

DUMPS ARENA

ISTQB Certified Tester Foundation Level - Automotive Software Tester

iSQI CTFL-AuT

Version Demo

Total Demo Questions: 5

Total Premium Questions: 40

Buy Premium PDF

<https://dumpsarena.co>

sales@dumpsarena.co

sales@dumpsarena.co
dumpsarena.co

QUESTION NO: 1

Which constraints does a SiL test environment have?

- A. Numerous internal signals of the test object can be stimulated or observed.
- B. The test execution can be paused anytime for further analyses.
- C. Electric error scenarios can be tested early.
- D. In the SiL environment the simulation time is generally shorter than the real time.

ANSWER: D**Explanation:**

This is due to the fact that the system needs to be able to process the input data and calculate the output data in a short period of time. This constraint ensures that the system can respond quickly and accurately to various stimuli.

QUESTION NO: 2

According to Automotive SPICE ®3.x, which statement regarding the requirements for a test strategy is correct?

- A. The test logs should be automated on all test levels as much as possible to increase the comparability of the test results and reduce the effort for the test execution.
- B. In the regression testing strategy, methods must be defined for an impact analysis and the selection of appropriate test cases for regression testing
- C. The test report must describe the test process including the identification of menaces and dependencies from other processes.
- D. The test log must include methods for test case creation, for the selection of test cases, for the creation of test data and for the test execution

ANSWER: B**Explanation:**

According to the Automotive SPICE ®3.x, the test strategy should include methods for analyzing the impact of changes in the system, and the selection of appropriate test cases for regression testing. The test strategy should also define methods for test case creation, for the selection of test cases, for the creation of test data, and for the test execution.

QUESTION NO: 3

Which statement regarding AUTOSAR is NOT TRUE?

- A. One of the objectives of AUTOSAR is to support the development of reliable systems.

- B. One of the objectives of AUTOSAR is the replicability of software components between different vehicle platforms and between different partners.
- C. One of the objectives of AUTOSAR is cooperation regarding the standards and the implementation.
- D. One of the objectives of AUTOSAR is the definition of a maintainable as well as adjustable open architecture.

ANSWER: D

Explanation:

According to the ISTQB Certified Tester, Automotive Software Tester (CT-AUT) study guide, the objectives of AUTOSAR (Automotive Open System Architecture) include the definition of a maintainable and adjustable open architecture, the development of reliable systems, the replicability of software components between different vehicle platforms and between different partners, and cooperation regarding the standards and the implementation.

QUESTION NO: 4

Which statement regarding the contribution of the tester to a safety culture is true?

- A. The tester performs the hazard analysis and the risk assessment for the product at the beginning of the project.
- B. The tester always takes the overall context of the product development into account when she/he executes their tasks
- C. In systems that could potentially lead to physical injury or damage to the health of people the tester analyses potential hazards.
- D. The tester creates the hardware-software interface and provides this document to the safety manager

ANSWER: B

Explanation:

The tester always takes the overall context of the product development into account when she/he executes their tasks. This means that the tester is responsible for ensuring that testing is performed in a way that takes into consideration the wider context of the product development, such as safety issues, system reliability, usability and other factors. This helps to ensure that the product is safe and reliable for the end user. Source: ISTQB Certified Tester, Automotive Software Tester (CT-AUT) Study Guide.

QUESTION NO: 5

Which statement regarding the influence of the ASIL on test techniques, test types and test depths is true?

- A. Depending on the determined ASIL, ISO 26262 recommends the execution of different test design techniques and test types, it differentiates between five different degrees of recommendation: e.g not at all suitable (♦♦). recommended (-).
- B. As the ASIL is a characteristic of the overall product, it ONLY influences the test of the item in combination with the other items of the vehicle
- C. Depending on the determined ASIL, ISO 26262 recommends the execution of different test design techniques and test types. Given this, the standard for higher ASILs usually recommends more extensive and detailed measures.

D. With ASIL A, the tester can choose the test design techniques and the test types freely. For ASIL B, C and ISO 26262 recommends the execution of different measures or combinations of measures

ANSWER: C

Explanation:

Given this, the standard for higher ASILs usually recommends more extensive and detailed measures. According to the ISTQB Certified Tester, Automotive Software Tester (CT-AUT) study guide, the Automotive Safety Integrity Level (ASIL) is a key factor in determining the necessary testing techniques and test types. Depending on the determined ASIL, the ISO 26262 standard recommends different test design techniques and test types, as well as more extensive and detailed measures for higher ASILs. Additionally, the standard also differentiates between five different degrees of recommendation, ranging from "not at all suitable" to "recommended".