

CT-TAE Dumps

Certified Tester Test Automation Engineer

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NEW QUESTION 1

What is NOT a factor in considering when you are asked to ensure an effective transition from manual to automated tests?

- A. Complexity to automate the manual test cases
- B. Correctness of test data and test cases
- C. The look and feel of the SUT
- D. The controllability of the SUT

Answer: C

NEW QUESTION 2

You have executed an automated test suite for a product that was released into production. Although all the tests passed, there was a major failure in production in an area that was covered well by your automated tests.

You have run the automated tests again and one of the tests is now failing and this is directly related to the production defect that was raised. You decide to run the automated test suite again on the same version of the SUT and the test now passes.

What SHOULD you do now to verify the validity of the automated tests?

- A. Remove the intermittently failing test from the test suite and investigate the reason why the test sometimes passes and sometimes fails.
- B. Check that the production defect that was reported was an actual defect
- C. Run the automated test suite again and if the test now passes - do nothing
- D. Reference: https://www.researchgate.net/publication/341396240_Intermittently_Failing_Tests_in_the_Embedded_Systems_Domain

Answer: A

NEW QUESTION 3

You identified a suitable project to pilot an automation tool and planned and conducted a pilot. The pilot has been successful and tool is being deployed within your organization, with a plan to increase tool use by the one project at a time. During this rollout some test processes will be changed slightly to gain additional benefits from using the tool.

In the pilot project, a small set of manual tests were automated for the first time. You are currently monitoring the test automation efficiency and this reveals that the automation regime for the tests is not yet mature.

Which of the following statements is TRUE?

- A. The approach used for deployed this tool is aligned to the standard success factor for deployment
- B. The pilot project should have been critical so that maximum benefits were delivered
- C. The target defined for the project was inappropriate, because the automation regime for the automated tests at the end of the pilot is not yet mature.
- D. The test process should be radically changed to gain additional benefits from using the tool.

Answer: A

NEW QUESTION 4

A SUT has an existing automated test suite.

Which of the following statements relating to the introduction of new features in the SUT is TRUE?

- A. Automated tests are not affected by the introduction of a new feature and running them against the new SUT is a waste of effort
- B. The introduction of a new feature could require updates or additions to the testware components
- C. The test automation engineer should work with the business analysts to ensure the new feature is testable
- D. It is generally more difficult to automate test cases for a new feature as the development has not yet started

Answer: B

NEW QUESTION 5

You are working on a TAS for standalone application. The automated tests are developed based on a automation framework that allows interaction with GUI elements using an object orientated API. The GUI elements include menus, buttons, radio buttons, text toolbars and their properties.

Whilst automating a test, you have discovered that the GUI elements of some third party components are not identifiable by the automated tool you are using.

Which of the following is the FIRST step that you take to investigate this issue?

- A. Verify the testability support with the providers of the third party components
- B. Verify whether the GUI identification depends on the browser.
- C. Adopt an approach that uses the coordinates of the GUI elements instead
- D. Verify whether naming standards for variables and have been defined for the current automation solution

Answer: A

NEW QUESTION 6

You are reviewing the testability of your SUT.

Which of the following BEST refers to the characteristic of OBSERVABILITY?

- A. The ability of the SUT to perform its intended function for a specified period of time
- B. The ability to exercise the SUT by entering inputs, triggering events and invoking methods
- C. The ability of the SUT to prevent unauthorized access to its components or data.
- D. The ability to identify states, outputs, intermediate result and error messages in the SUT

Answer: D

NEW QUESTION 7

You are implementing a TAS for a system that has been live for over three years, using a hybrid waterfall and agile lifecycle. Live updates are made on a monthly basis.

There is no test team, with developers designing and executing unit and integration tests with some degree of automation and business analysts designing and executing manual tests at the system level. No formal test process exists, although the system has proved relatively stable for most of the time. Unfortunately, the last two monthly releases were problematic with regression defects found in production. Your priority is the automation of functional regression tests at the system level, the budget for this has been approved by project stakeholders. The Business Analysts have identified which test cases are most suitable for regression. You must use the organisation's long standing commercial automation tool which has passed a proof of concept in the platform for the system in question. Which of the following suitability criteria needs the MOST attention for the TAS?

