Security + 601 Pacing Guide

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| Week 1 | Topic 1A: Compare and Contrast Information Security Roles |
|  | Review Activity: Information Security Roles |
|  | PBQ 1A: Compare and Contrast Security Control and Framework Types |
|  | Topic 1B: Compare and Contrast security Control and Framework |
|  | Review Activity: Security Control and Framework |
|  | PBQ 1B: |
|  | Lesson 1: Practice Questions |
|  | Assisted Lab: [Exploring the lab environment](https://lrps.wgu.edu/provision/253191343) |
|  | Topic 2A: Explain Threat Actor Types and Attack Vectors |
|  | Review Activity: Threat Actor Types and Attack Vectors |
|  | Topic 2B: Explain Threat Intelligence Sources |
|  | Review Activity: Threat Intelligence Sources |
|  | Lesson 2: Practice Questions |
|  | Lesson 3A: Assess Organizational Security with Network |
|  | Review Activity: organizational Security with Network Reconnaissance Tools |
|  | Assisted Lab: Exploring the Lab Environment |
|  | Assisted Lab: Scanning and Identifying Network Nodes |
|  | Assisted Lab: Scanning and Identifying Network Nodes |
|  | Assisted Lab: Intercepting and Interpreting Network Traffic with Packet Sniffing Tools |
|  | PBQ 3A: Assess Organizational Security with Network Reconnaissance Tools |
|  | Topic 3B: Explain Security Concerns with General Vulnerability Types |
|  | Review Activity: Security Concerns with General Vulnerability Types |
|  | Topic 3C: Summarize Vulnerability Scanning Techniques |
|  | Review Activity: Vulnerability Scanning Techniques |
|  | Assisted Lab: analyzing the Results of a Credentialed Vulnerability Scan |
|  | Topic 3D: Explain Penetration Testing Concepts |
|  | Lesson 3: Practice Questions |
|  | Assisted Lab: [Scanning and Identifying Network Nodes](https://lrps.wgu.edu/provision/253404590)  Assisted Lab: [Intercepting and Interpreting Network Traffic with Packet Sniffing Tools](https://lrps.wgu.edu/provision/253417813)  Assisted Lab: [Analyzing the Results of a Credentialed Vulnerability Scan](https://lrps.wgu.edu/provision/253418230) |
| Week 2 | Topic 4A: Compare and Contrast Social Engineering Techniques |
|  | Review Activity: Social Engineering Techniques |
|  | PBQ 4A: Compare and Contrast Social Engineering Techniques |
|  | Topic 4B: Analyze Indicators of Malware-Based Attacks |
|  | Review Activity: Indicators of Malware-Based Attacks |
|  | PBQ4B: Analyze Indicators of Malware-Based Attacks |
|  | Assisted Lab: [Installing, Using, and Blocking a Malware-Based Backdoor](https://lrps.wgu.edu/provision/253419180)  Applied Lab: [Performing Network Reconnaissance and Vulnerability Scanning](https://lrps.wgu.edu/provision/253419815) |
|  | Lesson 4: Practice Questions |
|  | Applied Lab: Performing Network Reconnaissance and Vulnerability Scanning |
|  | Topic 5A: Compare and Contrast Cryptographic Ciphers |
|  | Review Activity: Cryptographic Ciphers |
|  | Topic 5B: Summarize Cryptographic Modes of Operation |
|  | Review Activity: Cryptographic Modes of Operation |
|  | PBQ 5B: Summarize Cryptographic Modes of Operation |
|  | Topic 5C: Summarize Cryptographic Use Cases and Weaknesses |
|  | Review Activity: Summarize Cryptographic Use Cases and Weaknesses |
|  | Topic 5D: Summarize Other Cryptographic Technologies |
|  | Review Activity: Other Cryptographic Technologies |
|  | Lesson 5: Practice Questions |
|  | Topic 6A: Implement Certificates and Certificate Authorities |
