

# CT-AI Ressourcen Prüfung - CT-AI Prüfungsguide & CT-AI Beste Fragen



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Wenn Sie nicht wissen, wie man die ISTQB CT-AI Prüfung effizienter bestehen kann. Dann werde ich Ihnen einen Vorschlag geben, nämlich eine gute Ausbildungswebsite zu wählen. Dies kann bessere Resultate bei weniger Einsatz erzielen. Unsere ExamFragen Website strebt danach, den Kandidaten alle echten Schulungsunterlagen zur ISTQB CT-AI Zertifizierungsprüfung zur Verfügung zu stellen. Die Software-Version zur ISTQB CT-AI Zertifizierungsprüfung hat eine breite Abdeckung und kann Ihnen eine große Menge Zeit und Energie ersparen.

Die Prüfungsunterlagen zur ISTQB CT-AI Zertifizierungsprüfung von ExamFragen werden von der Praxis überprüft. Wir können breite Erforschungen sowie Erfahrungen in der realen Welt bieten. Unser ExamFragen hat mehr als zehnjährige Erfahrungen über Ausbildung, und zwar Fragen und Antworten zur ISTQB CT-AI Zertifizierungsprüfung. Die Fragenkataloge zur CT-AI Zertifizierungsprüfung von ExamFragen sind die besten Schulungsunterlagen. Wir bieten Ihnen die umfassendsten Zertifizierungsfragen und Antworten und einen einjährigen kostenlosen Update-Service.

>> CT-AI Schulungsunterlagen <<

**Die neuesten CT-AI echte Prüfungsfragen, ISTQB CT-AI originale fragen**

Wollen Sie Ihre Fähigkeit beim Lernen der ISTQB CT-AI Zertifizierungsunterlagen verbessern und sich von anderen besser anerkannt? ISTQB Prüfungen helfen Ihnen, Ihre Fähigkeit zu verbessern. Wenn Sie die CT-AI Zertifizierung besitzen, können Sie Ihre Arbeit besser erledigen. Obwohl die CT-AI Prüfung sehr schwierig ist, können Sie sich nicht um die Vorbereitung der Prüfung sorgen. Nach der Nutzung der ExamFragen CT-AI Dumps können Sie die ISTQB CT-AI Prüfung zu bestehen und auch die entsprechenden Kenntnisse beherrschen.

## ISTQB CT-AI Prüfungsplan:

Thema	Einzelheiten
Thema 1	<ul style="list-style-type: none"> <li>Testing AI-Based Systems Overview: In this section, focus is given to how system specifications for AI-based systems can create challenges in testing and explain automation bias and how this affects testing.</li> </ul>
Thema 2	<ul style="list-style-type: none"> <li>Introduction to AI: This exam section covers topics such as the AI effect and how it influences the definition of AI. It covers how to distinguish between narrow AI, general AI, and super AI; moreover, the topics covered include describing how standards apply to AI-based systems.</li> </ul>
Thema 3	<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>
Thema 4	<ul style="list-style-type: none"> <li>Neural Networks and Testing: This section of the exam covers defining the structure and function of a neural network including a DNN and the different coverage measures for neural networks.</li> </ul>
Thema 5	<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>
Thema 6	<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>
Thema 7	<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>
Thema 8	<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>
Thema 9	<ul style="list-style-type: none"> <li>Testing AI-Specific Quality Characteristics: In this section, the topics covered are about the challenges in testing created by the self-learning of AI-based systems.</li> </ul>

## ISTQB Certified Tester AI Testing Exam CT-AI Prüfungsfragen mit Lösungen (Q114-Q119):

### 114. Frage

A startup company has implemented a new facial recognition system for a banking application for mobile devices. The application is intended to learn at run-time on the device to determine if the user should be granted access. It also sends feedback over the Internet to the application developers. The application deployment resulted in continuous restarts of the mobile devices.

Which of the following is the most likely cause of the failure?

- A. The training, processing, and diagnostic generation are too computationally intensive for the mobile device hardware to handle
- B. The feedback requires a physical connection and cannot be sent over the Internet
- C. Mobile operating systems cannot process machine learning algorithms
- D. The size of the application is consuming too much of the phone's storage capacity

Antwort: A

Begründung:

The syllabus highlights that on-device training and processing require considerable computational power, which may exceed the capabilities of some mobile devices:

"Self-learning and continuous learning systems require large amounts of computational power, which can impact system performance and stability if the hardware is not powerful enough." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.3, page 22 of 99)

### 115. Frage

Which ONE of the following tests is LEAST likely to be performed during the ML model testing phase?

SELECT ONE OPTION

- A. Testing the API of the service powered by the ML model.
- **B. Testing the speed of the training of the model.**
- C. Testing the accuracy of the classification model.
- D. Testing the speed of the prediction by the model.

**Antwort: B**

Begründung:

The question asks which test is least likely to be performed during the ML model testing phase. Let's consider each option:

\* Testing the accuracy of the classification model (A): Accuracy testing is a fundamental part of the ML model testing phase. It ensures that the model correctly classifies the data as intended and meets the required performance metrics.

