



## Course Outline for Security+ (SY0-701) CertMaster Learn, Student Guide and CertMaster Labs

| Course Outline                                                                                                                  | CertMaster Learn                                                                                                                                                                                                                             | Student Guide eBook                                                                                                                                                         | CertMaster Labs                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Overview</b>                                                                                                                 | 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.                                                                                                                                             |
| <b>Lesson 1: Summarize Fundamental Security Concepts</b>                                                                        |                                                                                                                                                                                                                                              |                                                                                                                                                                             |                                                                                                                                                                                                                                          |
| Topic 1A: Security Concepts<br><br><i>Exam objectives covered: 1.2 Summarize fundamental security concepts.</i>                 | <ul style="list-style-type: none"> <li>• Video: Job Roles Using Security+</li> <li>• Review Activity: Security Concepts</li> </ul>                                                                                                           | <ul style="list-style-type: none"> <li>• Video: Job Roles Using Security+</li> <li>• Review Activity: Security Concepts</li> </ul>                                          |                                                                                                                                                                                                                                          |
| Topic 1B: Security Controls<br><br><i>Exam objectives covered: 1.1 Compare and contrast various types of security controls.</i> | <ul style="list-style-type: none"> <li>• PBQ: Compare and Contrast Security Control and Framework Types</li> <li>• Review Activity: Security Controls</li> </ul>                                                                             | <ul style="list-style-type: none"> <li>• Review Activity: Security Controls</li> </ul>                                                                                      |                                                                                                                                                                                                                                          |
|                                                                                                                                 | <ul style="list-style-type: none"> <li>• Lesson 1: Practice Questions</li> </ul>                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Lesson 1: Practice Questions</li> </ul>                                                                                            | <ul style="list-style-type: none"> <li>• Assisted Lab: Explore the Lab Environment</li> <li>• Assisted Lab: Perform System Configuration Gap Analysis</li> <li>• Assisted Lab: Configuring Examples of Security Control Types</li> </ul> |
| <b>Lesson 2: Compare Threat Types</b>                                                                                           |                                                                                                                                                                                                                                              |                                                                                                                                                                             |                                                                                                                                                                                                                                          |

| Course Outline                                                                                                                                                | CertMaster Learn                                                                                                                                                                                                         | Student Guide eBook                                                                                                                                            | CertMaster Labs                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Topic 2A: Threat Actors</p> <p><i>Exam objectives covered:</i><br/>2.1 Compare and contrast common threat actors and motivations.</p>                      | <ul style="list-style-type: none"> <li>• Video: Identifying Common Threat Actors and Motivations</li> <li>• Review Activity: Threat Actors</li> </ul>                                                                    | <ul style="list-style-type: none"> <li>• Video: Identifying Common Threat Actors and Motivations</li> <li>• Review Activity: Threat Actors</li> </ul>          |                                                                                                                                                               |
| <p>Topic 2B: Attack Surfaces</p> <p><i>Exam objectives covered:</i><br/>2.2 Explain common threat vectors and attack surfaces.</p>                            | <ul style="list-style-type: none"> <li>• Review Activity: Attack Surfaces</li> </ul>                                                                                                                                     | <ul style="list-style-type: none"> <li>• Review Activity: Attack Surfaces</li> </ul>                                                                           |                                                                                                                                                               |
| <p>Topic 2C: Social Engineering</p> <p><i>Exam objectives covered:</i><br/>2.2 Explain common threat vectors and attack surfaces.</p>                         | <ul style="list-style-type: none"> <li>• Video: Use the Social Engineer Toolkit</li> <li>• PBQ: Compare and Contrast Social Engineering Techniques</li> <li>• Review Activity: Social Engineering</li> </ul>             | <ul style="list-style-type: none"> <li>• Video: Use the Social Engineer Toolkit</li> <li>• Review Activity: Social Engineering</li> </ul>                      |                                                                                                                                                               |
|                                                                                                                                                               | <ul style="list-style-type: none"> <li>• Lesson 2: Practice Questions</li> </ul>                                                                                                                                         | <ul style="list-style-type: none"> <li>• Lesson 2: Practice Questions</li> </ul>                                                                               | <ul style="list-style-type: none"> <li>• Assisted Lab: Finding Open Service Ports</li> <li>• Assisted Lab: Using SET to Perform Social Engineering</li> </ul> |
| <b>Lesson 3: Explain Cryptographic Solutions</b>                                                                                                              |                                                                                                                                                                                                                          |                                                                                                                                                                |                                                                                                                                                               |
| <p>Topic 3A: Cryptographic Algorithms</p> <p><i>Exam objectives covered:</i><br/>1.4 Explain the importance of using appropriate cryptographic solutions.</p> | <ul style="list-style-type: none"> <li>• Video: Identifying Symmetric Cryptographic Algorithms</li> <li>• PBQ: Identify Cryptographic Modes of Operation</li> <li>• Review Activity: Cryptographic Algorithms</li> </ul> | <ul style="list-style-type: none"> <li>• Video: Identifying Symmetric Cryptographic Algorithms</li> <li>• Review Activity: Cryptographic Algorithms</li> </ul> |                                                                                                                                                               |

