

Marvelous WGU Reliable Secure-Software-Design Exam Question - Secure-Software-Design Free Download

WGU D487 – Secure Software Design Exam | 2025/2026 Actual Exam (Version A & B) | 100% Correct Verified Answers | Graded A+

Section 1: Introduction

This comprehensive guide includes both Version A and Version B of the WGU D487 Secure Software Design Exam, tailored to the 2025/2026 certification cycle. It contains detailed, accurate questions and verified answers for each version, reflecting the most current curriculum standards in secure software architecture, threat mitigation, SDLC integration, and compliance frameworks. The content is designed to help students prepare confidently and succeed with distinction—each question is paired with a brief rationale for clarity and mastery.

Section 2: Exam Content and Responses

Version A

1 **Question:** What is the primary goal of secure software design?

- A. Maximize software performance
- B. Protect applications from security threats
- C. Reduce development time
- D. Enhance user interface

Correct Answer: B. Protect applications from security threats

Rationale: Secure design focuses on mitigating vulnerabilities throughout the SDLC.

2 **Question:** Which SDLC phase is most critical for integrating security?

- A. Testing
- B. Requirements gathering
- C. Deployment
- D. Maintenance

Correct Answer: B. Requirements gathering

Rationale: Early integration in requirements ensures security is built-in, per NIST guidelines.

3 **Question:** What is the purpose of threat modeling in secure software design?

- A. Optimize code efficiency
- B. Identify potential security risks
- C. Increase system uptime
- D. Reduce hardware costs

Correct Answer: B. Identify potential security risks

Rationale: Threat modeling, as per OWASP, maps risks to mitigate them proactively.

4 **Question:** Which principle advocates minimizing attack surfaces?

- A. Least privilege

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Software System Management: This section of the exam measures skills of Software Project Managers and covers the management of large scale software systems. Learners study approaches for overseeing software projects from conception through deployment. The material focuses on coordination strategies and management techniques that ensure successful delivery of complex software solutions.

Topic 2	<ul style="list-style-type: none"> • Design Pattern Selection and Implementation: This section of the exam measures skills of Software Developers and Software Architects and covers the selection and implementation of appropriate design patterns. Learners examine common design patterns and their applications in software development. The material focuses on understanding when and how to apply specific patterns to solve recurring design problems and improve code organization.
Topic 3	<ul style="list-style-type: none"> • Reliable and Secure Software Systems: This section of the exam measures skills of Software Engineers and Security Architects and covers building well structured, reliable, and secure software systems. Learners explore principles for creating software that performs consistently and protects against security threats. The content addresses methods for implementing reliability measures and security controls throughout the software development lifecycle.
Topic 4	<ul style="list-style-type: none"> • Large Scale Software System Design: This section of the exam measures skills of Software Architects and covers the design and analysis of large scale software systems. Learners investigate methods for planning complex software architectures that can scale and adapt to changing requirements. The content addresses techniques for creating system designs that accommodate growth and handle increased workload demands.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q69-Q74):

NEW QUESTION # 69

During fuzz testing of the new product, random values were entered into input elements Search requests were sent to the correct API endpoint but many of them failed on execution due to type mismatches.
How should existing security controls be adjusted to prevent this in the future?

- A. Ensure sensitive transactions can be traced through an audit log
- B. Ensure the contents of authentication cookies are encrypted
- **C. Ensure all user input data is validated prior to transmitting requests**
- D. Ensure all requests and responses are encrypted

Answer: C

Explanation:

Validating user input data before it is processed by the application is a fundamental security control in software design. This process, known as input validation, ensures that only properly formed data is entering the workflow of the application, thereby preventing many types of attacks, including type mismatches as mentioned in the question. By validating input data, the application can reject any requests that contain unexpected or malicious data, reducing the risk of security vulnerabilities and ensuring the integrity of the system.

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Secure SDLC practices emphasize the importance of integrating security activities, such as creating security and functional requirements, code reviews, security testing, architectural analysis, and risk assessment, into the existing development workflow1. A Secure Software Development Life Cycle (SSDLC) ensures that security is considered at every phase of the development process, from planning and design to coding, testing, deploying, and maintaining the software2.

NEW QUESTION # 70

Which design and development deliverable contains the results of each type of evaluation that was performed and the type and number of vulnerabilities discovered?

- A. Privacy compliance report
- **B. Security testing reports**
- C. Remediation report
- D. Security test execution report

Answer: B

Explanation:

Security testing reports are the deliverables that typically contain detailed results of the security evaluations performed. These reports include the types of tests conducted, such as static and dynamic analysis, penetration testing, and code reviews, as well as the number and types of vulnerabilities discovered. The purpose of these reports is to document the security posture of the software at the time of testing and to provide a basis for remediation efforts.

References: The information aligns with best practices in secure software development, which emphasize the importance of documenting security requirements and conducting risk analysis during the design phase to identify and mitigate vulnerabilities early in the SDLC12.

NEW QUESTION # 71

Which privacy impact statement requirement type defines how personal information will be protected when authorized or independent external entities are involved?

- **A. Third party requirements**
- B. Personal information retention requirements
- C. Data integrity requirements
- D. User controls requirements

Answer: A

Explanation:

The privacy impact statement requirement that defines how personal information will be protected when authorized or independent external entities are involved is best categorized under Third party requirements.

This aspect of privacy impact assessments ensures that personal data is safeguarded even when it is necessary to involve third parties, which could be service providers, partners, or other entities that might handle personal information on behalf of the primary organization. These requirements typically include stipulations for data handling agreements, security measures, and compliance checks to ensure that third parties maintain the confidentiality and integrity of the personal information they process.

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Guide to undertaking privacy impact assessments | OAIC1

A guide to Privacy Impact Assessments - Information and Privacy2

Personal Information Protection Law of China: Key Compliance Considerations3 Privacy Impact Assessment - General Data

Protection Regulation (GDPR)4 Privacy impact assessment (PIA) - TechTarget5

NEW QUESTION # 72

The security software team has cloned the source code repository of the new software product so they can perform vulnerability testing by modifying or adding small snippets of code to see if they can cause unexpected behavior and application failure.

Which security testing technique is being used?

- A. Fuzz Testing
- B. Binary Fault Injection
- C. Dynamic Code Analysis
- **D. Source-Code Fault Injection**

Answer: D

NEW QUESTION # 73

Senior IT staff has determined that a new product will be hosted in the cloud and will support web and mobile users. Developers will

need to deliver secure REST services, Android and IOS mobile apps, and a web application. Developers are currently determining how to deliver each part of the overall product.

Which phase of the software development lifecycle (SDLC) is being described?

- A. Design
- B. Deployment
- C. Maintenance
- D. End of life

Answer: A

Explanation:

The phase being described is the Design phase of the SDLC. During this phase, developers and IT staff determine the architectural and operational details of the product, which includes decisions on how to deliver various components such as secure REST services, mobile apps, and web applications. The Design phase is crucial for setting the foundation for the development work that will follow, ensuring that the product will be secure, scalable, and maintainable.

References: The information aligns with the descriptions of the SDLC phases provided in resources such as GitHub's explanation of the SDLC¹ and other industry-standard software development lifecycle resources²³⁴.

NEW QUESTION # 74

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