

WGU - High-quality Secure-Software-Design - WGUSecure Software Design (KEO1) Exam Exam Price

WGU D487 Pre-Assessment: Secure Software Design (KEO1) (PKEO) | 60+ (2025–2026 A+ Verified) Exam Q&A

The **WGU D487 Pre-Assessment for Secure Software Design (KEO1 / PKEO)** provides an updated and comprehensive review of core security concepts tested in the 2025–2026 WGU assessment. This verified Q&A resource includes **60+ expertly crafted and validated questions with detailed solutions** to help learners master secure coding and system protection principles.

Introduction

This latest pre-assessment pack is designed to strengthen your understanding of key topics such as **software vulnerabilities, encryption standards, authentication mechanisms, threat modeling, security frameworks, and secure system architecture**. Each question is paired with a clear explanation to promote concept retention and exam readiness.

Answer Format

All correct answers are highlighted in **bold green**, with detailed reasoning that enhances comprehension of **secure software design principles** and **risk mitigation strategies**.

Questions 1–60

1. What is the primary objective of secure software design?

- a) To maximize performance
- b) To minimize security vulnerabilities and protect system integrity
- c) To reduce development time
- d) To simplify user interfaces

b) To minimize security vulnerabilities and protect system integrity

Rationale: Secure software design focuses on reducing vulnerabilities, ensuring confidentiality, integrity, and availability through secure coding and architecture practices.

2. Which of the following is a common software vulnerability listed in the OWASP Top 10?

- a) Excessive logging
- b) Injection attacks
- c) Over-optimization
- d) Code duplication

b) Injection attacks

Rationale: Injection attacks (e.g., SQL, command injection) are a top OWASP vulnerability, allowing attackers to execute malicious code via unsanitized input.

3. What does the STRIDE model help identify in threat modeling?

- a) Software performance issues

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q92-Q97):

NEW QUESTION # 92

Developers have finished coding, and changes have been peer-reviewed. Features have been deployed to a pre- production environment so that analysts may verify that the product is working as expected.

Which phase of the Software Development Life Cycle (SDLC) is being described?

- A. Design
- B. Deployment
- C. Requirements
- D. **Testing**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The scenario describes a stage where the developed features are deployed to a pre-production environment for verification by analysts. This aligns with the Testing phase of the Software Development Life Cycle (SDLC).

In the Testing phase, the system undergoes various evaluations to ensure it meets the specified requirements and functions correctly. This includes deploying the software in an environment that simulates production to identify and rectify defects before the actual deployment. The primary goal is to validate the software's quality and performance.

According to the SDLC framework, after the development (coding) phase, the next step is Testing, where the system is rigorously evaluated. This phase is crucial to detect issues that may not have been apparent during development and to ensure that the software operates as intended in a controlled setting before live deployment.

References:

* Software Development Life Cycle Documentation

NEW QUESTION # 93

Which threat modeling step collects exploitable weaknesses within the product?

- A. Rate threats
- B. Analyze the target
- C. Set the scope
- 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.

: 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 # 94

What are the eight phases of the software development lifecycle (SDLC)?

- A. Plan, gather requirements, identify attack surface, design, write code, perform code reviews, test, deploy

- B. Planning, requirements, design, implementation, testing, deployment, maintenance, end of life
- C. Planning, security analysis, requirement analysis, design, implementation, threat mitigation, testing, maintenance
- D. Gather requirements, prototype, perform threat modeling, write code, test, user acceptance testing, deploy, maintain

Answer: B

NEW QUESTION # 95

The scrum team decided that before any change can be merged and tested, it must be looked at by the lead developer, who will ensure accepted coding patterns are being followed and that the code meets the team's quality standards. Which category of secure software best practices is the team performing?

- A. Penetration testing
- B. Code review
- C. Architecture analysis
- D. Training

Answer: A

Explanation:

The practice described is Code review, which is a part of secure software development best practices. Code reviews are conducted to ensure that the code adheres to accepted coding patterns and meets the team's quality standards. This process involves the examination of source code by a person or a group other than the author to identify bugs, security vulnerabilities, and ensure compliance with coding standards.

References:

- * Fundamental Practices for Secure Software Development - SAFECode1.
- * Secure Software Development Framework | CSRC2.
- * Secure Software Development Best Practices - Hyperproof3.

NEW QUESTION # 96

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

Answer: B

NEW QUESTION # 97

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