

# Free PDF Secure-Software-Design - High Pass-Rate WGU Secure Software Design (KEO1) Exam Test Voucher

**WGU D487 PRE-ASSESSMENT: SECURE  
SOFTWARE DESIGN (KEO1) (PKEO)  
Exam Questions With Revised Correct  
Answers  
BEST UPDATED!!**

- 1) What are the 11 security design principles? - ANSWER   
Least privilege, Separation of duties, Defense in depth, fail-safe, Economy of mechanism, Complete mediation, Open Design, Least common mechanism, Psychological acceptability, Weakest link, Leveraging existing components
- 2) Software Security Maturity Models and the SDL  
- ANSWER  OWASP's Open Software Assurance Maturity Model (OpenSAMM)  
Building Security in Maturity Model
- 3) OpenSAMM: Governance  
- ANSWER  is centered on the processes and activities related to how an organization manages overall software development activities. More specifically, this includes

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## WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>• <b>Large Scale Software System Design:</b> 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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Design Pattern Selection and Implementation:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Reliable and Secure Software Systems:</b> 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.</li> </ul>

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### WGUSecure Software Design (KEO1) Exam Sample Questions (Q46-Q51):

#### NEW QUESTION # 46

Which type of threat exists when an attacker can intercept and manipulate form data after the user clicks the save button but before the request is posted to the API?

- A. Spoofing
- **B. Tampering**
- C. Elevation of privilege
- D. Information disclosure

**Answer: B**

#### NEW QUESTION # 47

Due to positive publicity from the release of the new software product, leadership has decided that it is in the best interests of the company to become ISO 27001 compliant. ISO 27001 is the leading international standard focused on information security. Which security development life cycle deliverable is being described?

- A. Security strategy for M&A products
- B. External vulnerability disclosure response process
- C. Third-party security review
- **D. Post-release certifications**

**Answer: D**

#### NEW QUESTION # 48

Which threat modeling step collects exploitable weaknesses within the product?

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

**Answer: D**

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.

References: The OWASP Foundation's Threat Modeling Process outlines a structured approach where identifying and documenting threats is a key step<sup>1</sup>. 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 threats<sup>2345</sup>.

#### **NEW QUESTION # 49**

Which mitigation technique can be used to fight against a denial of service threat?

- A. Timestamps
- **B. Throttling**
- C. Protect secrets
- D. Digital signatures

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Throttling is a common and effective mitigation technique against Denial of Service (DoS) attacks. It limits the number of requests a user or IP can send over a certain time period, preventing resource exhaustion. This reduces the risk of overwhelming servers, which is the core issue in DoS attacks. Digital signatures (A) protect data integrity and authenticity, Protect secrets (B) secures confidential information, and Timestamps (C) help prevent replay attacks but are not direct defenses for DoS. According to NIST SP 800-61 Rev. 2 (Computer Security Incident Handling Guide) and OWASP DoS Prevention, throttling and rate limiting are standard controls to maintain availability under attack conditions.

References:

NIST SP 800-61 Revision 2 - Computer Security Incident Handling Guide

OWASP Denial of Service Prevention Cheat Sheet

Microsoft SDL - Security Controls for Availability

#### **NEW QUESTION # 50**

Company leadership has discovered an untapped revenue stream within its customer base and wants to meet with IT to share its vision for the future and determine whether to move forward.

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

- A. Requirements
- B. Implementation
- C. Design
- **D. Planning**

**Answer: D**

Explanation:

The phase being described is the Planning phase of the SDLC. This initial stage involves gathering business requirements and evaluating the feasibility of the project. It's when the company leadership would typically meet with IT and other stakeholders to share visions for the future, discuss potential revenue streams, and determine the project's direction before moving forward with development. This phase is crucial for setting the groundwork for all subsequent phases of the SDLC.

References:

\* The Software Development Life Cycle (SDLC): 7 Phases and 5 Models<sup>1</sup>.

- \* What Is the Software Development Life Cycle? SDLC Explained2.
- \* Software Development Life Cycle (SDLC) Phases & Models3.

## NEW QUESTION # 51

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