

# Secure-Software-Design Study Tool, Valid Secure-Software-Design Test Dumps

## Secure Software Design (D487) In-Depth Study Guide

Subtitle: Based on Practical Core Software Security - A Reference Framework

Format: Chapter-by-Chapter Breakdown with Exam Readiness, Terminology, Threat Models, Deliverables, and Real-World Applications

### Chapter 1: Introduction

- Differences between software security and application security
- Secure code vs quality code
- CIA Triad with definitions, examples, and violations
- Threat modeling overview (STRIDE, DREAD, DFDs, trust boundaries)
- Attack surface validation: entry/exit points, expansion via feature additions

### Chapter 2: The Security Development Lifecycle (SDL)

- SDL vs SDLC distinction
- SDL phases mapped to SDLC phases
- Maturity models: BSIMM vs OpenSAMM
- ISO/IEC 27034 standard
- Tools and talent (SAST, DAST, manual reviews, SDL roles)
- Principle of Least Privilege and privacy integration
- Metrics: vulnerabilities caught pre-release, time to patch, training coverage

### Chapter 3: Security Assessment (SDL Phase A1)

- Discovery session outcomes and stakeholders
- PIA planning, privacy questions, initial risk classification
- SDL Project Outline, Product Risk Profile, Threat Profile
- Metrics Template deliverable

### Chapter 4: Architecture (SDL Phase A2)

- Policy compliance analysis with internal/external controls
- Threat modeling artifacts (DFDs, STRIDE threat mapping, data classification)
- Architecture Threat Analysis and mitigation planning
- Open-source evaluation (licensing, vulnerability exposure)
- Privacy information gathering

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

Topic	Details
Topic 1	<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>
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>• <b>Software System Management:</b> 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>
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### WGUSecure Software Design (KEO1) Exam Sample Questions (Q69-Q74):

#### NEW QUESTION # 69

Which software control test examines the internal logical structures of a program and steps through the code line by line to analyze the program for potential errors?

- A. Dynamic testing
- **B. White box testing**
- C. Black box testing
- D. Reasonableness testing

**Answer: B**

Explanation:

White box testing, also known as clear box testing, glass box testing, transparent box testing, and structural testing, is a method of software testing where the internal structure, design, and coding of the software are tested to verify the flow of input-output and to improve the design, usability, and security. It involves looking at the structures that are internal to the system, with the tester having knowledge of the internal workings of the product. This type of testing is concerned with examining the internal logical structures of the program and is typically performed by stepping through the code line by line to analyze the program for potential errors, which aligns with the description of the control test in question.

References:

- \* Control Structure Testing - GeeksforGeeks1
- \* What is White Box Testing? - BrowserStack2
- \* Software Testing Strategies Chapter 18 - IIT3

#### NEW QUESTION # 70

Which category classifies identified threats that do not have defenses in place and expose the application to exploits?

- A. Partially mitigated threat
- B. Fully mitigated threat
- C. Threat profile
- **D. Unmitigated threats**

**Answer: D**

Explanation:

The category that classifies identified threats with no defenses in place, exposing the application to exploits, is Unmitigated Threats. This term refers to vulnerabilities for which no countermeasures or mitigations have been implemented. These threats are critical because they represent actual weaknesses that attackers can exploit. In the context of secure software design, it's essential to identify these threats early in the SDLC to ensure that appropriate security controls can be designed and implemented to protect against

them.

References:

- \* Taxonomy of Cyber Threats to Application Security and Applicable Defenses<sup>1</sup>.
- \* OWASP Foundation's Threat Modeling Process<sup>2</sup>.
- \* Mitigating Persistent Application Security Threats<sup>3</sup>.

### NEW QUESTION # 71

Credit card numbers are encrypted when stored in the database but are automatically decrypted when data is fetched. The testing tool intercepted the GET response, and testers were able to view credit card numbers as clear text.

How should the organization remediate this vulnerability?

- **A. Ensure all data in transit is encrypted**
- B. Never cache sensitive data
- C. Enforce role-based authorization controls in all application layers
- D. Ensure there is an audit trail for all sensitive transactions

**Answer: A**

Explanation:

The core issue here is cleartext transmission of sensitive data, and option C directly addresses this:

\* Addressing the Problem: The scenario reveals the vulnerability is the lack of encryption during data transmission (the GET response). Ensuring encryption in transit fixes this specific exploit.

\* Transport Layer Security: Encryption during transit is typically achieved through protocols like TLS (HTTPS), preventing the interception of sensitive information.

### NEW QUESTION # 72

The security team is reviewing all noncommercial software libraries used in the new product to ensure they are being used according to the legal specifications defined by the authors.

What activity of the Ship SDL phase is being performed?

- **A. Open-source licensing review**
- B. Final security review
- C. Penetration testing
- D. Policy compliance analysis

**Answer: A**

Explanation:

The activity described pertains to the review of noncommercial software libraries to ensure compliance with the legal specifications set by the authors. This is part of the open-source licensing review, which is a critical activity in the Ship phase of the Security Development Lifecycle (SDL). This review ensures that all open-source components are used in accordance with their licenses, which is essential for legal and security compliance.

: The Ship phase of the SDL includes various activities such as policy compliance review, vulnerability scanning, penetration testing, open-source licensing review, and final security and privacy reviews<sup>12</sup>. The open-source licensing review specifically addresses the legal aspects of using third-party software components<sup>2</sup>.

### NEW QUESTION # 73

The software security team prepared a detailed schedule mapping security development lifecycle phases to the type of analysis they will execute.

Which design and development deliverable aid the team prepare?

- A. Privacy implementation assessment results
- B. Updated threat modeling artifacts
- **C. Security test plans**
- D. Design security review

**Answer: C**

#### Explanation:

The deliverable that would aid a software security team in preparing a detailed schedule mapping security development lifecycle phases to the type of analysis they will execute is Security test plans. These plans are crucial as they outline the testing strategies and specific security tests that will be conducted during the development lifecycle to ensure the software meets the required security standards.

\* Security test plans are developed after the requirements and design phases and are used throughout the implementation, verification, and release phases. They include detailed instructions for security testing, criteria for success, and the types of security testing to be performed, such as static and dynamic analysis, penetration testing, and code review.

\* These plans are living documents that should be updated as new threats are identified and as the project evolves. They ensure that all team members understand the security goals, the risks, and the measures that need to be taken to mitigate those risks.

\* By having a well-defined security test plan, the team can ensure that security is not an afterthought but is integrated into every phase of the software development lifecycle, thus producing more secure software.

References: The importance of security test plans in the software development lifecycle is supported by best practices and guidelines from sources such as Microsoft's Security Development Lifecycle<sup>1</sup> and Snyk's Secure Software Development Life Cycle principles<sup>2</sup>.

#### NEW QUESTION # 74

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