| Course Outline                                                                                                                                             | CertMaster Learn                                                                                                                                                     | Student Guide eBook                                                                                                             | CertMaster Labs                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Topic 3B: Public Key Infrastructure</p> <p><i>Exam objectives covered: 1.4 Explain the importance of using appropriate cryptographic solutions.</i></p> | <ul style="list-style-type: none"> <li>• PBQ: Implement Certificates and Certificate Authorities</li> <li>• Review Activity: Public Key Infrastructure</li> </ul>    | <ul style="list-style-type: none"> <li>• Review Activity: Public Key Infrastructure</li> </ul>                                  |                                                                                                                                              |
| <p>Topic 3C: Cryptographic Solutions</p> <p><i>Exam objectives covered: 1.4 Explain the importance of using appropriate cryptographic solutions.</i></p>   | <ul style="list-style-type: none"> <li>• Review Activity: Cryptographic Solutions</li> </ul>                                                                         | <ul style="list-style-type: none"> <li>• Review Activity: Cryptographic Solutions</li> </ul>                                    |                                                                                                                                              |
|                                                                                                                                                            | <ul style="list-style-type: none"> <li>• Lesson 3: Practice Questions</li> </ul>                                                                                     | <ul style="list-style-type: none"> <li>• Lesson 3: Practice Questions</li> </ul>                                                | <ul style="list-style-type: none"> <li>• APPLIED Lab: Using Storage Encryption</li> <li>• Assisted Lab: Using Hashing and Salting</li> </ul> |
| <b>Lesson 4: Implement Identity and Access Management</b>                                                                                                  |                                                                                                                                                                      |                                                                                                                                 |                                                                                                                                              |
| <p>Topic 4A: Authentication</p> <p><i>Exam objectives covered: 4.6 Given a scenario, implement and maintain identity and access management.</i></p>        | <ul style="list-style-type: none"> <li>• Video: Implementing IAM</li> <li>• Review Activity: Authentication</li> </ul>                                               | <ul style="list-style-type: none"> <li>• Video: Implementing IAM</li> <li>• Review Activity: Authentication</li> </ul>          |                                                                                                                                              |
| <p>Topic 4B: Authorization</p> <p><i>Exam objectives covered: 4.6 Given a scenario, implement and maintain identity</i></p>                                | <ul style="list-style-type: none"> <li>• Video: Examining the Access Token</li> <li>• Review Authorization</li> <li>• PBQ: Apply Cloud Security Solutions</li> </ul> | <ul style="list-style-type: none"> <li>• Video: Examining the Access Token</li> <li>• Review Activity: Authorization</li> </ul> |                                                                                                                                              |

| Course Outline                                                                                                                                                                                                                                                              | CertMaster Learn                                                                                                                                                       | Student Guide eBook                                                                                                                                                    | CertMaster Labs                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <i>and access management.</i>                                                                                                                                                                                                                                               |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                        |
| <p>Topic 4C: Identity Management</p> <p><i>Exam objectives covered: 4.6 Given a scenario, implement and maintain identity and access management</i></p>                                                                                                                     | <ul style="list-style-type: none"> <li>Review Activity: Identity Management</li> </ul>                                                                                 | <ul style="list-style-type: none"> <li>Review Activity: Identity Management</li> </ul>                                                                                 |                                                                                                                                        |
|                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Lesson 4: Practice Questions</li> </ul>                                                                                         | <ul style="list-style-type: none"> <li>Lesson 4: Practice Questions</li> </ul>                                                                                         | <ul style="list-style-type: none"> <li>Assisted Lab: Managing Password Security</li> <li>Assisted Lab: Managing Permissions</li> </ul> |
| <b>Lesson 5: Secure Enterprise Network Architecture</b>                                                                                                                                                                                                                     |                                                                                                                                                                        |                                                                                                                                                                        |                                                                                                                                        |
| <p>Topic 5A: Enterprise Network Architecture</p> <p><i>Exam objectives covered: 3.1 Compare and contrast security implications of different architecture models.</i></p> <p><i>3.2 Given a scenario, apply security principles to secure enterprise infrastructure.</i></p> | <ul style="list-style-type: none"> <li>Video: Configuring EAP and AAA Authentication Technologies</li> <li>Review Activity: Enterprise Network Architecture</li> </ul> | <ul style="list-style-type: none"> <li>Video: Configuring EAP and AAA Authentication Technologies</li> <li>Review Activity: Enterprise Network Architecture</li> </ul> |                                                                                                                                        |
| <p>Topic 5B: Network Security Appliances</p> <p><i>Exam objectives covered: 3.2 Given a scenario, apply security principles to secure enterprise infrastructure.</i></p>                                                                                                    | <ul style="list-style-type: none"> <li>Video: Load Balancer Configuration</li> <li>Review Activity: Network Security Appliances</li> </ul>                             | <ul style="list-style-type: none"> <li>Video: Load Balancer Configuration</li> <li>Review Activity: Network Security Appliances</li> </ul>                             |                                                                                                                                        |