- A. Technical planning in support of ROI analysis
- B. Frequency of use.
- C. Compatibility and tool support
- D. Maturity of the test process

Answer: C

Explanation:

Reference: <https://www.softwaretestinghelp.com/guide-to-functional-testing/>

NEW QUESTION 8

Which of the following attributes should NOT be included in a test execution report associated with a suite of automated tests?

- A. Summary of the test execution results
- B. System/Application under test and its version
- C. Defect clusters identified during test execution
- D. Environment in which the tests have been executed

Answer: C

NEW QUESTION 9

A defect in a SUT has been resolved and validated by an automated defect re-test in the current release of the software. This retest has now been added to the automated regression test suite.

Which statement BEST describes a reason why this defect could re-occur in future releases?

- A. Automated defect confirmation testing is not effective at confirming that the resolved defect will continue to work in future releases
- B. The configuration management process does not properly control the synchronization between software archives
- C. The automated regression test suite is not run consistently for future releases.
- D. The automated regression test suite has a narrower scope of functionality

Answer: B

NEW QUESTION 10

You are implementing test automation for a project that has a business critical application. A test execution tool is being used to run automated regression tests. The results from the test execution tool are very important and need to be 100% accurate.

You want to merge the test automation results with the test management system that also records the manual test results so that managers can make informed decisions about the progress quickly.

Which layer of the gTAA will be used to ensure the proper reporting occurs and the interfaces to the test management system are handled?

- A. The reporting layer
- B. The logging layer
- C. The execution layer
- D. The adaptation layer

Answer: A

NEW QUESTION 10

Which of the following is NOT a technical design consideration for a TAA?

- A. The number of users for the SUT
- B. Availability of interfaces for the SUT to be testable
- C. Standards and Legal requirements, e.g data privacy
- D. Data used by the SUT, e.g configuration, users

Answer: A

NEW QUESTION 11

New features have been added for the current release of a SUT.

Which action would NOT be appropriate for the TAE to perform when evaluating the impact on the TAS?

- A. Gather feedback from the Business Analysts to determine if the current TAS will meet the needs of the new features.
- B. Review existing keywords to see if they need to be modified.
- C. Run existing automated tests against the updated SUT to verify and record any changes to their correct operation.
- D. Evaluate compatibility with existing test tools and, where necessary, identify alternative solutions.

Answer: A

NEW QUESTION 16

You are working as a TAE for a company who are re-designing their website. The new website provides information for customers and there are two minor features being developed:

- 1) Request a newsletter
- 2) Ability to contact the organisation with a question or comment

The website must be "mobile friendly" and available on all major web browsers.

You have been tasked to provide an automated solution for web browsers only and to concentrate on the two minor features.

What would be a KEY challenge with automation in this context?

- A. A low level of intrusion is likely from use of existing UI elements, but depending on the solution this might be more complex than a higher level of intrusion.
- B. Because there is a high level of intrusion there may be many false alarms.
- C. Automation might not be possible on the mobile devices.
- D. The benefits of automation might not be achieved for many years due to the complexities of the SUT and automation solution.

Answer: D

Explanation:

Reference: <https://www.britannica.com/technology/automation/Advantages-and-disadvantages-of-automation>

NEW QUESTION 17

You have investigated a new tool which enables the modelling of the SUT and can then generate test cases either manually or automatically. You have convinced your managers that the best way forward is to conduct a pilot project for this tool. You need to select a project to use for the pilot. You have the choice of the following projects:

Project A: A two-year project that is critical to the business and is currently in the requirement phase. This project is for a new e-commerce web site and is mostly being developed "in-house" although the payment system is being developed and delivered by a 3rd party provider.

Project B: A safety critical application for software to drive and park cars.

Project C: An upgrade to an important HR timesheet tracking application that will be available on a desktop and mobile application. This is a 1-month project developed in-house.

Project D The payment system from project A. Which project would be BEST for the pilot?

- A. Project A because it is a large project and has high visibility and is in the requirement phase.
- B. Project B because it is a safety critical system and has high visibility.
- C. Project C because it is a short, low priority project but is important.
- D. Project D because it is a small part of a larger project and will help show the tool's capabilities.

Answer: D

NEW QUESTION 18

You are implementing test automation for a project and you want to be able to generate test cases automatically using a series of test design tools which use a variety of test design techniques such as decision tables, pairwise testing and boundary value analysis.

