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CTFL-AuT Exam

Automotive Software Tester

Questions & Answers

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Question: 1

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: A

Explanation:

Question: 2

Which statement regarding the operating conditions and comparison of test environments is true?

- A. To test in a MIL test environment, a full system specification is necessary.
- B. As tests for MIL and SIL take place closer to the test object, the test basis must have a higher degree of detail than in HIL.
- C. The costs for debugging are higher for a SI test environment than for a MIL test environment.
- D. The proximity to reality in a MIL test environment is higher than in a SI test environment

Answer: A

Explanation:

Question: 3

ISO 26262 recognizes several context factors which influence the selection of testing techniques. Which statement is correct? Please choose the BEST POSSIBLE answer.

- A. All testing techniques are always applied to one test basis. The specific techniques, e.g. equivalence partition analysis, however, can always be applied.
- B. ISO 26262 recommends specific testing techniques depending on the ASIL level. Furthermore, the current state of technology must be considered
- C. The risk assessment provides insights regarding the risks, whose causes will then be tested intensively (independent of the testing technique).
- D. For the selection and the applicability of the test techniques, the test basis is important, but not the test level.

Answer: B

Explanation:

Question: 4

Which of the following options describes a combination of typical parts of a HiL environment?

- A. Breakout box, Software-Compiler, real parts
- B. Test case simulator, rest bus simulation, power supply
- C. Electric error simulation, signal processing, processor simulation
- D. Power supply, real time capable computer electric error simulation

Answer: A

Explanation:

Question: 5

In the release process, which of the following work products. Information and documents are the typical output of the tester?

- A. Tested test objects
- B. Insulation recommendation
- C. Non-detected defects
- D. Change request

Answer: C

Explanation:

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