| Course Outline                                                                                                                                                                                                                                   | CertMaster Learn                                                                                                                                                                                             | Student Guide eBook                                                                                                                                 | CertMaster Labs                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <p>Topic 5C: Secure Communications</p> <p><i>Exam objectives covered: 3.2 Given a scenario, apply security principles to secure enterprise infrastructure.</i></p>                                                                               | <ul style="list-style-type: none"> <li>• Video: Secure Remote Administration Protocols</li> <li>• PBQ: Implement Secure Remote Access Protocols</li> <li>• Review Activity: Secure Communications</li> </ul> | <ul style="list-style-type: none"> <li>• Video: Secure Remote Administration Protocols</li> <li>• Review Activity: Secure Communications</li> </ul> |                                                                                                                                         |
|                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>• Lesson 5: Practice Questions</li> </ul>                                                                                                                             | <ul style="list-style-type: none"> <li>• Lesson 5: Practice Questions</li> </ul>                                                                    | <ul style="list-style-type: none"> <li>• Assisted Lab: Setting up Remote Access</li> <li>• Assisted Lab: Using TLS Tunneling</li> </ul> |
| <b>Lesson 6: Secure Cloud Network Architecture</b>                                                                                                                                                                                               |                                                                                                                                                                                                              |                                                                                                                                                     |                                                                                                                                         |
| <p>Topic 6A: Cloud Infrastructure</p> <p><i>Exam objectives covered: 3.1 Compare and contrast security implications of different architecture models.</i></p>                                                                                    | <ul style="list-style-type: none"> <li>• Review Activity: Cloud Infrastructure</li> <li>• PBQ: Analyze Infrastructure Types and Functions</li> </ul>                                                         | <ul style="list-style-type: none"> <li>• Review Activity: Cloud Infrastructure</li> </ul>                                                           |                                                                                                                                         |
| <p>Topic 6B: Embedded Systems and Zero Trust Architecture</p> <p><i>Exam objectives covered: 1.2 Summarize fundamental security concepts.</i></p> <p><i>3.1 Compare and contrast security implications of different architecture models.</i></p> | <ul style="list-style-type: none"> <li>• Review Activity: Embedded Systems and Zero Trust Architecture</li> </ul>                                                                                            | <ul style="list-style-type: none"> <li>• Review Activity: Embedded Systems and Zero Trust Architecture</li> </ul>                                   |                                                                                                                                         |

| Course Outline                                                                                                                                                                                                                                                        | CertMaster Learn                                                                                                                                                                                          | Student Guide eBook                                                                                                                                       | CertMaster Labs                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>Lesson 6: Practice Questions</li> </ul>                                                                                                                            | <ul style="list-style-type: none"> <li>Lesson 6: Practice Questions</li> </ul>                                                                            | <ul style="list-style-type: none"> <li>Assisted Lab: Using Containers</li> <li>Assisted Lab: Using Virtualization</li> </ul> |
| <b>Lesson 7: Explain Resiliency and Site Security Concepts</b>                                                                                                                                                                                                        |                                                                                                                                                                                                           |                                                                                                                                                           |                                                                                                                              |
| <p>Topic 7A: Asset Management</p> <p><i>Exam objectives covered: 3.4 Explain the importance of resilience and recovery in security architecture.</i></p> <p><i>4.2 Explain the security implications of proper hardware, software, and data asset management.</i></p> | <ul style="list-style-type: none"> <li>Video: Applying the Elements of Asset Management</li> <li>Review Activity: Asset Management</li> </ul>                                                             | <ul style="list-style-type: none"> <li>Video: Applying the Elements of Asset Management</li> <li>Review Activity: Asset Management</li> </ul>             |                                                                                                                              |
| <p>Topic 7B: Redundancy Strategies</p> <p><i>Exam objectives covered: 1.2 Summarize fundamental security concepts.</i></p> <p><i>3.4 Explain the importance of resilience and recovery in security architecture.</i></p>                                              | <ul style="list-style-type: none"> <li>Video: Detect Malicious Network Traffic with a Honeypot</li> <li>PBQ: Incorporate Redundancy Strategies</li> <li>Review Activity: Redundancy Strategies</li> </ul> | <ul style="list-style-type: none"> <li>Video: Detect Malicious Network Traffic with a Honeypot</li> <li>Review Activity: Redundancy Strategies</li> </ul> |                                                                                                                              |
| <p>Topic 7C: Physical Security</p> <p><i>Exam objectives covered: 1.2 Summarize</i></p>                                                                                                                                                                               | <ul style="list-style-type: none"> <li>Review Activity: Physical Security</li> </ul>                                                                                                                      | <ul style="list-style-type: none"> <li>Review Activity: Physical Security</li> </ul>                                                                      |                                                                                                                              |

