

# High Pass-Rate ISTQB CT-AI Reliable Test Bootcamp Offer You The Best Valid Exam Camp | Certified Tester AI Testing Exam



## 6 Soporte de Herramientas para Pruebas

6.1 Consideraciones sobre las Herramientas de Prueba  
6.2 Uso Efectivo de Herramientas

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## CT-AI Valid Exam Camp, CT-AI Latest Test Questions

CT-AI Exam is a ISTQB certification exam and IT professionals who have passed some ISTQB certification exams are popular in IT industry. So more and more people participate in CT-AI certification exam, but CT-AI certification exam is not very simple. If you do not have participated in a professional specialized training course, you need to spend a lot of time and effort to prepare for

the exam. But now Exams4sures can help you save a lot of your precious time and energy.

## ISTQB CT-AI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• ML Functional Performance Metrics: In this section, the topics covered include how to calculate the ML functional performance metrics from a given set of confusion matrices.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• ML: Data: This section of the exam covers explaining the activities and challenges related to data preparation. It also covers how to test datasets create an ML model and recognize how poor data quality can cause problems with the resultant ML model.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• Test Environments for AI-Based Systems: This section is about factors that differentiate the test environments for AI-based</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• Quality Characteristics for AI-Based Systems: This section covers topics covered how to explain the importance of flexibility and adaptability as characteristics of AI-based systems and describes the vitality of managing evolution for AI-based systems. It also covers how to recall the characteristics that make it difficult to use AI-based systems in safety-related applications.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>• Methods and Techniques for the Testing of AI-Based Systems: In this section, the focus is on explaining how the testing of ML systems can help prevent adversarial attacks and data poisoning.</li></ul>
Topic 6	<ul style="list-style-type: none"><li>• Using AI for Testing: In this section, the exam topics cover categorizing the AI technologies used in software testing.</li></ul>
Topic 7	<ul style="list-style-type: none"><li>• Machine Learning ML: This section includes the classification and regression as part of supervised learning, explaining the factors involved in the selection of ML algorithms, and demonstrating underfitting and overfitting.</li></ul>
Topic 8	<ul style="list-style-type: none"><li>• systems from those required for conventional systems.</li></ul>

## ISTQB Certified Tester AI Testing Exam Sample Questions (Q15-Q20):

### NEW QUESTION # 15

Which of the following decisions is BEST as a test approach for the described situation?

Choose ONE option (1 out of 4)

- A. You plan to manually execute regular regression tests of the new camera function, particularly for system tests.
- B. You execute the test cases from the old camera model at the integration test level; no further dynamic tests of the operating data pipeline are necessary.
- C. You plan experience-based testing by the entire team at the system test level to ensure that the end users are satisfied.
- D. You plan to perform reviews and exploratory data analysis of the image data sets to reduce the risk of a lack of representativeness of this data.

**Answer: C**

Explanation:

The ISTQB CT-AI syllabus emphasizes that testing AI-based systems requires cross-functional collaboration and experience-based testing when parts of the team lack domain knowledge. In this scenario, the ML expert understands ML and dataset preparation but lacks knowledge of camera system behavior, the device's operational data pipeline, and end-user workflows. The remainder of the team understands the domain and system testing but not ML. Section 4.4 - Human Factors and AI Testing and 4.3 - System Testing of AI Components highlight that when domain understanding is unevenly distributed, experience-based testing conducted by the full team (testers, developers, domain experts) is the most effective approach. This ensures that AI outputs align with actual user expectations and system behavior. Option C aligns exactly with this principle.

Option A is too limited and does not address the need to validate ML integration. Option B is incorrect because reusing old test cases overlooks AI-specific risks in the operating data pipeline. Option D is useful but focuses only on data representativeness, not system-level user validation. Therefore, Option C is the best, syllabus-aligned test approach.

### NEW QUESTION # 16

"BioSearch" is creating an AI model used for predicting cancer occurrence via examining X-Ray images. The accuracy of the model in isolation has been found to be good. However, the users of the model started complaining of the poor quality of results, especially inability to detect real cancer cases, when put to practice in the diagnosis lab, leading to stopping of the usage of the model.

A testing expert was called in to find the deficiencies in the test planning which led to the above scenario.

Which ONE of the following options would you expect to MOST likely be the reason to be discovered by the test expert?

SELECT ONE OPTION

- A. A lack of similarity between the training and testing data.
- B. The input data has not been tested for quality prior to use for testing.
- C. A lack of focus on choosing the right functional-performance metrics.
- D. A lack of focus on non-functional requirements testing.

**Answer: A**

Explanation:

The question asks which deficiency is most likely to be discovered by the test expert given the scenario of poor real-world performance despite good isolated accuracy.

