

Valid WGU Secure-Software-Design Exam Cram & Secure-Software-Design Practice Test Pdf

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 (Q114-Q119):

NEW QUESTION # 114

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

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

Answer: A

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 Modeling¹

OWASP Risk Rating Methodology²

DREAD Threat Modeling: An Introduction to Qualitative Risk Analysis³

NEW QUESTION # 115

The Chief Information Security Officer (CISO) has recommended contracting with external experts to perform annual reviews of the enterprise's software products, including penetration testing.

Which post-release deliverable is being described?

- A. Post-Release Certifications
- **B. Third-Party Security Review**
- C. Security Strategy for Legacy Code
- D. External Vulnerability Disclosure Response Process

Answer: B

NEW QUESTION # 116

Which secure coding best practice says to only use tested and approved components and use task-specific, built-in APIs to conduct operating system functions?

- **A. General Coding Practices**
- B. Authentication and Password Management
- C. Session Management
- D. Data Protection

Answer: A

NEW QUESTION # 117

The security team has received notice of an insecure direct object reference vulnerability in a third-party component library that could result in remote code execution. The component library was replaced and is no longer being used within the application. How should the organization remediate this vulnerability?

- **A. Ensure Auditing and Logging Is Enabled on All Servers**

- **B. Enforce the Removal of Unused Dependencies**
- C. Ensure Sensitive Information Is Not Logged
- D. Access to Configuration Files Is Limited to Administrators

Answer: B

NEW QUESTION # 118

Which threat modeling step collects exploitable weaknesses within the product?

- A. Set the scope
- B. Analyze the target
- **C. Identify and document threats**
- D. Rate threats

Answer: C

Explanation:

The step in threat modeling that involves collecting exploitable weaknesses within the product is Identify and document threats. This step is crucial as it directly addresses the identification of potential security issues that could be exploited. It involves a detailed examination of the system to uncover vulnerabilities that could be targeted by threats.

: The OWASP Foundation's Threat Modeling Process outlines a structured approach where identifying and documenting threats is a key step¹. Additionally, various sources on threat modeling agree that the identification of threats is a fundamental aspect of the process, as it allows for the subsequent analysis and mitigation of these threats²³⁴⁵.

NEW QUESTION # 119

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