| Course Outline                                                                                                                                                        | CertMaster Learn                                                                                                                                                     | Student Guide eBook                                                                                                                                                  | CertMaster Labs                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <i>fundamental security concepts.</i>                                                                                                                                 |                                                                                                                                                                      |                                                                                                                                                                      |                                                                                                                                        |
|                                                                                                                                                                       | <ul style="list-style-type: none"> <li>Lesson 7: Practice Questions</li> </ul>                                                                                       | <ul style="list-style-type: none"> <li>Lesson 7: Practice Questions</li> </ul>                                                                                       | <ul style="list-style-type: none"> <li>Assisted Lab: Implement Backups</li> <li>Assisted Lab: Performing Drive Sanitization</li> </ul> |
| <b>Lesson 8: Explain Vulnerability Management</b>                                                                                                                     |                                                                                                                                                                      |                                                                                                                                                                      |                                                                                                                                        |
| <p>Topic 8A: Device and OS Vulnerabilities</p> <p><i>Exam objectives covered: 2.3 Explain various types of vulnerabilities.</i></p>                                   | <ul style="list-style-type: none"> <li>PBQ: Identify Types of Vulnerabilities</li> <li>Review Activity: Device and OS Vulnerabilities</li> </ul>                     | <ul style="list-style-type: none"> <li>Review Activity: Device and OS Vulnerabilities</li> </ul>                                                                     |                                                                                                                                        |
| <p>Topic 8B: Application and Cloud Vulnerabilities</p> <p><i>Exam objectives covered: 2.3 Explain various types of vulnerabilities.</i></p>                           | <ul style="list-style-type: none"> <li>Video: Understand Various Types of Vulnerabilities</li> <li>Review Activity: Application and Cloud Vulnerabilities</li> </ul> | <ul style="list-style-type: none"> <li>Video: Understand Various Types of Vulnerabilities</li> <li>Review Activity: Application and Cloud Vulnerabilities</li> </ul> |                                                                                                                                        |
| <p>Topic 8C: Vulnerability Identification Methods</p> <p><i>Exam objectives covered: 4.3 Explain various activities associated with vulnerability management.</i></p> | <ul style="list-style-type: none"> <li>Video: Scanning a Network with Nessus</li> <li>Review Activity: Vulnerability Identification Methods</li> </ul>               | <ul style="list-style-type: none"> <li>Video: Scanning a Network with Nessus</li> <li>Review Activity: Vulnerability Identification Methods</li> </ul>               |                                                                                                                                        |
| Topic 8D: Vulnerability Analysis and Remediation                                                                                                                      | <ul style="list-style-type: none"> <li>Review Activity: Vulnerability Analysis and Remediation</li> </ul>                                                            | <ul style="list-style-type: none"> <li>Review Activity: Vulnerability Analysis and Remediation</li> </ul>                                                            |                                                                                                                                        |

