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

Advanced Test Manager

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**QUESTION 1**

You are performing a quality risk analysis for a CSCI (Computer Software Configuration Item) used to implement a CBIT (Continuous Built-In Test) module of a safety-critical system.

During the quality risk analysis you are trying to identify the ways in which failures of the CBIT module can occur, for each of them trying to determine the potential causes and likely effects, and the risk level (calculated as the product of three factors: severity, occurrence and detection).

Which of the following risk analysis techniques are you working with?

K2 1 credit

A. A lightweight product risk analysis technique

B. Failure Mode and Effect Analysis

C. Wide Band Delphi

D. Cost of Exposure

Correct Answer: B

**QUESTION 2**

You are the Test Manager of a project that adopts a V-model with four formal levels of testinG. unit, integration, system and acceptance testing.

On this project reviews have been conducted for each development phase prior to testing, which is to say that reviews of requirements, functional specification, high-level design, low- level design and code have been performed prior to testing.

Assume that no requirements defects have been reported after the release of the product.

Which TWO of the following metrics do you need in order to evaluate the requirements reviews in terms of phase containment effectiveness? K3 2 credits

A. Number of defects found during the requirements review

B. Total number of defects attributable to requirements found during unit, integration, system and acceptance testing

C. Total number of defects found during functional specification review, high-level design review, low-level design review, code review, unit testing, integration testing, system testing and acceptance testing

D. Time to conduct the requirements review

E. Total number of defects attributable to requirements, found during functional specification review, high

level design review, low-level design review, code review, unit testing, integration testing, system testing and acceptance testing

Correct Answer: AE

**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 |
|---|---|---|---|---|
| **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

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**QUESTION 4**

Consider an information system of a Pay-Tv company based on a SOA architecture.

The integrated system currently consists of three core systems:

-

a CRM (Customer Relationship Management) system

-

a BRM (Billing and Revenue Management) system

-

a CAS (Conditional Access System) system all of them communicating with SOA Middleware.

You have been asked to manage the testing activities for the integration of two additional off-the-shelf systems from two different vendors: a SMS (Short Message Service) server and an IVR (Interactive Voice Response) system. Assume that there is a high likelihood that the two off-the-shelf systems will be low-quality and that you have a clear proof that the testing performed by the two vendors on their systems has been unsystematic and unprofessional. This obviously leads to higher quality risk for the overall integrated system.

You are the Test Manager of this project. Your main goal is to plan for testing activities to mitigate this risk.

Which of the following answers best describes the test activities (assuming it is possible to perform all of them) you should plan for?

K4 3 credits

A. You should plan for an informal and minimal acceptance test of the two off-the-shelf systems and then a single end-to-end test of the overall integrated system

B. You should directly plan for a single end-to-end test focused on end-to-end tests of the overall integrated system without an acceptance test of the two off-the-shelf systems

C. You should plan for two levels: a system integration test and an end-to-end test of the overall integrated system

D. You should plan for adequate re-testing of both the systems followed by a system integration test and an end-to-end test of the overall integrated system

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Correct Answer: D

**QUESTION 5**

Assume you are currently working on a project developing a system where functional requirements are

very well specified. Unfortunately non-functional requirements do almost not exist.

You are the Test Manager. You have to choose a technique for test selection that allows testing of nonfunctional characteristics, especially reliability.

Which of the following techniques for test selection do you expect being most useful in this scenario? K2 1 credit

A. A model-based technique based on the creation of operational profiles

B. Ambiguity reviews

C. Test condition analysis D. Cause-effect graphing

Correct Answer: A

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