

# WGU Secure-Software-Design Exam & Secure-Software-Design German

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## WGU D487 – Secure Software Design Exam | 2025/2026 Actual Exam (Version A & B) | 100% Correct Verified Answers | Graded A+

### Section 1: Introduction

This comprehensive guide includes both Version A and Version B of the WGU D487 Secure Software Design Exam, tailored to the 2025/2026 certification cycle. It contains detailed, accurate questions and verified answers for each version, reflecting the most current curriculum standards in secure software architecture, threat mitigation, SDLC integration, and compliance frameworks. The content is designed to help students prepare confidently and succeed with distinction—each question is paired with a brief rationale for clarity and mastery.

### Section 2: Exam Content and Responses

#### Version A

1 **Question:** What is the primary goal of secure software design?

- A. Maximize software performance
- B. Protect applications from security threats
- C. Reduce development time
- D. Enhance user interface

**Correct Answer:** B. Protect applications from security threats

**Rationale:** Secure design focuses on mitigating vulnerabilities throughout the SDLC.

2 **Question:** Which SDLC phase is most critical for integrating security?

- A. Testing
- B. Requirements gathering
- C. Deployment
- D. Maintenance

**Correct Answer:** B. Requirements gathering

**Rationale:** Early integration in requirements ensures security is built-in, per NIST guidelines.

3 **Question:** What is the purpose of threat modeling in secure software design?

- A. Optimize code efficiency
- B. Identify potential security risks
- C. Increase system uptime
- D. Reduce hardware costs

**Correct Answer:** B. Identify potential security risks

**Rationale:** Threat modeling, as per OWASP, maps risks to mitigate them proactively.

4 **Question:** Which principle advocates minimizing attack surfaces?

- A. Least privilege

2025 Die neuesten It-Pruefung Secure-Software-Design PDF-Versionen Prüfungsfragen und Secure-Software-Design Fragen und Antworten sind kostenlos verfügbar: <https://drive.google.com/open?id=1KyFn5IxJUJ8HoORSa9p2AUGbowC0IDx>

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## WGU Secure-Software-Design Prüfungsplan:

Thema	Einzelheiten
Thema 1	<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>
Thema 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Thema 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Thema 4	<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>

## WGU Secure Software Design (KEO1) Exam Secure-Software-Design Prüfungsfragen mit Lösungen (Q91-Q96):

### 91. Frage

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

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

**Antwort: C**

**Begründung:**

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.

: 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<sup>12</sup>.

### 92. Frage

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 no sensitive information is stored in plain text in cookies
- **B. Ensure user sessions timeout after short intervals**
- C. Ensure role-based access control is enforced for access to all resources
- D. Ensure strong password policies are enforced

**Antwort: B**

Begründung:

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.

References:

\* Secure SDLC practices emphasize the importance of security at every stage of the software development life cycle, including the implementation of proper session management controls<sup>12</sup>.

\* Best practices for access control in security highlight the significance of managing session timeouts to prevent unauthorized access<sup>3</sup>.

\* Industry standards and guidelines often recommend session timeouts as a critical security control to protect against unauthorized access<sup>4</sup>.

### 93. Frage

What is an advantage of using the Agile development methodology?

- **A. Customer satisfaction is improved through rapid and continuous delivery of useful software.**
- B. Each stage is clearly defined, making it easier to assign clear roles to teams and departments who feed into the project.
- C. The overall plan fits very neatly into a Gantt chart so a project manager can easily view the project timeline.
- D. There is much less predictability throughout the project regarding deliverables.

**Antwort: A**

### 94. Frage

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

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

**Antwort: D**

Begründung:

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 Modeling<sup>1</sup>

\* OWASP Risk Rating Methodology<sup>2</sup>

\* DREAD Threat Modeling: An Introduction to Qualitative Risk Analysis<sup>3</sup>

### 95. Frage

A product team, consisting of a Scrum Master, a Business Analyst, two Developers, and a Quality Assurance Tester, are on a video

call with the Product Owner. The team is reviewing a list of work items to determine how many they feel can be added to their backlog and completed within the next two-week iteration.

Which Scrum ceremony is the team participating in?

- A. Sprint Review
- B. Sprint Retrospective
- **C. Sprint Planning**
- D. Daily Scrum

**Antwort: C**

## 96. Frage

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