| Course Outline                                                                                                                                                                                                                                            | CertMaster Learn                                                                                                                                                    | Student Guide eBook                                                                                                                                                 | CertMaster Labs                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Exam objectives covered: 4.3 Explain various activities associated with vulnerability management.</i>                                                                                                                                                  |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>Lesson 8: Practice Questions</li> </ul>                                                                                      | <ul style="list-style-type: none"> <li>Lesson 8: Practice Questions</li> </ul>                                                                                      | <ul style="list-style-type: none"> <li>Assisted Lab: Exploiting and Detecting SQLi</li> <li>Assisted Lab: Working with Threat Feeds</li> <li>Assisted Lab: Performing Vulnerability Scans</li> </ul> |
| <b>Lesson 9: Evaluate Network Security Capabilities</b>                                                                                                                                                                                                   |                                                                                                                                                                     |                                                                                                                                                                     |                                                                                                                                                                                                      |
| <p>Topic 9A: Network Security Baselines</p> <p><i>Exam objectives covered: 4.1 Given a scenario, apply common security techniques to computing resources.</i></p> <p><i>4.5 Given a scenario, modify enterprise capabilities to enhance security.</i></p> | <ul style="list-style-type: none"> <li>Review Activity: Network Security Baselines</li> <li>PBQ: Implement Secure Wireless Infrastructure</li> </ul>                | <ul style="list-style-type: none"> <li>Review Activity: Network Security Baselines</li> </ul>                                                                       |                                                                                                                                                                                                      |
| <p>Topic 9B: Network Security Capability Enhancement</p> <p><i>Exam objectives covered: 4.5 Given a scenario, modify enterprise capabilities to enhance security.</i></p>                                                                                 | <ul style="list-style-type: none"> <li>Video: Configuring Application Control Software</li> <li>Review Activity: Network Security Capability Enhancement</li> </ul> | <ul style="list-style-type: none"> <li>Video: Configuring Application Control Software</li> <li>Review Activity: Network Security Capability Enhancement</li> </ul> |                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>Lesson 9: Practice Questions</li> </ul>                                                                                      | <ul style="list-style-type: none"> <li>Lesson 9: Practice Questions</li> </ul>                                                                                      | <ul style="list-style-type: none"> <li>Assisted Lab: Understanding Security Baselines</li> </ul>                                                                                                     |

| Course Outline                                                                                                                                                                                                                                                                                                                                            | CertMaster Learn                                                                                                                                                                           | Student Guide eBook                                                                                                                                                                        | CertMaster Labs                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                            |                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>APPLIED Lab: Implementing a Firewall</li> </ul>                             |
| <b>Lesson 10: Assess Endpoint Security Capabilities</b>                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                            |                                                                                                                                                                                            |                                                                                                                    |
| <p>Topic 10A: Implement Endpoint Security</p> <p><i>Exam objectives covered: 2.5 Explain the purpose of mitigation techniques used to secure the enterprise.</i></p> <p><i>4.1 Given a scenario, apply common security techniques to computing resources.</i></p> <p><i>4.5 Given a scenario, modify enterprise capabilities to enhance security.</i></p> | <ul style="list-style-type: none"> <li>Video: Removing Unnecessary Services</li> <li>Video: Hardening an Operating System</li> <li>Review Activity: Implement Endpoint Security</li> </ul> | <ul style="list-style-type: none"> <li>Video: Removing Unnecessary Services</li> <li>Video: Hardening an Operating System</li> <li>Review Activity: Implement Endpoint Security</li> </ul> |                                                                                                                    |
| <p>Topic 10B: Mobile Device Hardening</p> <p><i>Exam objectives covered: 4.1 Given a scenario, apply common security techniques to computing resources.</i></p>                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>PBQ: Implement Mobile Device Management</li> <li>Review Activity: Mobile Device Hardening</li> </ul>                                                | <ul style="list-style-type: none"> <li>Review Activity: Mobile Device Hardening</li> </ul>                                                                                                 |                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>Lesson 10: Practice Questions</li> </ul>                                                                                                            | <ul style="list-style-type: none"> <li>Lesson 10: Practice Questions</li> </ul>                                                                                                            | <ul style="list-style-type: none"> <li>Assisted Lab: Using Group Policy</li> <li>APPLIED Lab: Hardening</li> </ul> |
| <b>Lesson 11: Enhance Application Security Capabilities</b>                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                            |                                                                                                                                                                                            |                                                                                                                    |

