul style="list-style-type: none"> Video: Incorporating Security in the Software Development Cycle Review Activity: Secure Coding Practices 	<ul style="list-style-type: none"> Video: Incorporating Security in the Software Development Cycle Review Activity: Secure Coding Practices 	
<p>Topic 14D: Implement Secure Script Environments</p> <p><i>Exam objectives covered:</i> 1.4 Given a scenario, analyze potential indicators associated with network attacks 3.2 Given a scenario, implement host or application security solutions 4.1 Given a scenario, use the appropriate tool to assess organizational security</p>	<ul style="list-style-type: none"> Review Activity: Secure Script Environments PBQ: Implement Secure Script Environments 	<ul style="list-style-type: none"> Review Activity: Secure Script Environments PBQ: Implement Secure Script Environments 	<ul style="list-style-type: none"> Assisted Lab: Implementing PowerShell Security Assisted Lab: Identifying Malicious Code

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<p>Topic 14E: Summarize Deployment and Automation Concepts</p> <p><i>Exam objectives covered:</i> 2.3 Summarize secure application development, deployment, and automation concepts</p>	<ul style="list-style-type: none"> Review Activity: Deployment and Automation Concepts 	<ul style="list-style-type: none"> Review Activity: Deployment and Automation Concepts 	
	<ul style="list-style-type: none"> Lesson 14: Practice Questions 	<ul style="list-style-type: none"> Lesson 14: Practice Questions 	<ul style="list-style-type: none"> APPLIED LAB: Identifying Application Attacks
<p>Lesson 15: Implementing Secure Cloud Solutions</p>			
<p>Topic 15A: Summarize Secure Cloud and Virtualization Services</p> <p><i>Exam objectives covered:</i> 2.2 Summarize virtualization and cloud computing concepts</p>	<ul style="list-style-type: none"> Video: Secure Virtualization Infrastructure Review Activity: Secure Cloud and Virtualization Services PBQ: Apply Cloud Security Solutions 	<ul style="list-style-type: none"> Video: Secure Virtualization Infrastructure Review Activity: Secure Cloud and Virtualization Services 	
<p>Topic 15B: Apply Cloud Security Solutions</p> <p><i>Exam objectives covered:</i> 1.2 Given a scenario, analyze potential indicators to determine the type of attack (Cloud-based versus on-premises only) 2.2 Summarize virtualization and cloud computing concepts 3.6 Given a scenario, apply cybersecurity solutions to the cloud</p>	<ul style="list-style-type: none"> Video: Securing Virtualized and Cloud-Based Resources Review Activity: Cloud Security Solutions 	<ul style="list-style-type: none"> Video: Securing Virtualized and Cloud-Based Resources Review Activity: Cloud Security Solutions 	
<p>Topic 15C: Summarize Infrastructure as Code Concepts</p> <p><i>Exam objectives covered:</i> 2.2 Summarize virtualization and cloud computing concepts</p>	<ul style="list-style-type: none"> Review Activity: Infrastructure as Code 	<ul style="list-style-type: none"> Review Activity: Infrastructure as Code 	
	<ul style="list-style-type: none"> Lesson 15: Practice Questions 	<ul style="list-style-type: none"> Lesson 15: Practice Questions 	
<p>Lesson 16: Explaining Data Privacy and Protection Concepts</p>			

