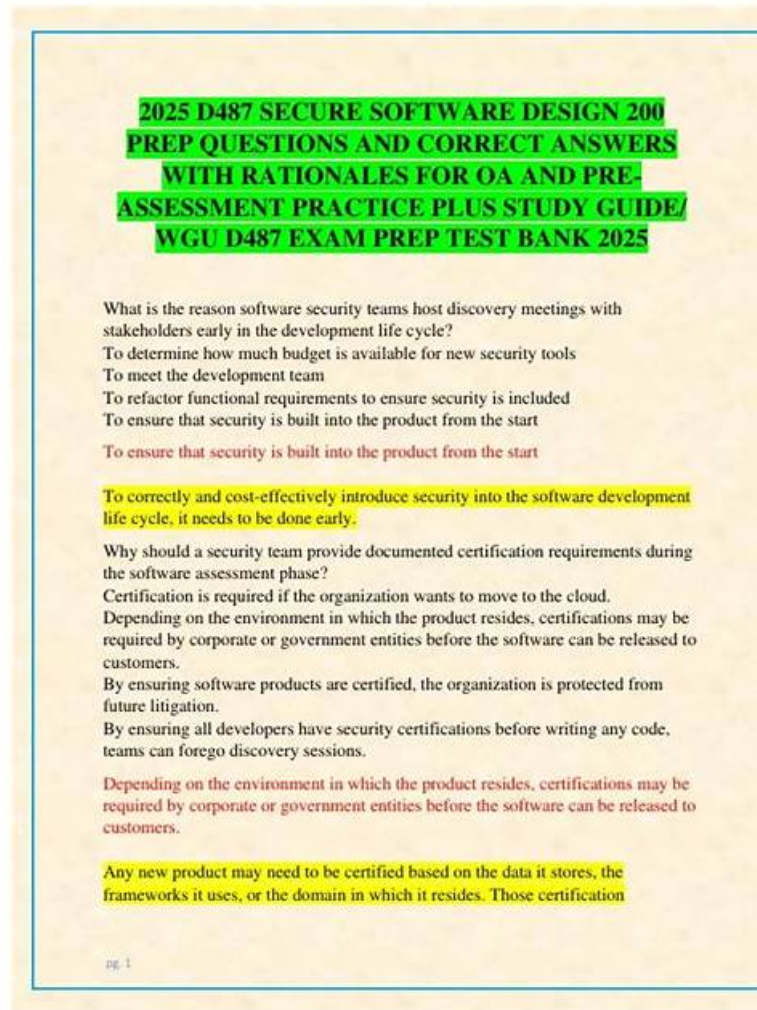


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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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.

Topic 2	<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 3	<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 4	<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.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q106-Q111):

NEW QUESTION # 106

Which secure coding best practice says to assume all incoming data should be considered untrusted and should be validated to ensure the system only accepts valid data?

- **A. Input validation**
- B. Session management
- C. General coding practices
- D. System configuration

Answer: A

Explanation:

The secure coding best practice that emphasizes treating all incoming data as untrusted and subjecting it to validation is known as input validation. This practice is crucial for ensuring that a system only processes valid, clean data, thereby preventing many types of vulnerabilities, such as SQL injection, cross-site scripting (XSS), and buffer overflows, which can arise from maliciously crafted inputs.

* Input validation involves verifying that the data meets certain criteria before it is processed by the system. This includes checking for the correct data type, length, format, and range. It also involves sanitizing the data to ensure that it does not contain any potentially harmful elements that could lead to security breaches.

* A centralized input validation routine is recommended for the entire application, which helps in maintaining consistency and effectiveness in the validation process. This routine should be implemented on a trusted system, typically server-side, to prevent tampering or bypassing of the validation logic.

* It's important to classify all data sources into trusted and untrusted categories and to apply rigorous validation to all data from untrusted sources, such as user input, databases, file streams, and network interfaces.

By adhering to the input validation best practice, developers can significantly reduce the attack surface of their applications and protect against a wide array of common security threats.

References: The verified answer is supported by the Secure Coding Practices outlined by the OWASP Foundation¹ and other reputable sources such as Coding Dojo² and CERT Secure Coding³.

NEW QUESTION # 107

Which DKEAD category has a risk rating based on the threat exploit's potential level of harm?

- A. Exploitability
- B. Affected users
- C. Damage potential
- D. Reproducibility

Answer: C

Explanation:

The DKEAD category that has a risk rating based on the threat exploit's potential level of harm is Damage potential. This category assesses the total damage or impact that a threat could cause if it is exploited by an attacker. The risk rating in this category is determined by evaluating the severity of the potential damage, which could range from information disclosure to complete system destruction or loss of system availability.

References:

- * DREAD Threat Modeling¹
- * OWASP Risk Rating Methodology²
- * DREAD Threat Modeling: An Introduction to Qualitative Risk Analysis³

NEW QUESTION # 108

Which secure software design principle assumes attackers have the source code and specifications of the product?

- A. Open Design
- B. Total Mediation
- C. Separation of Privileges
- D. Psychological Acceptability

Answer: A

NEW QUESTION # 109

Which type of security analysis is limited by the fact that a significant time investment of a highly skilled team member is required?

- A. Manual code review
- B. Fuzz testing
- C. Dynamic code analysis
- D. Static code analysis

Answer: A

Explanation:

Manual code review is a type of security analysis that requires a significant time investment from a highly skilled team member. This process involves a detailed and thorough examination of the source code to identify security vulnerabilities that automated tools might miss. It is labor-intensive because it relies on the expertise of the reviewer to understand the context, logic, and potential security implications of the code.

Unlike automated methods like static or dynamic code analysis, manual code review demands a deep understanding of the codebase, which can be time-consuming and requires a high level of skill and experience.

References: The information provided here is based on industry best practices and standards for secure software design and development, as well as my understanding of security analysis methodologies^{1,2}.

NEW QUESTION # 110

Which type of manual code review technique is being used when the reviewer starts at an input control and traces its value through the application to each of the value's outputs?

- A. Data flow analysis
- B. Risk analysis

- Answer: A**

Data flow analysis is a manual code review technique where the reviewer traces the path of data from its entry point in the software (input control) through its processing and manipulation within the application, to its exit points (outputs). This technique is used to ensure that the data is handled securely throughout its lifecycle within the application and to identify any potential security vulnerabilities that may arise from improper data handling or processing¹²

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