| Course Outline                                                                                                                                                                      | CertMaster Learn                                                                                                                                                                                                           | Student Guide eBook                                                                                                                                     | CertMaster Labs                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Topic 11A: Application Protocol Security Baselines</p> <p><i>Exam objectives covered: 4.5 Given a scenario, modify enterprise capabilities to enhance security.</i></p>          | <ul style="list-style-type: none"> <li>• Video: Securing an Email Server</li> <li>• PBQ: Modify Enterprise Capabilities to Enhance Security</li> <li>• Review Activity: Application Protocol Security Baselines</li> </ul> | <ul style="list-style-type: none"> <li>• Video: Securing an Email Server</li> <li>• Review Activity: Application Protocol Security Baselines</li> </ul> |                                                                                                                                                   |
| <p>Topic 11B: Cloud and Web Application Security Concepts</p> <p><i>Exam objectives covered: 4.1 Given a scenario, apply common security techniques to computing resources.</i></p> | <ul style="list-style-type: none"> <li>• Review Activity: Cloud and Web Application Security Concepts</li> </ul>                                                                                                           | <ul style="list-style-type: none"> <li>• Review Activity: Cloud and Web Application Security Concepts</li> </ul>                                        |                                                                                                                                                   |
|                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• Lesson 11: Practice Questions</li> </ul>                                                                                                                                          | <ul style="list-style-type: none"> <li>• Lesson 11: Practice Questions</li> </ul>                                                                       | <ul style="list-style-type: none"> <li>• Assisted Lab: Performing DNS Filtering</li> <li>• Assisted Lab: Configuring System Monitoring</li> </ul> |
| <b>Lesson 12: Explain Incident Response and Monitoring Concepts</b>                                                                                                                 |                                                                                                                                                                                                                            |                                                                                                                                                         |                                                                                                                                                   |
| <p>Topic 12A: Incident Response</p> <p><i>Exam objectives covered: 4.8 Explain appropriate incident response activities.</i></p>                                                    | <ul style="list-style-type: none"> <li>• PBQ: Summarize Incident Response Procedures</li> <li>• Review Activity: Incident Response</li> </ul>                                                                              | <ul style="list-style-type: none"> <li>• Review Activity: Incident Response</li> </ul>                                                                  |                                                                                                                                                   |
| <p>Topic 12B: Digital Forensics</p> <p><i>Exam objectives covered: 4.8 Explain</i></p>                                                                                              | <ul style="list-style-type: none"> <li>• Video: Investigating Security Incidents</li> <li>• Review Activity: Digital Forensics</li> <li>• PBQ:</li> </ul>                                                                  | <ul style="list-style-type: none"> <li>• Video: Investigating Security Incidents</li> <li>• Review Activity: Digital Forensics</li> </ul>               |                                                                                                                                                   |

| Course Outline                                                                                                                                          | CertMaster Learn                                                                                                                                                                    | Student Guide eBook                                                                                                                                                                 | CertMaster Labs                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>appropriate incident response activities.</i>                                                                                                        |                                                                                                                                                                                     |                                                                                                                                                                                     |                                                                                                                                                                                                                                                           |
| <p>Topic 12C: Data Sources</p> <p><i>Exam objectives covered: 4.9 Given a scenario, use data sources to support an investigation.</i></p>               | <ul style="list-style-type: none"> <li>• Video: Analyzing Packets</li> <li>• Review Activity: Data Sources</li> </ul>                                                               | <ul style="list-style-type: none"> <li>• Video: Analyzing Packets</li> <li>• Review Activity: Data Sources</li> </ul>                                                               |                                                                                                                                                                                                                                                           |
| <p>Topic 12D: Alerting and Monitoring Tools</p> <p><i>Exam objectives covered: 4.4 Explain security alerting and monitoring concepts and tools.</i></p> | <ul style="list-style-type: none"> <li>• Video: Understand Security Alerting and Monitoring Concepts and Tools</li> <li>• Review Activity: Alerting and Monitoring Tools</li> </ul> | <ul style="list-style-type: none"> <li>• Video: Understand Security Alerting and Monitoring Concepts and Tools</li> <li>• Review Activity: Alerting and Monitoring Tools</li> </ul> |                                                                                                                                                                                                                                                           |
|                                                                                                                                                         | <ul style="list-style-type: none"> <li>• Lesson 12: Practice Questions</li> </ul>                                                                                                   | <ul style="list-style-type: none"> <li>• Lesson 12: Practice Questions</li> </ul>                                                                                                   | <ul style="list-style-type: none"> <li>• APPLIED Lab: Incident Response: Detection</li> <li>• APPLIED Lab: Performing Digital Forensics</li> <li>• Assisted Lab: Performing Root Cause Analysis</li> <li>• APPLIED Lab: Using Network Sniffers</li> </ul> |
| <b>Lesson 13: Analyze Indicators of Malicious Activity</b>                                                                                              |                                                                                                                                                                                     |                                                                                                                                                                                     |                                                                                                                                                                                                                                                           |
| <p>Topic 13A: Malware Attack Indicators</p> <p><i>Exam objectives covered: 2.4 Given a scenario, analyze indicators of malicious activity.</i></p>      | <ul style="list-style-type: none"> <li>• PBQ: Analyze Indicators of Malware-Based Attacks</li> <li>• Review Activity: Malware Attack Indicators</li> </ul>                          | <ul style="list-style-type: none"> <li>• Review Activity: Malware Attack Indicators</li> </ul>                                                                                      |                                                                                                                                                                                                                                                           |
| <p>Topic 13B: Physical and Network Attack Indicators</p>                                                                                                | <ul style="list-style-type: none"> <li>• Video: Password Attacks</li> <li>• Video: Implementing Secure Network Addressing Services</li> </ul>                                       | <ul style="list-style-type: none"> <li>• Video: Password Attacks</li> <li>• Video: Implementing Secure Network Addressing Services</li> </ul>                                       |                                                                                                                                                                                                                                                           |

