



# ATM<sup>Q&As</sup>

Advanced Test Manager

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### QUESTION 1

Assume you are the Test Manager for a new software release of an e-commerce application.

The server farm consists of six servers providing different capabilities. Each capability is provided through a set of web services.

The requirements specification document contains several SLAs (Service Level Agreements) like the following:

SLA-001: 99.5 percent of all transactions shall have a response time less than five seconds under a load of up-to 5000 concurrent users

The main objective is to assure that all the SLAs specified in the requirements specification document will be met before system release. You decide to apply a risk-based testing strategy and an early risk analysis confirms that performance is high risk. You can count on a well-written requirements specification and on a model of the system behavior under various load levels produced by the system architect.

Which of the following test activities would you expect to be the less important ones to achieve the test objectives in this scenario?

K4 3 credits

- A. Perform unit performance testing for each single web service
- B. Monitor the SLAs after the system has been released into the production environment
- C. Perform system performance testing, consisting of several performance testing sessions, to verify if all the SLAs have been met
- D. Perform static performance testing by reviewing the architectural model of the system under various load levels

Correct Answer: B

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### QUESTION 2

Which of the following factors could negatively influence a review? K2 1 credit

- A. Include people with the adequate level of knowledge, both technical and procedural
- B. Include people who are detail-oriented and scrupulous at finding issues
- C. Include as many people as possible in order to have more viewpoints about possible problems on the item under review
- D. Include people able to contribute to a clear, thoughtful, constructive and objective discussion

Correct Answer: C

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### QUESTION 3

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
<b>Technical Expertise</b>				
Programming - C / VB	E	E	E	NI
Programming - C++, Java	E	E	B	NI
Shell Scripting	E	E	B	NI
<b>Testing Skills</b>				
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
<b>Professionalism</b>				
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 4

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)

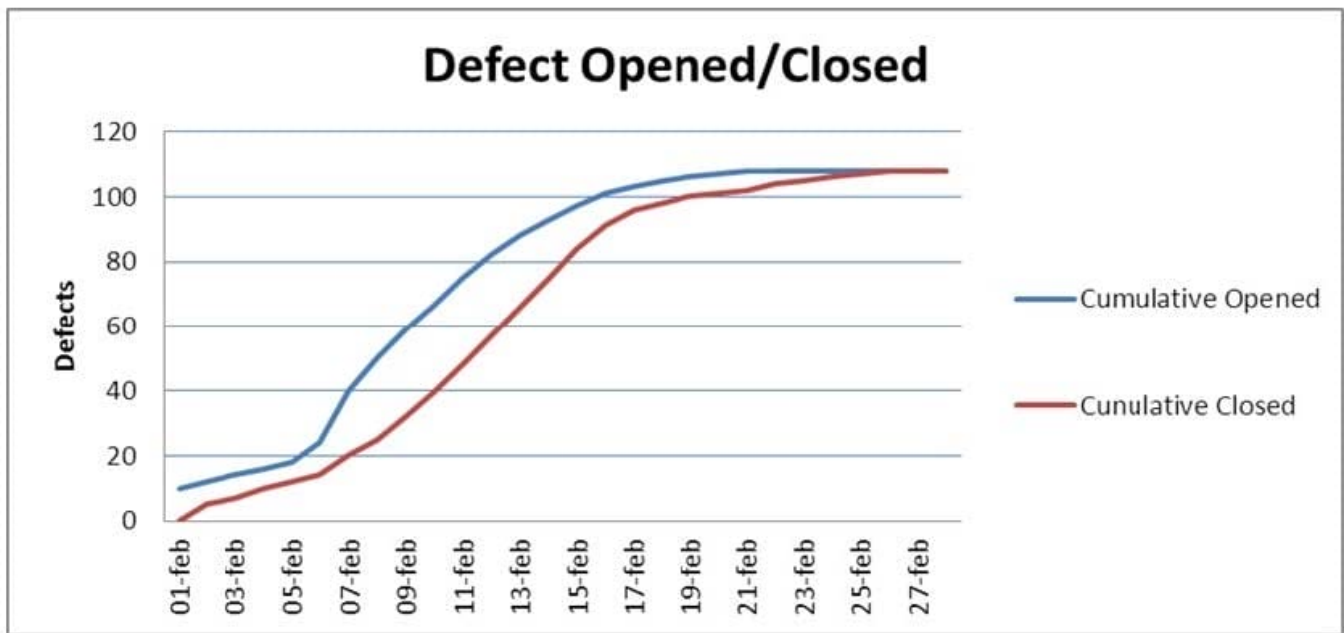
- A. Does the tool support all the types of code coverage required from the three levels A, B, C of the DO178B standard?
- B. Does the tool have a good general usability?
- C. What are the costs to qualify the tool as a verification tool under the DO-178B?
- D. Is the installation procedure of the tool 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 5

The following chart plots the cumulative number of defects opened against the cumulative number of defects closed during system testing of a software product.



Which of the following statements is true? K2 1 credit

- A. The chart indicates that you have plenty of problems left to find
- B. The chart can be used to reveal test progress problems
- C. The chart seems to indicate that the defect management process is not working well
- D. The chart seems to indicate that the defect management process is working well

Correct Answer: D

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