|  | Review Activity: Certificates and Certificate Authorities |
|  | PBQ 6A: Implement Certificates and Certificate Authorities |
|  | Assisted Lab: Managing the Life Cycle of a Certificate |
|  | Topic 6B: Implement PKI Management |
|  | Review Activity: PKI Management |
|  | Assisted Lab: [Managing the Lifecycle of a Certificate](https://lrps.wgu.edu/provision/253420326)  Assisted Lab: [Managing Certificates with OpenSSL](https://lrps.wgu.edu/provision/253420542) |
|  | Lesson 6: Practice Questions |
| Week 3 | Topic 7A: Summarize Authentication Design Concepts |
|  | Review Activity: Authentication Design Concepts |
|  | Topic 7B: Implement Knowledge-Based Authentication |
|  | Review Activity: Knowledge-Based Authentication |
|  | PBQ 7B: Implement Knowledge-Based Authentication |
|  | Assisted Lab: Auditing Passwords with a Password Cracking Utility |
|  | Topic 7C: implement Authentication Technologies |
|  | Review Activity: Authentication Technologies |
|  | Assisted Lab: Managing Centralized Authentication |
|  | Topic 7D: Summarize Biometrics Authentication Concepts |
|  | Review Activity: Biometrics Authentication Concepts |
|  | Lesson 7 Practice Questions |
|  | Assisted Lab: [Auditing Passwords with a Password Cracking Utility](https://lrps.wgu.edu/provision/253420717)  Assisted Lab: [Managing Centralized Authentication](https://lrps.wgu.edu/provision/253420954) |
|  | Topic 8A: Implement Identity and Account Types |
|  | Review Activity: Identity and Account Types |
|  | Topic 8B: Implement Account Policies |
|  | Review Activity: Account Policies |
|  | PBQ 8B: Implement Account Policies |
|  | Assisted Lab: Configuring a System for Auditing Policies |
|  | Topic 8C: Implement Authorization Solutions |
|  | Review Activity: Authorization Solutions |
|  | Assisted Lab: Managing Access Controls in Linux |
|  | Topic 8D: Explain the Importance of Personnel Policies |
|  | Review Activity: Importance of Personnel Policies |
|  | Lesson 8: Practice Questions |
|  | Lesson 8 PBQ: Implement Identity, Account Types, and Account Policies |
|  | Assisted Lab: [Managing Access Controls in Windows Server](https://lrps.wgu.edu/provision/253421859)  Assisted Lab: [Configuring a System for Auditing Policies](https://lrps.wgu.edu/provision/253422355)  Assisted Lab: [Managing Access Controls in Linux](https://lrps.wgu.edu/provision/253422716)  Applied Lab: [Configuring Identity and Access Management Controls](https://lrps.wgu.edu/provision/253423081) |
|  | Topic 9A: Implement Secure Network Designs |
|  | Review Activity: Secure Network Designs |
|  | Topic 9B: Implement Secure Switching and Routing |
|  | Review Activity: Secure Switching and Routing |
|  | PBQ 9B: Implement Secure Switching and Routing |
|  | Review Activity: Secure Switching and Routing |
|  | PBQ 9B: Implement Secure Switching and Routing |
|  | Assisted Lab: Implementing a Secure Network Design |
|  | Topic 9C: Implement Secure Wireless Infrastructure |
|  | Review Activity: Secure Wireless Infrastructure |
|  | PBQ 9C: Implement Secure Wireless Infrastructure |
|  | Topic 9D: Implement Load Balancers |
|  | Review Activity: Load Balancers |
|  | Lesson 9: Practice Questions |
|  | Assisted Lab: I[mplementing a Secure Network Design](https://lrps.wgu.edu/provision/253424217) |
| Week 4 | Topic 10A: Implement Firewalls and Proxy Servers |
|  | Review Activity Firewalls and Proxy Servers |
|  | PBQ 10A: Implement Firewalls and Proxy Servers |
|  | Assisted Lab: Configuring a Firewall |