\* A lack of similarity between the training and testing data (A): This is a common issue in ML where the model performs well on training data but poorly on real-world data due to a lack of representativeness in the training data. This leads to poor generalization to new, unseen data.

\* The input data has not been tested for quality prior to use for testing (B): While data quality is important, this option is less likely to be the primary reason for the described issue compared to the representativeness of training data.

\* A lack of focus on choosing the right functional-performance metrics (C): Proper metrics are crucial, but the issue described seems more related to the data mismatch rather than metric selection.

\* A lack of focus on non-functional requirements testing (D): Non-functional requirements are important, but the scenario specifically mentions issues with detecting real cancer cases, pointing more towards data issues.

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ISTQB CT-AI Syllabus Section 4.2 on Training, Validation, and Test Datasets emphasizes the importance of using representative datasets to ensure the model generalizes well to real-world data.

Sample Exam Questions document, Question #40 addresses issues related to data representativeness and model generalization.

### NEW QUESTION # 17

Consider a natural language processing (NLP) algorithm that attempts to predict the next word that you would like to type in a text message. An update to the algorithm has been created that should increase the accuracy of the predictions based on user typing patterns. The old algorithm was rated for accuracy by the users. Then, after the new update was released, the users rated the updated algorithm. A statistical test was used to compare the two versions of the algorithm to see whether or not the update should remain in place.

This is an example of what type of testing?

- A. Pairwise testing
- B. Exploratory testing
- C. A/B testing
- D. Metamorphic testing

**Answer: C**

Explanation:

The syllabus states:

"A/B testing can be used to test updates to an AI-based system where there are agreed acceptance criteria, such as ML functional performance metrics, as described in Chapter 5. A/B testing is used to compare the updated variant with the previous variant." (Reference: ISTQB CT-AI Syllabus v1.0, Section 9.4, page 68 of 99)

### NEW QUESTION # 18

Upon testing a model used to detect rotten tomatoes, the following data was observed by the test engineer, based on certain number of tomato images.

□ For this confusion matrix which combinations of values of accuracy, recall, and specificity respectively is CORRECT?

SELECT ONE OPTION

- A. 1,0.87,0.84
- B. 0.84,1,0.9
- C. 1,0.9, 0.8
- **D. 0.87,0.9, 0.84**

**Answer: D**

Explanation:

To calculate the accuracy, recall, and specificity from the confusion matrix provided, we use the following formulas:

Confusion Matrix:

Actually Rotten: 45 (True Positive), 8 (False Positive)

Actually Fresh: 5 (False Negative), 42 (True Negative)

Accuracy:

Accuracy is the proportion of true results (both true positives and true negatives) in the total population.

Formula:  $\text{Accuracy} = \frac{\text{TP} + \text{TN}}{\text{TP} + \text{TN} + \text{FP} + \text{FN}}$

Calculation:  $\text{Accuracy} = \frac{45 + 42}{45 + 42 + 8 + 5} = \frac{87}{100} = 0.87$

Recall (Sensitivity):

Recall is the proportion of true positive results in the total actual positives.

Formula:  $\text{Recall} = \frac{\text{TP}}{\text{TP} + \text{FN}}$

Calculation:  $\text{Recall} = \frac{45}{45 + 5} = \frac{45}{50} = 0.9$

Specificity:

Specificity is the proportion of true negative results in the total actual negatives.

Formula:  $\text{Specificity} = \frac{\text{TN}}{\text{TN} + \text{FP}}$

Calculation:  $\text{Specificity} = \frac{42}{42 + 8} = \frac{42}{50} = 0.84$

Therefore, the correct combinations of accuracy, recall, and specificity are 0.87, 0.9, and 0.84 respectively.

Reference:

ISTQB CT-AI Syllabus, Section 5.1, Confusion Matrix, provides detailed formulas and explanations for calculating various metrics including accuracy, recall, and specificity.

"ML Functional Performance Metrics" (ISTQB CT-AI Syllabus, Section 5).

### NEW QUESTION # 19

Which ONE of the following options represents a technology MOST TYPICALLY used to implement AI?

SELECT ONE OPTION

- A. Search engines
- **B. Genetic algorithms**
- C. Procedural programming
- D. Case control structures

**Answer: B**

Explanation:

\* Technology Most Typically Used to Implement AI: Genetic algorithms are a well-known technique used in AI. They are inspired by the process of natural selection and are used to find approximate solutions to optimization and search problems. Unlike search engines, procedural programming, or case control structures, genetic algorithms are specifically designed for evolving solutions and are commonly employed in AI implementations.

\* Reference: ISTQB\_CT-AI\_Syllabus\_v1.0, Section 1.4 AI Technologies, which identifies different technologies used to implement AI.

### NEW QUESTION # 20

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