

# Valid WGU Secure-Software-Design Test Answers & Secure-Software-Design Updated CBT

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## 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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## WGUSecure Software Design (KEO1) Exam Sample Questions (Q106-Q111):

### NEW QUESTION # 106

Security testers have completed testing and are documenting the results of vulnerability scans and penetration analysis. They are also creating documentation to share with the organization's largest customers.

Which deliverable is being prepared?

- A. Security testing reports
- B. Remediation report
- C. Customer engagement framework
- D. Open-source licensing review report

**Answer: A**

Explanation:

After completing vulnerability scans and penetration analysis, security testers document the results to share with stakeholders, such as the organization's largest customers. The deliverable being prepared in this context is the Security testing reports. These reports typically include detailed findings from the security assessments, explanations of the vulnerabilities discovered, the potential risks they pose, and recommendations for remediation. The purpose of these reports is to provide transparency about the security posture of the software or system and to guide the organization in addressing the identified security issues<sup>12</sup>. References: 1, 2

<https://blog.halosecurity.com/what-really-matters-when-it-comes-to-pentesting-deliverables/>

### NEW QUESTION # 107

Which DKEAD category has a risk rating based on the threat exploit's potential level of harm?

- A. Exploitability
- B. Damage potential
- C. Affected users
- D. Reproducibility

**Answer: B**

Explanation:

The DKEAD category that has a risk rating based on the threat exploit's potential level of harm is Damage potential. This category assesses the total damage or impact that a threat could cause if it is exploited by an attacker. The risk rating in this category is determined by evaluating the severity of the potential damage, which could range from information disclosure to complete system destruction or loss of system availability.

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DREAD Threat Modeling<sup>1</sup>

OWASP Risk Rating Methodology<sup>2</sup>

DREAD Threat Modeling: An Introduction to Qualitative Risk Analysis<sup>3</sup>

### NEW QUESTION # 108

Which software control test examines an application from a user perspective by providing a wide variety of input scenarios and inspecting the output?

- A. Black box
- B. White box
- C. Static
- D. Dynamic

**Answer: A**

Explanation:

The software control test that examines an application from a user perspective by providing a wide variety of input scenarios and inspecting the output is known as black box testing. This testing method focuses on the functionality of the application rather than its internal structures or workings. Testers provide inputs and examine outputs without knowing how and where the inputs are worked upon. It's designed to test the system's external behavior.

\* Black box testing is used to verify that the system meets the requirements and behaves as expected in various scenarios, including edge cases and incorrect input data. It helps in identifying discrepancies between the system's actual functionality and its specified requirements.

\* This type of testing is applicable across various levels of software testing, including unit, integration,

\* system, and acceptance testing. It is particularly useful for validating user stories and use cases during the software development process.

\* Since black box testing treats the software as a "black box", it does not require the tester to have knowledge of the programming languages or the system's implementation. This allows testers to objectively test the software's behavior and performance.

References: The concept of black box testing is well-documented and is a standard practice in secure software design, as outlined by sources such as LambdaTest<sup>1</sup> and other industry best practices.

### NEW QUESTION # 109

What is a best practice of secure coding?

- A. Session management
- B. Planning
- C. User acceptance testing
- D. Microservices

**Answer: A**

Explanation:

Session management is a core component of secure coding, which involves maintaining the state of a user's interaction with a system. Proper session management can help protect against various security vulnerabilities, such as session hijacking and session fixation attacks. It is essential for ensuring that user data is handled securely throughout an application's workflow.

References: The OWASP Secure Coding Practices guide emphasizes the importance of implementing secure coding standards, which include robust session management<sup>1</sup>. Additionally, Snyk's secure coding practices highlight the significance of access control, including authentication and authorization, as fundamental to protecting a system<sup>2</sup>. These resources align with the concept that effective session management is a best practice in secure coding.

### NEW QUESTION # 110

Which type of security analysis is performed by reviewing source code line-by-line after other security analysis techniques have been executed?

- A. Static Analysis
- B. Fuzz Testing
- C. Dynamic Analysis
- D. Manual Code Review

**Answer: D**

### NEW QUESTION # 111

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