You also want to generate test data automatically which can then be used by the tests. Initially these tests will be run manually to verify their correctness and ultimately you want

to include them in the test execution tool so that they can run unattended.

Which layer of the gTAA will be used to support the specification of the test cases and preparation of the test data?

- A. The generation layer
- B. The definition layer
- C. The execution layer
- D. The adaptation layer

Answer: B

Explanation:

Reference: <https://www.slideshare.net/jannatindia/chapter-3-the-generic-test-automation-architecture>

NEW QUESTION 19

You have been asked to automate a set of functional tests at system Test level via the CLI

of the SUT for the first release of a software system. The automated tests will be delivered to the learn in change of maintenance testing, who will use them for part of the regression testing. They have the following requirements.

- * 1. The automated tests must be as fast and cheap to maintain as possible
- * 2. The cost of adding new automated tests must be as low as possible
- * 3. The automated tests must have a high level of independence from the tool itself

Which of the following scripting techniques would be MOST suitable?

- A. Data-driven scripting
- B. Keyword-driven scripting
- C. Linear scripting
- D. Structure scripting

Answer: D

NEW QUESTION 24

Assume that you are the TAE responsible for the correct functioning of a TAS, deployed in a test environment that consists of a few machines running the same version of the operating system. The TAS has been working and stable since its deployment, it has been used to run an automated test suite consisting of many similar automated test. The infrastructure team is planning to update the operating system on these machines by installing a new the service pack for security reasons. Since the vendor of the operating system assurance full backward compatibility, the infrastructure team assurance that there will be no impacts on the functioning of the TAS.

What is the BEST approach to confirm the correct functioning of the TAS in this scenario?

- A. Verify the behavior of the automated tests by running a small tests, then gradually run the remaining tests to confirm the correct functioning of the whole automated test suite.
- B. Make sure that the infrastructure team has completed installing the service pack on the machines where SUT is running, then run the whole automated test suite to verify its behavior
- C. Verify the behavior of the whole automated test suite by running all the automated tests
- D. Do not run any tests because you can immediately confirm the correct functioning of the automated test suite

Answer: A

NEW QUESTION 25

Which of the following is considered a disadvantage of test automation?

- A. Automated exploratory testing is difficult to implement
- B. Test automation can be a distraction from the objective of finding bugs
- C. Tests are more likely to have operator errors.
- D. Slower feedback on the quality of the system.

Answer: D

Explanation:

Reference: <https://blog.qasource.com/resources/are-there-any-disadvantages-of-automation-testing-in-quality-assurance>

NEW QUESTION 28

Which of the following statements does NOT describe good practice for maintaining the TAS?

- A. The TAS must run in the development environment because development and programming knowledge are required for its maintainability
- B. The TAS must be under configuration management, along with the test suite, the testware artefacts and the test environment in which it runs
- C. The TAS must separate the test scripts from the environment in which it runs and from the associated harnesses and artefacts
- D. The TAS must consist of components that can be easily replaced without affecting the overall behavior of the TAS itself

Answer: A

NEW QUESTION 32

You are evaluating several test modelling tools and are wanting to automatically generate test cases within the tool where many different combinations of input data are created.

You are then wanting to export the test cases into a csv file which can then be read by a functional test execution tool using a data-driven or keyword-driven scripting method.

You have investigated several tools and there is only one tool that provides all the necessary features defined by your team with the exception of the export facility.

It does not provide an export into either .xls or .csv formats.

What would be the BEST next step regarding the selection of this tool?

- A. Consider another tool that is more "fit for purpose" and has all the features required.
- B. Explore the possibility of creating your own export facility.
- C. Ask the vendor and use forums to see if a solution is available or going to be available in the future.
- D. Purchase this tool and generate the .csv file manually.

Answer: C

NEW QUESTION 33

In order to achieve re-use of a TAS, where SHOULD the design for reuse occur?

- A. At the code level
- B. At the framework level.
- C. At the TAS level
- D. At the TAA level

Answer: C

NEW QUESTION 34

Your project is transitioning from manual to automated testing. You have decided to implement a pilot project so that lessons learned can inform future time estimates and schedules.

Which two of the following represent the types of test cases that are MOST suited to a test automation pilot project?

