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Advanced Test Manager

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QUESTION 1

Consider the following skills assessment spreadsheet for your test team (consisting of four team members):

This spreadsheet has three sections: technical expertise, testing skills and professionalism.

The skill levels for each skill area for both the "technical expertise" and "testing skills" sections have been rated on a four-point scale:

- E (Expert): indicates that a person has expert knowledge and experience in the skill area
- B (Beginner): indicates that a person has some knowledge and experience in the skill area but he/she is not autonomous
- W (Wants to learn): indicates that a person has no knowledge or experience in the skill area but he/she wants to learn that skill
- NI (Not Interested): indicates that a person has no knowledge or experience in the skill area and he/she is not interested to learn that skill

The skill levels for each skill area of the "professionalism" section have been rated on a three point scale (H=High, M=Medium, L=Low).

You are using this skills assessment spreadsheet in order to define a training development plan for your test team. Your objective is to fill the skill gaps by having at least a team member rated as an expert for each skill identified for the "technical expertise" and "testing skills" sections, and with the ability to train the other team members.

Considering the budget constraints you can send only one person to a training course.

Skills	Alex	Robert	John	Mark
Technical Expertise				
Programming - C / VB	E	E	E	NI
Programming - C++, Java	E	E	B	NI
Shell Scripting	E	E	B	NI
Testing Skills				
Test Planning	B	B	E	E
Test Design - Black Box	E	E	E	B
Test Design - White Box	E	E	NI	NI
Test Automation	E	E	E	NI
Performance Testing - Scripting	W	W	NI	NI
Performance Testing - Execution	W	W	NI	NI
Test Status Reporting and Metrics	E	E	E	E
Professionalism				
Test Team Building/Cross-Training	H	L	H	H
Oral Communication	H	M	M	M

Based only on the given information, which of the following answers would you expect to be the best option to achieve



your objective?

K4 3 credits

- A. Send Robert to a performance testing training course
- B. Send Alex to a performance testing training course
- C. Send John to a performance testing training course
- D. Send Mark to a test automation training course

Correct Answer: B

QUESTION 2

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?

K4 3 credits (2 credits out of 3 credits correct, 1 credit point)

- 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?

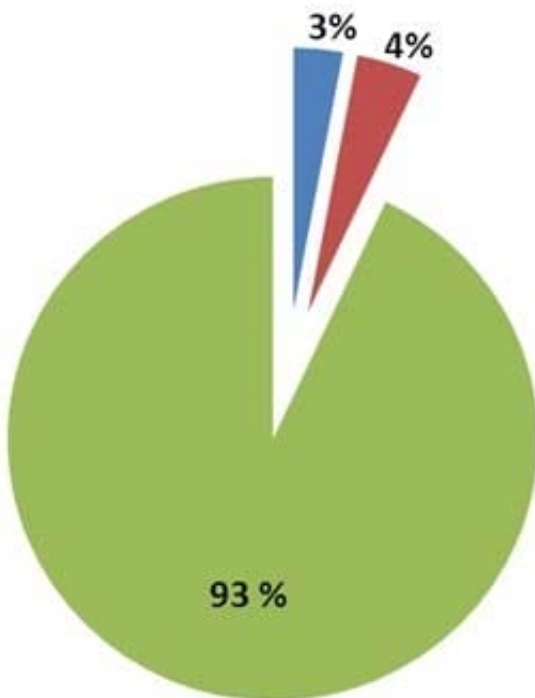


- D. Is the installation procedure of the tool easy?
- E. Does the tool require a system with more than 4GB of RAM memory?
- F. Is the licensing scheme of the tool compatible with the confidentiality needs of the avionics company?

Correct Answer: ACF

QUESTION 3

After the presentation, you are asked to explain the chart. Assume you have applied a full risk-based testing strategy.



Which of the following answers would you expect to best describe the pie chart?

K4 3 credits

- A. All the risk items have been covered with tests. No more risk items remain to test
- B. According to the full risk-based testing strategy applied, it is very likely that the highest- risk items, tests and bugs remain in the blue and red areas. Therefore, it is very risky to release the application
- C. Only the lowest-risk items, tests and bugs should remain in the blue and red areas. Therefore the application can be released at any time subject to management of the items identified in those areas
- D. 97 percent of the risk items has been tested. No open bugs or test failures remain. Only 3 percent of risk items remains to be covered by the remaining test

Correct Answer: C



QUESTION 4

Which of the following statements best describes an appropriate approach for managing exploratory testing?

Number of correct responses: 1

K2 1 credit

- A. Define very detailed mission statements, which allow testing work to be broken into sessions of up to 10 minutes duration in which testing is guided by these mission statements
- B. Break the testing work in 30 to 120 minutes sessions and use properly defined mission statements consisting of two or three sentences to guide testing during these sessions
- C. Define very generic charters to drive exploratory testing sessions of 2 days where testers are completely free to decide what to test
- D. Exploratory testing should not be managed because such testing is inherently unmanageable and not measurable

Correct Answer: B

QUESTION 5

Which of the following is an example of the test closure activity indicated as "lessons learned"? K2 1 credit

- A. Archive all the test results of the acceptance testing phase
- B. Deliver a list of the open defects of a software product released into production to the service desk team
- C. Participate in a meeting at the end of a project aimed at better managing the events and problems of future projects
- D. Deliver an automated regression test suite, used during the system test phase of a software product released into production, to the team responsible for maintenance testing

Correct Answer: C

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