| Course Outline                                                                                                                                            | CertMaster Learn                                                                                                                                                | Student Guide eBook                                                                                                                                           | CertMaster Labs                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Exam objectives covered: 2.4 Given a scenario, analyze indicators of malicious activity.</i>                                                           | <ul style="list-style-type: none"> <li>Review Activity: Physical and Network Attack Indicators</li> </ul>                                                       | <ul style="list-style-type: none"> <li>Review Activity: Physical and Network Attack Indicators</li> </ul>                                                     |                                                                                                                                                          |
| Topic 13C: Application Attack Indicators<br><br><i>Exam objectives covered: 2.4 Given a scenario, analyze indicators of malicious activity.</i>           | <ul style="list-style-type: none"> <li>Review Activity: Application Attack Indicators</li> </ul>                                                                | <ul style="list-style-type: none"> <li>Review Activity: Application Attack Indicators</li> </ul>                                                              |                                                                                                                                                          |
|                                                                                                                                                           | <ul style="list-style-type: none"> <li>Lesson 13: Practice Questions</li> </ul>                                                                                 | <ul style="list-style-type: none"> <li>Lesson 13: Practice Questions</li> </ul>                                                                               | <ul style="list-style-type: none"> <li>Assisted Lab: Detecting and Responding to Malware</li> <li>Assisted Lab: Understanding On-Path Attacks</li> </ul> |
| <b>Lesson 14: Summarize Security Governance Concepts</b>                                                                                                  |                                                                                                                                                                 |                                                                                                                                                               |                                                                                                                                                          |
| Topic 14A: Policies, Standards, and Procedures<br><br><i>Exam objectives covered: 5.1 Summarize elements of effective security governance.</i>            | <ul style="list-style-type: none"> <li>PBQ: Apply Appropriate Policies and Regulations</li> <li>Review Activity: Policies, Standards, and Procedures</li> </ul> | <ul style="list-style-type: none"> <li>Review Activity: Policies, Standards, and Procedures</li> </ul>                                                        |                                                                                                                                                          |
| Topic 14B: Change Management<br><br><i>Exam objectives covered: 1.3 Explain the importance of change management processes and the impact to security.</i> | <ul style="list-style-type: none"> <li>Video: Understand the Importance of Change Management Processes</li> <li>Review Activity: Change Management</li> </ul>   | <ul style="list-style-type: none"> <li>Video: Understand the Importance of Change Management Processes</li> <li>Review Activity: Change Management</li> </ul> |                                                                                                                                                          |
| Topic 14C: Automation and Orchestration                                                                                                                   | <ul style="list-style-type: none"> <li>Video: Understand Automation and Orchestration for Secure Operations</li> </ul>                                          | <ul style="list-style-type: none"> <li>Video: Understand Automation and Orchestration for Secure Operations</li> </ul>                                        |                                                                                                                                                          |

| Course Outline                                                                                                                                                            | CertMaster Learn                                                                                                                              | Student Guide eBook                                                                                                                           | CertMaster Labs                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Exam objectives covered: 4.7 Explain the importance of automation and orchestration related to secure operations.</i>                                                  | <ul style="list-style-type: none"> <li>Review Activity: Automation and Orchestration</li> </ul>                                               | <ul style="list-style-type: none"> <li>Review Activity: Automation and Orchestration</li> </ul>                                               |                                                                                                                                                                                                              |
|                                                                                                                                                                           | <ul style="list-style-type: none"> <li>Lesson 14: Practice Questions</li> </ul>                                                               | <ul style="list-style-type: none"> <li>Lesson 14: Practice Questions</li> </ul>                                                               | <ul style="list-style-type: none"> <li>ADAPTIVE Lab: Using a Playbook</li> <li>Assisted Lab: Implementing Allow Lists and Deny Lists</li> <li>Assisted Lab: Use Cases of Automation and Scripting</li> </ul> |
| <b>Lesson 15: Explain Risk Management Processes</b>                                                                                                                       |                                                                                                                                               |                                                                                                                                               |                                                                                                                                                                                                              |
| <p>Topic 15A: Risk Management Processes and Concepts</p> <p><i>Exam objectives covered: 5.2 Explain elements of the risk management process.</i></p>                      | <ul style="list-style-type: none"> <li>Review Activity: Risk Management Processes and Concepts</li> </ul>                                     | <ul style="list-style-type: none"> <li>Review Activity: Risk Management Processes and Concepts</li> </ul>                                     |                                                                                                                                                                                                              |
| <p>Topic 15B: Vendor Management Concepts</p> <p><i>Exam objectives covered: 5.3 Explain the processes associated with third-party risk assessment and management.</i></p> | <ul style="list-style-type: none"> <li>Review Activity: Vendor Management Concepts</li> </ul>                                                 | <ul style="list-style-type: none"> <li>Review Activity: Vendor Management Concepts</li> </ul>                                                 |                                                                                                                                                                                                              |
| <p>Topic 15C: Audits and Assessments</p> <p><i>Exam objectives covered: 5.5 Explain types and purposes of audits and assessments.</i></p>                                 | <ul style="list-style-type: none"> <li>Video: Exploring Penetration Testing Tools</li> <li>Review Activity: Audits and Assessments</li> </ul> | <ul style="list-style-type: none"> <li>Video: Exploring Penetration Testing Tools</li> <li>Review Activity: Audits and Assessments</li> </ul> |                                                                                                                                                                                                              |