|  | Topic 10B: Implement Network Security Monitoring |
|  | Review Activity: Network Security Monitoring |
|  | Assisted Lab: Configuring and Intrusion Detection System |
|  | Topic 10C: Summarize the Use of SIEM |
|  | Review Activity: Use of SIEM |
|  | Lesson 10: Practice Questions |
|  | Assisted Lab: [Configuring a Firewall](https://lrps.wgu.edu/provision/253424874)  Assisted Lab: [Configuring an Intrusion Detection System](https://lrps.wgu.edu/provision/253425049) |
|  | Topic 11A: Implement Secure Network Operations Protocols |
|  | Review Activity: Secure Network Operations Protocols |
|  | Assisted Lab: Implementing Secure Network Addressing Protocols |
|  | Topic 11B: Implement Secure Application Protocols |
|  | Review Activity: Secure Application Protocols |
|  | PBQ 11B: Implement Secure Application Protocols |
|  | Topic 11C: Implement Secure Remote Access Protocols |
|  | Review Activity: Secure Remote Access Protocols |
|  | PBQ 11C: Implement Secure Remote Access Protocols |
|  | Assisted Lab: Implementing a Virtual Private Network |
|  | Assisted Lab: Implementing a secure SSH server |
|  | Lesson 11: Practice Questions |
|  | Assisted Lab: [Implementing Secure Network Addressing Services](https://lrps.wgu.edu/provision/253425324)  Assisted Lab: [Implementing a Virtual Private Network](https://lrps.wgu.edu/provision/253426403)  Assisted Lab: [Implementing a Secure SSH Server](https://lrps.wgu.edu/provision/253427522) |
|  | Topic 12A: Implement Secure Firmware |
|  | Review Activity: Secure Firmware |
|  | Topic 12B: Implement Endpoint Security |
|  | Review Activity: Endpoint Security |
|  | Assisted Lab: Implementing Endpoint Protection |
|  | Topic 12C: Explain Embedded System Security Implications |
|  | Review Activity: Embedded System Security Implications |
|  | Lesson 12: Practice Questions |
|  | Assisted Lab: [Implementing Endpoint Protection](https://lrps.wgu.edu/provision/253428009)  Applied Lab: [Securing the Network Infrastructure](https://lrps.wgu.edu/provision/253428274) |
| Week 5 | Topic 13A: Implement Mobile Device Management |
|  | Review Activity: Mobile Device Management |
|  | PBQ 13A: Implement Mobile Device Management |
|  | Topic 13B: Implement Secure Mobile Device Connections |
|  | Review Activity: secure Mobile Device Connections |
|  | Lesson 13: Practice Questions |
|  | Topic 14A: Analyze Indicators of Application Attacks |
|  | Review Activity: Indicators of Application Attacks |
|  | Assisted Lab: Identifying Application Attack Indicators |
|  | Topic 14B: Analyze Indicators of Web Application Attacks |
|  | Review Activity: Indicators of Web Application Attacks |
|  | Assisted Lab: Identifying a Browser Attack |
|  | Topic 14C: Summarize Secure Coding Practices |
|  | Review Activity: Secure Coding Practices |
|  | Topic 14D: Implement secure Script Environments |
|  | Assisted Lab: Implementing PowerShell Security |
|  | Assisted Lab: Identifying Malicious Code |
|  | Topic 14E: Summarize Deployment and Automation Concepts |
|  | Review Activity: Deployment and Automation Concepts |
|  | Lesson 14: Practice Questions |
|  | Assisted Lab: [Identifying Application Attack Indicators](https://lrps.wgu.edu/provision/253428406)  Assisted Lab: [Identifying a Browser Attack](https://lrps.wgu.edu/provision/253429142)  Assisted Lab: [Implementing PowerShell Security](https://lrps.wgu.edu/provision/253429289)  Assisted Lab: [Identifying Malicious Code](https://lrps.wgu.edu/provision/253429520)  Applied Lab: [Identifying Application Attacks](https://lrps.wgu.edu/provision/253429697) |
