TM12 Q&As

ISTQB-BCS Certified Tester Advanced Level- Test Manager (2012)

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QUESTION 1

Assume you are the Test Manager in charge of independent testing for avionics applications.

You are in charge of testing for a project to implement three different CSCI (Computer Software Configuration Item):

a BOOT-X CSCI that must be certified at level B of the DO-178B standard a DIAG-X CSCI that must be certified at level C of the DO-178B standard a DRIV-X CSCI that must be certified at level A of the DO-178B standard

These are three different software modules written in C language to run on a specific hardware platform.

You have been asked to select a single code coverage tool to perform the mandatory code coverage measurements, in order to meet the structural coverage criteria prescribed by the DO-178B standard. This tool must be qualified as a verification tool under DO-178B.

Since there are significant budget constraints to purchase this tool, you are evaluating an open-source tool that is able to provide different types of code coverage. This tool meets perfectly your technical needs in terms of the programming language and the specific hardware platform (it supports also the specific C-compiler).

The source code of the tool is available.

Your team could easily customize the tool to meet the project needs. This tool is not qualified as a verification tool under the DO-178B.

Which of the following are the three main concerns related to that open-source tool selection? (Choose three.)

A. Does the tool support all the types of code coverage required from the three levels A, B, C of the DO178B standard?

B. Does the tool have a good general usability?

C. What are the costs to qualify the tool as a verification tool under the DO-178B?

D. Is the installation procedure of the tool easy?

E. Does the tool require a system with more than 4GB of RAM memory?

F. Is the licensing scheme of the tool compatible with the confidentiality needs of the avionics company?

Correct Answer: ACF

QUESTION 2

Your test team consists of four members (Mary, Bob, Mark, Dave) with different interpersonal skills.

The following skills assessment spreadsheet shows the characteristics of the team members with respect to a list of interpersonal-skills (for each characteristic only the member with the highest level of that characteristic is indicated and marked with `X\\'): On the next project a member of your test team will have to perform some routine tasks requiring collaboration with other teams.

Interpersonal Skill	Mary	Bob	Mark	Dave
Individualistic		X		
Unorthodox		X		
Brilliant, creative, strong intellectual power		X		
Disciplined, dutiful	X			
Hard Working	X			
Communicative	X			
Polite	X			
Collaborative	X			
Dynamic				X
Open-minded				X
Result-oriented				X
Fights idleness and inefficiency, exerts pressure				X
Single-minded			X	
Self-starting			X	
Dedicated and uncommunicative			X	

Who in your test team would you expect to be most suitable at doing these tasks?

A. Mary

B. Bob

C. Mark

D. Dave

Correct Answer: A

QUESTION 3

The following is the unique "critical" quality risk item that has been identified:

CR-RSK-1. The GUI of the application might accept non-integer values for the input field designed to get the number of bottles from the user.

Test analysis for system testing has just begun and the following test conditions have been identified:

TC-SEL-2. Test the selection of the package sizes TC-SEL-4. Test wrong numbers of bottles for an order TC-CR-RSK-1. Test the accepted values from the input field designed to get the number of bottles from the user

Assume that you have used traceability to determine the logical test cases that cover all the requirements and the single risk item identified in that scenario.

Which of the following is a positive logical test that is complete and correct, and covers the REQ-SEL-4 requirement?

A. Select a 6-bottles package, then try to insert 5 bottles; verify that no error messages are displayed.

B. Select a 6-bottles package, then try to insert 7 bottles; verify that no error messages are displayed.

C. Select a 6-bottles package, then try to insert 7 bottles; verify that the "Invalid number of bottles" message is displayed.

D. Select a 6-bottles package, then try to insert 7 bottles.

Correct Answer: C

QUESTION 4

Which of the following statements, about the test reporting activities for a project adopting an iterative lifecycle model with very short iterations (e.g. two weeks iterations), is correct?

A. Test reporting activities can\\'t be influenced by the use of an iterative lifecycle model with short iterations.

B. Test reporting activities are not important for projects adopting an iterative lifecycle model with short iterations.

C. Test reporting activities are less important for projects adopting an iterative life cycle model with short iterations. They should be performed at the end of the last iteration.

D. Test reporting activities are still important with an iterative lifecycle. The reports can be used to conduct post-iteration review sessions before starting with the next iteration.

Correct Answer: D

QUESTION 5

You are the Test Manager of a new project aimed at developing a software system that must be certified at level B of the DO-178B standard. The project will follow a V-Model software development life cycle and it will have four formal levels of testing: component, integration, system and acceptance testing.

You must produce the test plan documentation for this project by providing an adequate coordination across the four levels of testing in order to assure auditability.

Which of the following answers would you expect to best describe how to organize the test plan?

A. Produce a single master test plan that covers in detail all four levels, describing the particular activities for all test levels.

B. Produce a master test plan that covers three levels (component, integration, system test) and a separate acceptance test plan.

C. Produce a master test plan describing the relationship between the four levels, and four separate detailed level test plans, one for each level.

D. Produce four separate detailed level test plans, one for each level, without a master test plan.

Correct Answer: C

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