- a) High added value test cases that require little effort to automate.
- b) Test that are run infrequently as these will be simpler to automate
- c) Reliability test cases that can show added value soon
- d) Technically challenging test cases to provide the best validation of manual test conversion
- e) Tests that are least important to the business as these are safer to trial

- A. a and b
- B. a and c
- C. b and d
- D. c and e

Answer: B

Explanation:

Reference: <https://www.perfecto.io/blog/types-of-test-cases-to-automate>

NEW QUESTION 37

You are working as a TAE for a company who have been using a web test execution tool for a number of years. The tool has been used successfully on ten web applications in the past.

The company are developing a new web application which has a friendly User Interface, but the developers have used an object throughout the application which the tool is unable to recognise. As a result, you have no way of capturing the object or verifying the contents using the automation tool.

What is the first thing you should do about this problem?

- A. See if the application can be run on a desktop and if the object can be recognised on the desktop by the tool.
- B. Investigate whether the object can be recognised by other test execution tools in the market
- C. Ask the developers to remove the object and replace it with some text fields
- D. Ask the developers if they can change the object to something that can be recognised by the tool

Answer: B

Explanation:

Reference: <https://www.softwaretestinghelp.com/web-application-testing/>

NEW QUESTION 38

You have been asked to implement test automation for a project that is not meeting its deadlines. After further analysis you discover that the manual testers are not able to keep up with the new feature testing because the regression testing is taking 75% of their time. As a result, the new features are being released with many defects and customers are complaining about the quality.

Given this information, what metric SHOULD you be tracking to show the value of test automation for this project?

- A. Percentage of code covered by the test automation.
- B. Equivalent Manual Test Effort for the automated tests.
- C. Number of defects found by test automation.
- D. Percentage of builds accepted/rejected by the automated tests.

Answer: B

Explanation:

Reference: <https://blog.testproject.io/2019/12/04/how-to-measure-the-value-of-your-test-automation/>

NEW QUESTION 40

What represents good practice when automating a manual regression test suite?

- A. Test data shared between tests should, where feasible, be stored and accessed from a single source to avoid duplication or introduction of error.
- B. All existing manual tests should be decomposed into several smaller automated tests to reduce functional overlap.
- C. Remove inter-dependencies between tests to reduce automation failures and costly error analysis.
- D. Once a manual test has been automated, execute it immediately to identify whether it operates correctly.

Answer: D

Explanation:

Reference: <https://www.softwaretestinghelp.com/manual-to-automation-testing-process-challenges/>

NEW QUESTION 45

Consider a TAS that uses a keyword-driven framework. The SUT is a web application and there is a large set of keywords available for writing the automated tests that relate to highly specific user actions linked directly to the GUI of the SUT. The automated test written with the keywords are statically analyzed by a custom tool which highlights repeated instances of identical sequence of keywords. The waiting mechanism implemented by the TAS for a webpage load is based on a synchronous sampling within a given timeout. The TAS allows checking a webpage load every seconds until a timeout value

- A. Changing the scripting approach to data-driven scripting
- B. Implementing keywords with a higher level of granularity
- C. Changing the wait mechanism to explicit hard-coded waits
- D. Establishing an error recovery process for TAS and SUT

Answer: C

NEW QUESTION 49

You have implemented a keyword-driven scripting framework, which uses a test execution tool to run the tests. This has been in use for the past year and all of the teams now use this framework as the standard approach for test execution.

The teams all work on different aspects of the SUT and they have all experienced significant benefits in the use of this scripting framework. However, on closer examination, you have discovered that there are numerous instances where the teams have the same functionality to test but are using different keywords.

One of your objectives for improvement is to create consistency among the teams. What is the BEST way to handle this situation?

- A. Move to a model-based approach to scripting where the models include the keywords.
- B. Do nothing, each team are working in isolation and they are all experiencing significant benefits in the way they are currently working.
- C. Provide each team with a set of guidelines and naming conventions for keywords.
- D. Create a central library of keywords and associated definitions for each team to use.

Answer: D

Explanation:

Reference: <https://www.scriptworks.io/blog/automation-testing-framework/>

NEW QUESTION 54

You are working on a government system called "Making Tax Digital" or MTD for short. This system is being implemented to stop manual human input error and also to reduce fraudulent behaviour from companies when submitting their tax and VAT returns.