|  | Topic 15A: Summarize Secure Cloud and Virtualization Services |
|  | Review Activity: Secure Cloud and Virtualization Services |
|  | PBQ 15B Apply Cloud Security Solutions |
|  | Topic 15B: Apply Cloud Security Solutions |
|  | Review Activity: Cloud Security Solutions |
|  | Topic 15C: Summarize Infrastructure as Code Concepts |
|  | Review Activity: Infrastructure as a Code |
|  | Lesson 15: Practice Questions |
| Week 6 | Topic 16A: Explain Privacy and Data Sensitivity Concepts |
|  | Review Activity: Privacy and Data Sensitivity Concepts |
|  | PBQ 16A: Explain Privacy and Data Protection Controls |
|  | Review Activity: Privacy and Data Protection Controls |
|  | Lesson 16: Practice Questions |
|  | Applied Lab: Identifying Application Attacks |
|  | Topic 17A: Summarize Incident Response Procedures |
|  | Review Activity: Incident Response Procedures |
|  | PBQ 17A: Summarize Incident Response Procedures |
|  | Topic 17B: Utilize Appropriate Data Sources for Incident Response |
|  | Assisted Lab: Managing Data Sources for Incident Response |
|  | Topic 17C: Apply Mitigation Controls |
|  | Review Activity: Mitigation Controls |
|  | Assisted Lab: [Managing Data Sources for Incident Response](https://lrps.wgu.edu/provision/253429836)  Assisted Lab: [Configuring Mitigation Controls](https://lrps.wgu.edu/provision/253430040) |
|  | Lesson 17: Practice Questions |
|  | Topic 18A: Explain Key Aspects of Digital Forensics Documentation |
|  | Review Activity: Explain Key Aspects of Digital Forensics Documentation |
|  | Review Activity: Digital Forensics Documentation |
|  | Topic 18B: Explain Key Aspects of Digital Forensics Evidence Acquisition |
|  | Review Activity: Digital Forensics Evidence Acquisition |
|  | Assisted Lab: [Acquiring Digital Forensics Evidence](https://lrps.wgu.edu/provision/253430195) |
|  | Lesson 18: Practice Questions |
| Week 7 | Topic 19A: Explain Risk Management Processes and Concepts |
|  | Review Activity: Risk Management Processes and Concepts |
|  | PBQ 19A: Explain Risk Management Processes and Concepts |
|  | Topic 19B: Explain Business Impact Analysis Concepts |
|  | Review Activity: Business Impact Analysis Concepts |
|  | Lesson 19: Practice questions |
|  | Topic 20A: Implement Redundancy Strategies |
|  | Review Activity: Redundancy Strategies |
|  | PBQ 20A: Implement Redundancy Strategies |
|  | Topic 20B: Implement Backup Strategies |
|  | Review Activity: Backup Strategies |
|  | Topic 20C: Implement Cybersecurity Resiliency Strategies |
|  | Review Activity: Cybersecurity Resiliency Strategies |
|  | Assisted Lab: [Backing Up and Restoring Data in Windows and Linux](https://lrps.wgu.edu/provision/253430374)  Applied Lab: [Managing Incident Response, Mitigation, and Recovery](https://lrps.wgu.edu/provision/253430536) |
|  | Lesson 20: Practice Questions |
|  | Topic 21A: Explain the Importance of Physical Site Security Controls |
|  | Review Activity: Physical Site Security Controls |
|  | Topic 21B: Explain the Importance of Physical Host Security Controls |
|  | Review Activity: Physical Host Security Controls |
|  | Lesson 21: Practice Question |
|  | Applied Lab: Managing Incident Response, Mitigation, and Recover |
| Week 8 | Final Assessment, review gaps and take the Security + Exam |
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