Course Outline	CertMaster Learn	Student Guide eBook	CertMaster Labs
<p>Topic 16A: Explain Privacy and Data Sensitivity Concepts</p> <p><i>Exam objectives covered:</i></p> <p>2.1 Explain the importance of security concepts in an enterprise environment</p> <p>5.3 Explain the importance of policies to organizational security</p> <p>5.5 Explain privacy and sensitive data concepts in relation to security</p>	<ul style="list-style-type: none"> • Video: Managing Data Security • Review Activity: Privacy and Data Sensitivity Concepts • PBQ: Explain Privacy and Data Sensitivity Concepts 	<ul style="list-style-type: none"> • Video: Managing Data Security • Review Activity: Privacy and Data Sensitivity Concepts 	
<p>Topic 16B: Explain Privacy and Data Protection Controls</p> <p><i>Exam objectives covered:</i></p> <p>2.1 Explain the importance of security concepts in an enterprise environment</p> <p>3.2 Given a scenario, implement host or application security solutions</p> <p>5.5 Explain privacy and sensitive data concepts in relation to security</p>	<ul style="list-style-type: none"> • Review Activity: Privacy and Data Protection Controls 	<ul style="list-style-type: none"> • Review Activity: Privacy and Data Protection Controls 	
	<ul style="list-style-type: none"> • Lesson 16: Practice Questions 	<ul style="list-style-type: none"> • Lesson 16: Practice Questions 	
<p>Lesson 17: Performing Incident Response</p>			
<p>Topic 17A: Summarize Incident Response Procedures</p> <p><i>Exam objectives covered:</i></p> <p>4.2 Summarize the importance of policies, processes, and procedures for incident response</p>	<ul style="list-style-type: none"> • Video: Responding to Security Incidents • Review Activity: Incident Response Procedures • PBQ: Summarize Incident Response Procedures 	<ul style="list-style-type: none"> • Video: Responding to Security Incidents • Review Activity: Incident Response Procedures 	
<p>Topic 17B: Utilize Appropriate Data Sources for Incident Response</p> <p><i>Exam objectives covered:</i></p> <p>4.3 Given an incident, utilize appropriate data sources to support an investigation</p>	<ul style="list-style-type: none"> • Video: Utilizing Data Sources for Incident Response • Review Activity: Appropriate Data Sources for Incident Response 	<ul style="list-style-type: none"> • Video: Utilizing Data Sources for Incident Response • Review Activity: Appropriate Data Sources for Incident Response 	<ul style="list-style-type: none"> • Assisted Lab: Managing Data Sources for Incident Response

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<p>Topic 17C: Apply Mitigation Controls</p> <p><i>Exam objectives covered:</i> 1.2 Given a scenario, analyze potential indicators to determine the type of attack 4.4 Given an incident, apply mitigation techniques or controls to secure an environment</p>	<ul style="list-style-type: none"> • Video: Applying Mitigation Controls • Review Activity: Mitigation Controls 	<ul style="list-style-type: none"> • Video: Applying Mitigation Controls • Review Activity: Mitigation Controls 	<ul style="list-style-type: none"> • Assisted Lab: Configuring Mitigation Controls
	<ul style="list-style-type: none"> • Lesson 17: Practice Questions 	<ul style="list-style-type: none"> • Lesson 17: Practice Questions 	
<p>Lesson 18: Explaining Digital Forensics</p>			
<p>Topic 18A: Explain Key Aspects of Digital Forensics Documentation</p> <p><i>Exam objectives covered:</i> 4.5 Explain the key aspects of digital forensics</p>	<ul style="list-style-type: none"> • Review Activity: Digital Forensics Documentation 	<ul style="list-style-type: none"> • Review Activity: Digital Forensics Documentation 	
<p>Topic 18B: Explain Key Aspects of Digital Forensics Evidence Acquisition</p> <p><i>Exam objectives covered:</i> 4.1 Given a scenario, use the appropriate tool to assess organizational security 4.5 Explain the key aspects of digital forensics</p>	<ul style="list-style-type: none"> • Video: Investigating Security Incidents • Review Activity: Digital Forensics Evidence Acquisition 	<ul style="list-style-type: none"> • Video: Investigating Security Incidents • Review Activity: Digital Forensics Evidence Acquisition 	<ul style="list-style-type: none"> • Assisted Lab: Acquiring Digital Forensics Evidence
	<ul style="list-style-type: none"> • Lesson 18: Practice Questions 	<ul style="list-style-type: none"> • Lesson 18: Practice Questions 	
<p>Lesson 19: Summarizing Risk Management Concepts</p>			
<p>Topic 19A: Explain Risk Management Processes and Concepts</p> <p><i>Exam objectives covered:</i> 5.4 Summarize risk management processes and concepts</p>	<ul style="list-style-type: none"> • Video: Managing Risk • Review Activity: Risk Management Processes and Concepts • PBQ: Explain Risk Management Processes and Concepts 	<ul style="list-style-type: none"> • Video: Managing Risk • Review Activity: Risk Management Processes and Concepts 	
<p>Topic 19B: Explain Business Impact Analysis Concepts</p>	<ul style="list-style-type: none"> • Video: Selecting a Disaster Recovery Process 	<ul style="list-style-type: none"> • Video: Selecting a Disaster Recovery Process 	

