

# 100% Pass Secure-Software-Design - Certification WGUSecure Software Design (KEO1) Exam Questions

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## 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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## WGUSecure Software Design (KEO1) Exam Questions

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>Software Architecture and Design: This module covers topics in designing, analyzing, and managing large scale software systems. Students will learn various architecture types, how to select and implement appropriate design patterns, and how to build well structured, reliable, and secure software systems.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>Software Architecture Types: This section of the exam measures skills of Software Architects and covers various architecture types used in large scale software systems. Learners explore different architectural models and frameworks that guide system design decisions. The content addresses how to identify and evaluate architectural patterns that best fit specific project requirements and organizational needs.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

>> Certification Secure-Software-Design Questions <<

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### **WGUSecure Software Design (KEO1) Exam Sample Questions (Q97-Q102):**

#### **NEW QUESTION # 97**

The product team has been tasked with updating the user interface (UI). They will change the layout and also add restrictions to field lengths and what data will be accepted.

Which secure coding practice is this?

- A. Data protection
- B. Access control
- C. Communication security
- D. **Input validation**

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

This is an example of Input validation, which involves ensuring all user inputs conform to expected formats, lengths, and content before processing. Restricting field lengths and validating accepted data types prevents injection attacks, buffer overflows, and improper data handling. Access control (B) restricts user permissions, communication security (C) protects data in transit, and data

protection (D) focuses on confidentiality and integrity of stored data. OWASP Secure Coding Practices and Microsoft SDL emphasize rigorous input validation as a first line of defense against many vulnerabilities.

References:

OWASP Secure Coding Practices - Input Validation

Microsoft SDL Secure Coding Guidelines

NIST SP 800-53: Security and Privacy Controls for Information Systems

### NEW QUESTION # 98

Which secure coding best practice says to ensure that buffers are allocated correctly and at the right size, that input strings are truncated to a reasonable length, and that resources, connections, objects, and file handles are destroyed once the application no longer needs them?

- A. Input Validation
- **B. Memory Management**
- C. Session Management
- D. Data Protection

**Answer: B**

### NEW QUESTION # 99

What refers to the review of software source code by developers other than the original coders to try to identify oversights, mistakes, assumptions, a lack of knowledge, or even experience?

- A. User acceptance testing
- B. Fault injection
- C. Dynamic code review
- **D. Manual peer review**

**Answer: D**

Explanation:

Manual peer review refers to the systematic examination of software source code by developers other than the original author. This practice is recognized as a valuable tool for reducing software defects and improving the quality of software projects. It involves developers inspecting the code to find and fix mistakes overlooked in the initial development phase, which enhances both the overall quality of software and the developers' skills.

Peer code review is less formal and more "lightweight" than the code inspections performed in the past, and it provides benefits such as knowledge transfer, increased team awareness, and creation of alternative solutions to problems.

References:

\* Expectations, Outcomes, and Challenges Of Modern Code Review1

\* Introduction to Software Engineering/Quality/Code Review2

\* Software Security during Modern Code Review: The Developer's Perspective3

### NEW QUESTION # 100

What is an advantage of using the Agile development methodology?

- A. The overall plan fits very neatly into a Gantt chart so a project manager can easily view the project timeline.
- **B. Customer satisfaction is improved through rapid and continuous delivery of useful software.**
- C. Each stage is clearly defined, making it easier to assign clear roles to teams and departments who feed into the project.
- D. There is much less predictability throughout the project regarding deliverables.

**Answer: B**

### NEW QUESTION # 101

The organization is moving from a waterfall to an agile software development methodology, so the software security group must adapt the security development life cycle as well. They have decided to break out security requirements and deliverables to fit better in the iterative life cycle by defining every-sprint requirements, one- time requirements, bucket requirements, and final security review

requirements.

Which type of requirement states that the team must identify primary security and privacy contacts?

- A. Bucket requirement
- B. Final security review requirement
- C. One-time requirement
- D. Every-sprint requirement

**Answer: A**

Explanation:

Bucket requirements are ongoing requirements that do not need to be addressed every sprint but must be completed before project completion. Identifying primary security and privacy contacts is a bucket requirement because it is a one-time, essential task that supports security governance throughout the project lifecycle. Every-sprint requirements (D) are repeated tasks for each sprint, one-time requirements (C) are tasks performed once usually early in the project, and final security review (B) occurs at project end. Agile SDL adaptation recommendations by Microsoft SDL and OWASP emphasize categorizing security tasks to fit iterative delivery, with bucket requirements ensuring important but non-iterative activities are not overlooked.

References:

Microsoft SDL Agile Adaptation Guidelines

OWASP Secure SDLC in Agile

NIST SP 800-64: Security Considerations in Agile Development

## NEW QUESTION # 102

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