

Secure-Software-Design試験の準備方法 | 真実的な Secure-Software-Design模試エンジン試験 | 権威のある WGUSecure Software Design (KEO1) Exam日本語試験 情報

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

2025年Xhs1991の最新Secure-Software-Design PDFダンプおよび Secure-Software-Design試験エンジンの無料共有: <https://drive.google.com/open?id=1vkK3qKMZEySBLbOt3Pa9qvZk2wnjDUEo>

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WGU Secure-Software-Design 認定試験の出題範囲:

トピック	出題範囲
トピック 1	• 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.

トピック 2	• 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.
トピック 3	• 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.
トピック 4	• 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.
トピック 5	• Reliable and Secure Software Systems: 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.

>> Secure-Software-Design模試エンジン <<

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WGUSecure Software Design (KEO1) Exam 認定 Secure-Software-Design 試験問題 (Q86-Q91):

質問 # 86

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

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

正解: D

質問 # 87

Which DREAD category is based on how easily a threat exploit can be found?

- A. Affected Users
- B. Reproducibility
- **C. Discoverability**
- D. Damage Potential

正解: C

質問 # 88

The security testing team received a report from one of the contracted penetration testing vendors that details a flaw discovered in the login component of the new software product, along with a recommended fix.

Which phase of the penetration testing process is the team in?

- A. Evaluate and plan
- B. Identify
- C. Assess
- D. Deploy

正解: C

解説:

Comprehensive and Detailed Explanation From Exact Extract:

The team is in the Assess phase of penetration testing. This phase involves actively testing the software, identifying vulnerabilities, and documenting findings with recommendations. Receiving a report detailing a discovered flaw confirms that testing has been conducted and results are being evaluated. The Identify (A) phase involves defining scope and targets, Evaluate and Plan (B) covers planning test activities, and Deploy (C) refers to executing the test environment setup. The OWASP Penetration Testing Guide and NIST SP 800-

115 clarify that assessment includes vulnerability discovery and documentation.

References:

OWASP Penetration Testing Guide

NIST SP 800-115 Technical Guide to Information Security Testing and Assessment Microsoft SDL Security Testing Guidance

質問 # 89

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

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

正解: C

解説:

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 Defenses¹.

* OWASP Foundation's Threat Modeling Process².

* Mitigating Persistent Application Security Threats³.

質問 # 90

What is a best practice of secure coding?

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

正解: C

解説:

References: The OWASP Secure Coding Practices guide emphasizes the importance of implementing secure coding standards, which include robust session management¹. Additionally, Snyk's secure coding practices highlight the significance of access control, including authentication and authorization, as fundamental to protecting a system². These resources align with the concept that effective session management is a best practice in secure coding.

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