

WGU Secure-Software-Design Practice Test - Quick Tips To Pass (2026)



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The WGU sector is an ever-evolving and rapidly growing industry that is crucial in shaping our lives today. With the growing demand for skilled WGU professionals, obtaining WGU Secure Software Design (KEO1) Exam (Secure-Software-Design) certification exam has become increasingly important for those who are looking to advance their careers and stay competitive in the job market. Individuals who hold WGU Secure Software Design (KEO1) Exam (Secure-Software-Design) certification exam demonstrate to their employers and clients that they have the knowledge and skills necessary to succeed in the Secure-Software-Design exam.

WGU Secure-Software-Design Exam Syllabus Topics:

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

Topic 2	<ul style="list-style-type: none"> • 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.
Topic 3	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • 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.

>> Exam Secure-Software-Design Overview <<

100% Pass 2026 WGU Secure-Software-Design: WGU Secure Software Design (KEO1) Exam First-grade Exam Overview

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WGU Secure Software Design (KEO1) Exam Sample Questions (Q34-Q39):

NEW QUESTION # 34

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. Black box testing
- B. White box testing
- C. Dynamic 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 # 35

After being notified of a vulnerability in the company's online payment system, the Product Security Incident Response Team (PSIRT) was unable to recreate the vulnerability in a testing lab.

What is the response team's next step?

- A. Determine the Severity of the Vulnerability
- B. Identify Resources and Schedule the Fix
- C. Determine How the Reporter Was Able to Create the Vulnerability
- D. Notify the Reporter That the Case Is Going to Be Closed

Answer: C

NEW QUESTION # 36

Which secure coding best practice ensures sensitive information is not disclosed in any responses to users, authorized or unauthorized?

- A. Input validation
- B. System configuration
- C. Authentication and password management
- D. Error handling and logging

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

Preventing the disclosure of sensitive information in application responses is primarily addressed by implementing proper Error Handling and Logging practices.

When errors occur, applications may inadvertently reveal sensitive data through detailed error messages. To mitigate this risk, error handling mechanisms should be designed to provide generic error messages to end- users, while detailed error information is logged securely for internal review. This approach ensures that sensitive information, such as system configurations, stack traces, or personal data, is not exposed to unauthorized users.

The OWASP Secure Coding Practices emphasize the importance of error handling and logging to prevent information leakage:

"Ensure that error messages displayed to users do not reveal sensitive information that can be exploited by attackers." References:

* OWASP Secure Coding Practices - Quick Reference Guide

NEW QUESTION # 37

What is a best practice of secure coding?

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

Answer: B

Explanation:

Session management is a core component of secure coding, which involves maintaining the state of a user's interaction with a system. Proper session management can help protect against various security vulnerabilities, such as session hijacking and session fixation attacks. It is essential for ensuring that user data is handled securely throughout an application's workflow.

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.

NEW QUESTION # 38

While performing functional testing of the new product from a shared machine, a QA analyst closed their browser window but did not logout of the application. A different QA analyst accessed the application an hour later and was not prompted to login. They then noticed the previous analyst was still logged into the application.

How should existing security controls be adjusted to prevent this in the future?

- A. Ensure strong password policies are enforced
- B. Ensure no sensitive information is stored in plain text in cookies
- C. Ensure role-based access control is enforced for access to all resources

- **D. Ensure user sessions timeout after short intervals**

Answer: D

Explanation:

The issue described involves a session management vulnerability where the user's session remains active even after the browser window is closed, allowing another user on the same machine to access the application without logging in. To prevent this security risk, it's essential to adjust the session management controls to include an automatic timeout feature. This means that after a period of inactivity, or when the browser window is closed, the session should automatically expire, requiring a new login to access the application.

This adjustment ensures that even if a user forgets to log out, their session won't remain active indefinitely, reducing the risk of unauthorized access.

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Secure SDLC practices emphasize the importance of security at every stage of the software development life cycle, including the implementation of proper session management controls¹².

Best practices for access control in security highlight the significance of managing session timeouts to prevent unauthorized access³.

Industry standards and guidelines often recommend session timeouts as a critical security control to protect against unauthorized access⁴.

NEW QUESTION # 39

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