\* Testing the API of the service powered by the ML model (B): Testing the API is crucial, especially if the ML model is deployed as part of a service. This ensures that the service integrates well with other systems and that the API performs as expected.

\* Testing the speed of the training of the model (C): This is least likely to be part of the ML model testing phase. The speed of training is more relevant during the development phase when optimizing and tuning the model. During testing, the focus is more on the model's performance and behavior rather than how quickly it was trained.

\* Testing the speed of the prediction by the model (D): Testing the speed of prediction is important to ensure that the model meets performance requirements in a production environment, especially for real-time applications.

References:

\* ISTQB CT-AI Syllabus Section 3.2 on ML Workflow and Section 5 on ML Functional Performance Metrics discuss the focus of testing during the model testing phase, which includes accuracy and prediction speed but not the training speed.

### 116. Frage

Which characteristic of AI-based systems makes it difficult to ensure they are safe (e.g., not harming humans)?

Choose ONE option (1 out of 4)

- A. Robustness
- B. Determinism
- **C. Complexity**
- D. Interpretability

**Antwort: C**

Begründung:

The ISTQB CT-AI syllabus lists several characteristics that make it difficult to ensure safety in AI-based systems. Section 2.8 - Safety and AI explicitly names the characteristics that complicate safety assurance:

complexity, non-determinism, probabilistic behavior, self-learning, lack of transparency, and lack of robustness. Among these, complexity is a core challenge because modern AI systems - particularly those using deep learning - have highly non-linear behavior, large numbers of parameters, and intricate interactions that are hard to predict.

Option B (Complexity) directly aligns with the syllabus and is therefore correct.

Option A (Determinism) is the opposite of AI behavior; AI is often non-deterministic, and determinism does not make systems unsafe.

Option C (Interpretability) does impact trust and explainability, but the syllabus positions it as a transparency challenge, not the primary difficulty in ensuring safety. Option D (Robustness) is a desired quality, not a reason safety is hard; a lack of robustness would be a challenge, not robustness itself.

Thus, complexity best reflects the syllabus' explicit safety-related difficulty.

### 117. Frage

Which of the following is a problem with AI-generated test cases that are generated from the requirements?

- A. They are slow and will usually not be able to execute in the time allowed.
- B. They are defect prone because they are unable to detect nuances in the requirements.
- C. They make debugging more complicated because the number of steps is usually high in order to induce the target failure.
- **D. They are usually missing the expected results, so verification is difficult or must resort to only detecting significant failures.**

**Antwort: D**

Begründung:

AI-generated test cases are often created using machine learning (ML) models or heuristic algorithms. While these can be effective in generating large numbers of test cases quickly, they often suffer from the "test oracle problem."

\* Test Oracle Problem: A test oracle is the mechanism used to determine the expected output of a test case. AI-generated test cases often lack expected results because AI-based tools do not inherently understand what the correct output should be.

\* Difficulty in Verification: Without expected results, verifying test cases becomes challenging. Testers must rely on heuristics, anomaly detection, or significant failures, rather than traditional pass/fail conditions.

\* A (Slow Execution Time): AI-generated tests are typically automated and designed for efficiency. They are not inherently slow and often execute faster than manually written tests.

\* B (Defect-Prone Due to Nuance Issues): While AI-generated tests may struggle with some complexities in requirements, they primarily lack expected results, rather than failing due to an inability to detect nuances.

\* C (Complicated Debugging Due to Many Steps): AI-generated tests reduce debugging complexity by limiting the number of steps required to reproduce failures.

\* ISTQB CT-AI Syllabus (Section 11.3: Using AI for Test Case Generation)

\* "AI-generated test cases often lack expected results, making it difficult to verify correctness without a test oracle."

\* "Verification often relies on detecting significant failures rather than having predefined expected results."

Why Other Options Are Incorrect: Supporting References from ISTQB Certified Tester AI Testing Study Guide: Conclusion: Since AI-generated test cases frequently lack expected results, verification becomes difficult, requiring testers to focus on major failures rather than precise pass/fail conditions. Thus, the correct answer is D.

### 118. Frage

An ML engineer performing supervised learning needs to label images of football games based on the location of the football in the image. Which ONE of the below labeling approaches can be used?

- A. Benchmarking
- **B. Annotation**
- C. Internal
- D. Augmentation

**Antwort: B**

Begründung:

Annotation is the correct labeling approach for supervised learning, as it involves manually labeling the images with the correct information, such as marking the location of the football in the image. This labeled data can then be used to train a machine learning model.

### 119. Frage

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Examfragen hat eine starke Gruppe, die aus IT-Eliten besteht. Sie verfolgen ständig die neuesten Informationen über die Schulungsunterlagen der ISTQB CT-AI Zertifizierung mit ihren professionellen Perspektiven. Mit unseren Schulungsunterlagen zur ISTQB CT-AI Zertifizierung können Sie die ISTQB CT-AI Prüfung leichter bestehen, statt zu viel Zeit zu kosten. Nach dem Kauf unserer Produkte werden Sie einjährige Aktualisierung genießen.

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