| Course Outline                                                                                                                                                                                                                       | CertMaster Learn                                                                                                                                                                                                                                                                     | Student Guide eBook                                                                                                                                            | CertMaster Labs                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>Lesson 15: Practice Questions</li> </ul>                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>Lesson 15: Practice Questions</li> </ul>                                                                                | <ul style="list-style-type: none"> <li>Assisted Lab: Performing Reconnaissance</li> <li>Assisted Lab: Performing Penetration Testing</li> </ul>                  |
| <b>Lesson 16: Summarize Data Protection and Compliance Concepts</b>                                                                                                                                                                  |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                |                                                                                                                                                                  |
| <p>Topic 16A: Data Classification and Compliance</p> <p><i>Exam objectives covered: 3.3 Compare and contrast concepts and strategies to protect data.</i></p> <p><i>5.4 Summarize elements of effective security compliance.</i></p> | <ul style="list-style-type: none"> <li>Video: Understand Effective Security Compliance</li> <li>PBQ: Explain Privacy and Data Sensitivity Concepts</li> <li>PBQ: Apply Appropriate Techniques to Secure Data</li> <li>Review Activity: Data Classification and Compliance</li> </ul> | <ul style="list-style-type: none"> <li>Video: Understand Effective Security Compliance</li> <li>Review Activity: Data Classification and Compliance</li> </ul> |                                                                                                                                                                  |
| <p>Topic 16B: Personnel Policies</p> <p><i>Exam objectives covered: 5.6 Given a scenario, implement security awareness practices.</i></p>                                                                                            |                                                                                                                                                                                                                                                                                      |                                                                                                                                                                |                                                                                                                                                                  |
|                                                                                                                                                                                                                                      | Lesson 16: Practice Questions                                                                                                                                                                                                                                                        | Lesson 16: Practice Questions                                                                                                                                  | <ul style="list-style-type: none"> <li>Assisted Lab: Training and Awareness through Simulation</li> <li>Challenge Lab: Discovering Anomalous Behavior</li> </ul> |
|                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>Final Assessment</li> </ul>                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Final Assessment</li> </ul>                                                                                             |                                                                                                                                                                  |
|                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>Strengths and Weaknesses Dashboard</li> <li>Flashcards</li> <li>Game Center</li> </ul>                                                                                                                                                        | <ul style="list-style-type: none"> <li>Strengths and Weaknesses Dashboard</li> </ul>                                                                           |                                                                                                                                                                  |
| <b>Student Resources</b>                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Mapping Course Content to CompTIA</li> </ul>                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>Mapping Course Content to CompTIA Security+ SY0-701 (pdf)</li> </ul>                                                    |                                                                                                                                                                  |

| Course Outline              | CertMaster Learn                                                                                                                                                                                                                                                                                                                                                                                                                                           | Student Guide eBook                                                                                                                                                                                                                                                                                                                                                                                                                                        | CertMaster Labs |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                             | Security+ SY0-701 (pdf)                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| <b>Instructor Resources</b> | <ul style="list-style-type: none"> <li>• Presentation Planner for Security+ SY0-701 (xlsx)</li> <li>• Transition Guide for Official CompTIA Security+ Exam SY0-601 to Official CompTIA Security+ SY0-701 (pdf)</li> <li>• Onboarding Guide for Official CompTIA Security+ SY0-701 Content (pdf)</li> <li>• Mapping Course Content to CompTIA Security+ SY0-701 (pdf)</li> <li>• Instructor PowerPoint Presentations for Security+ SY0-701 (zip)</li> </ul> | <ul style="list-style-type: none"> <li>• Presentation Planner for Security+ SY0-701 (xlsx)</li> <li>• Transition Guide for Official CompTIA Security+ Exam SY0-601 to Official CompTIA Security+ SY0-701 (pdf)</li> <li>• Onboarding Guide for Official CompTIA Security+ SY0-701 Content (pdf)</li> <li>• Mapping Course Content to CompTIA Security+ SY0-701 (pdf)</li> <li>• Instructor PowerPoint Presentations for Security+ SY0-701 (zip)</li> </ul> |                 |