Course Outline	CertMaster Learn	Student Guide eBook	CertMaster Labs
<p><i>Exam objectives covered:</i> 5.4 Summarize risk management processes and concepts</p>	<ul style="list-style-type: none"> Review Activity: Business Impact Analysis Concepts 	<ul style="list-style-type: none"> Review Activity: Business Impact Analysis Concepts 	
	<ul style="list-style-type: none"> Lesson 19: Practice Questions 	<ul style="list-style-type: none"> Lesson 19: Practice Questions 	
<p>Lesson 20: Implementing Cybersecurity Resilience</p>			
<p>Topic 20A: Implement Redundancy Strategies</p> <p><i>Exam objectives covered:</i> 2.5 Given a scenario, implement cybersecurity resilience</p>	<ul style="list-style-type: none"> Video: Developing a Continuity of Operations Plan Review Activity: Redundancy Strategies PBQ: Implement Redundancy Strategies 	<ul style="list-style-type: none"> Video: Developing a Continuity of Operations Plan Review Activity: Redundancy Strategies 	
<p>Topic 20B: Implement Backup Strategies</p> <p><i>Exam objectives covered:</i> 2.5 Given a scenario, implement cybersecurity resilience</p>	<ul style="list-style-type: none"> Review Activity: Backup Strategies 	<ul style="list-style-type: none"> Review Activity: Backup Strategies 	<ul style="list-style-type: none"> Assisted Lab: Backing Up and Restoring Data in Windows and Linux
<p>Topic 20C: Implement Cybersecurity Resiliency Strategies</p> <p><i>Exam objectives covered:</i> 2.1 Explain the importance of security concepts in an enterprise environment 2.5 Given a scenario, implement cybersecurity resilience 5.3 Explain the importance of policies to organizational security</p>	<ul style="list-style-type: none"> Review Activity: Cybersecurity Resiliency Strategies 	<ul style="list-style-type: none"> Review Activity: Cybersecurity Resiliency Strategies 	
	<ul style="list-style-type: none"> Lesson 20: Practice Questions 	<ul style="list-style-type: none"> Lesson 20: Practice Questions 	<ul style="list-style-type: none"> APPLIED LAB: Managing Incident Response, Mitigation and Recovery
<p>Lesson 21: Explaining Physical Security</p>			
<p>Topic 21A: Explain the Importance of Physical Site Security Controls</p> <p><i>Exam objectives covered:</i></p>	<ul style="list-style-type: none"> Video: Implementing Physical Controls Review Activity: Physical Site Security Controls 	<ul style="list-style-type: none"> Video: Implementing Physical Controls Review Activity: Physical Site Security Controls 	

Course Outline	CertMaster Learn	Student Guide eBook	CertMaster Labs
<p>1.2 Given a scenario, analyze potential indicators to determine the type of attack</p> <p>2.7 Explain the importance of physical security controls</p>			
<p>Topic 21B: Explain the Importance of Physical Host Security Controls</p> <p><i>Exam objectives covered:</i></p> <p>2.7 Explain the importance of physical security controls</p> <p>4.1 Given a scenario, use the appropriate tool to assess organizational security (Data sanitization only)</p>	<ul style="list-style-type: none"> Review Activity: Physical Host Security Controls 	<ul style="list-style-type: none"> Review Activity: Physical Host Security Controls 	
	<ul style="list-style-type: none"> Lesson 21: Practice Questions 	<ul style="list-style-type: none"> Lesson 21: Practice Questions 	
	<ul style="list-style-type: none"> Final Assessment 	<ul style="list-style-type: none"> Final Assessment 	
	<ul style="list-style-type: none"> Strengths and Weaknesses Dashboard Flashcards Game Center 	<ul style="list-style-type: none"> Strengths and Weaknesses Dashboard 	
Student Resources	<ul style="list-style-type: none"> Mapping Course Content to CompTIA Security+ Exam SY0-601 (pdf) 	<ul style="list-style-type: none"> Mapping Course Content to CompTIA Security+ Exam SY0-601 (pdf) 	
Instructor Resources	<ul style="list-style-type: none"> Presentation Planner for Security+ Exam SY0-601 (xlsx) Transition Guide for Official CompTIA Security+ Exam SY0-501 to Official CompTIA Security+ Exam SY0-601 (pdf) Onboarding Guide for Official CompTIA Security+ Exam SY0-601 Content (pdf) Mapping Course Content to CompTIA Security+ Exam SY0-601 (pdf) Instructor PowerPoint Presentations for Security+ Exam SY0-601 (zip) 	<ul style="list-style-type: none"> Presentation Planner for Security+ Exam SY0-601 (xlsx) Transition Guide for Official CompTIA Security+ Exam SY0-501 to Official CompTIA Security+ Exam SY0-601 (pdf) Onboarding Guide for Official CompTIA Security+ Exam SY0-601 Content (pdf) Mapping Course Content to CompTIA Security+ Exam SY0-601 (pdf) Instructor PowerPoint Presentations for Security+ Exam SY0-601 (zip) 	