The key concept is that registered companies will need to use government recommended 3rd party software for their accounts and book keeping. These 3rd party applications will have a direct interface into the government's main system for transactions and submissions.

You have been using a test execution tool successfully on the project so far, and have implemented a basic "capture/replay" approach to scripting.

The management have been encouraged with the automation so far, but want the following objectives to be met:

- * Test cases added easily
- * Reduction in the amount of scripts and script duplication
- * Reduction in maintenance costs

Which scripting technique would be MOST suitable in this scenario in order to meet the objectives?

- A. Linear scripting
- B. Structured scripting
- C. Data-driven scripting
- D. Keyword-driven scripting

Answer: D

Explanation:

Reference: <https://www.guru99.com/keyword-driven-testing.html>

NEW QUESTION 58

If model-based testing has been selected for the overall test automation approach for a project, how does that influence the layers of the TAA?

- A. All layers are used, but the test generation layer will be automated based on the defined model
- B. There will be no need for the execution layer
- C. No adaptation will be needed because the interfaces will be defined by the model
- D. There will be no need to design the tests for the API because those will be covered by the model

Answer: A

Explanation:

Reference: <https://www.guru99.com/automation-testing.html>

NEW QUESTION 59

You are planning the pilot for an in-house developed Test Automation solution (TAS).

Which two of the following would be important steps to take as part of the planning process?

- a) Review your organisation's current projects and identify which one would be most suitable to pilot the TAS.
- b) Ensure that the developers will provide the necessary commitment for the TAS deployment activities.
- c) Run a series of training workshops for new users of the TAS before they are asked to use it.
- d) Develop a project plan for the pilot and reserve the necessary budget and resources for its implementation.
- e) Ask the developers to provide any missing functionality during the deployment activities.

- A. a and b
- B. b and d
- C. c and d
- D. c and e

Answer: B

NEW QUESTION 62

Which of the following BEST describes why it is important to separate test definition from test execution in a TAA?

- A. It allows developing steps of the test process without being closely tied to the SUT interface.
- B. It allow choosing different paradigms (e.g event-driven) for the interaction TAS and SUT
- C. It allows specify test cases without being closely tied to the tool to run them against the SUT
- D. It allows testers to find more defects on the SUT

Answer: C

NEW QUESTION 64

What are the four horizontal layers of the gTAA?

- A. Test adaptation, test execution, test design, test definition
- B. Test generation, test execution, test definition, test APIs
- C. Test generation, test definition, test execution, test adaptation
- D. Test definition, test execution, test reporting, test adaptation

Answer: C

Explanation:

Reference: <https://www.slideshare.net/jannatindia/chapter-3-the-generic-test-automation-architecture>

NEW QUESTION 66

Consider the following example of TAS metrics. Time to execute automated tests
Speed and efficiency of TAS components Which of the following statements is TRUE?

- A. A and B are both internal TAS metrics
- B. A is an internal TAS metric and B is an external TAS metric
- C. A and b are both external TAS metric
- D. A is and external TAS metric and b is an internal TAS metric

Answer: D

NEW QUESTION 69

Consider a TAS that is going to be deployed for the first time. The TAS requires share resources and run it its own test environment. The infrastructure for the TAS has been created along with maintenance procedures. It is very unlikely the TAS will be required to work in other target Environments. There is a high-risk that when the TAS is deployed in its own test environment, a number of existing application will no longer work because of conflicts with the existing shared resources. Which of the following activities would you expect to be MOST effective at mitigating the risk associated with the first deployment of the TAS?

- A. Testing the TAS for application compatibility issues in the target environment
- B. Testing the TAS for its ability to be implemented in other target test environments.
- C. Testing the TAS for regressions due to optimization that fix non-functional issues.
- D. Testing the TAS for ITS ability to run a shared test environment

Answer: B

NEW QUESTION 71

Which of the following CORRECTLY describes how automation SHOULD be applied to confirmation testing?

- A. Confirmation tests are not good candidates for automation as they are not designed to run many times
- B. Confirmation tests should only be automated if they fail to pass on the first attempt
- C. Confirmation tests can be automated and incorporated into an automated regression suite to show whether defects that were previously fixed reoccur
- D. A confirmation test should only be automated after it has been run manually

Answer: C

NEW QUESTION 75

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