

# 正確的-高品質なCT-AI技術問題試験-試験の準備方法

## CT-AI復習内容



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あなたはもうISTQB CT-AI資格認定試験を申し込んでいましたか。いまのあなたは山となるCT-AI復習教材と練習問題に面して頭が痛いと感じますか。CertJukenは絶対にあなたに信頼できるウェブサイトなので、あなたの問題を解決するCertJukenをお勧めいたします。役立つかどうかの資料にあまり多い時間をかけるより、早くCertJukenのサービスを体験してください。躊躇わなく、行動しましょう。

CT-AI試験問題の更新を1年以内にクライアントに無料で提供し、1年後にクライアントは50%の割引を受けることができます。クライアントが古いクライアントの場合、一定の割引を享受できます。当社ISTQBの専門家は、毎日CT-AIガイドトレントを更新し、CT-AIスタディガイドの最新の更新をクライアントに提供します。私たちはクライアントに割引を提供し、彼らがより少ないお金を使うようにします。あなたが古いクライアントである場合、あなたは特別割引を享受することができますので、お金を節約することができます。したがって、CT-AIテストトレントを購入することは非常に価値があります。

>> CT-AI技術問題 <<

## CT-AI復習内容、CT-AI合格対策

CertJukenの専門家チームが彼ら自分の知識と経験を使って多くの人の夢が実現させるIT関連の認証試験の問題集を研究し続けています。CertJukenが提供したISTQBのCT-AI試験問題と解答が真実の試験の練習問題と解答は最高の相似性があります。CertJukenがあなたの夢が実現させるサイトでございます。

## ISTQB CT-AI 認定試験の出題範囲：

トピック	出題範囲
トピック 1	<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>
トピック 2	<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>
トピック 3	<ul style="list-style-type: none"><li>systems from those required for conventional systems.</li></ul>
トピック 4	<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>

トピック 5	<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>
トピック 6	<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>
トピック 7	<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>
トピック 8	<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>
トピック 9	<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>

## ISTQB Certified Tester AI Testing Exam 認定 CT-AI 試験問題 (Q89-Q94):

### 質問 # 89

Which ONE of the following hardware is MOST suitable for implementing AI when using ML?

SELECT ONE OPTION

- A. High powered CPUs.
- B. 64-bit CPUs.
- **C. Hardware supporting fast matrix multiplication.**
- D. Hardware supporting high precision floating point operations.

正解: C

解説:

A . 64-bit CPUs.

While 64-bit CPUs are essential for handling large amounts of memory and performing complex computations, they are not specifically optimized for the types of operations commonly used in machine learning.

B . Hardware supporting fast matrix multiplication.

Matrix multiplication is a fundamental operation in many machine learning algorithms, especially in neural networks and deep learning. Hardware optimized for fast matrix multiplication, such as GPUs (Graphics Processing Units), is most suitable for implementing AI and ML because it can handle the parallel processing required for these operations efficiently.

C . High powered CPUs.

High powered CPUs are beneficial for general-purpose computing tasks and some aspects of ML, but they are not as efficient as specialized hardware like GPUs for matrix multiplication and other ML-specific tasks.

D . Hardware supporting high precision floating point operations.

High precision floating point operations are important for scientific computing and some specific AI tasks, but for many ML applications, fast matrix multiplication is more critical than high precision alone.

Therefore, the correct answer is B because hardware supporting fast matrix multiplication, such as GPUs, is most suitable for the parallel processing requirements of machine learning.

### 質問 # 90

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

SELECT ONE OPTION

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

正解: D

解説:

\* 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.

#### 質問 #91

Which statement regarding data preparation in the ML workflow is correct?

Choose ONE option (1 out of 4)

- A. One challenge of data gathering is obtaining high-quality data from multiple sources.
- B. A key challenge in data transformation is the removal or correction of erroneous data.
- C. Sampling is so well researched that it is no longer considered risky.
- D. Since data preparation is time-consuming, all steps should be automated.

正解: A

解説:

The ISTQB CT-AI syllabus describes the ML data preparation workflow in Section 2.2 - Data Preparation.

Data preparation consists of data gathering, cleaning, transformation, and sampling. The syllabus emphasizes that one significant challenge during data gathering is combining data from multiple heterogeneous sources, which often differ in structure, quality, and format. Ensuring the resulting dataset is accurate, complete, and representative can be complex, making this a critical challenge in the ML workflow.

This aligns directly with Option C.

Option A is incorrect because erroneous data correction is part of cleaning, not transformation. Option B contradicts the syllabus: while automation can help, not all steps should be automated due to the need for expert oversight, especially in detecting subtle data quality issues. Option D is incorrect because sampling continues to involve risk—particularly around representativeness—and the syllabus emphasizes caution, not complacency.

Thus, Option C is the only statement that accurately reflects the syllabus.

#### 質問 #92

A local business has a mail pickup/delivery robot for their office. The robot currently uses a track to move between pickup/drop-off locations. When it arrives at a destination, the robot stops to allow a human to remove or deposit mail. The office has decided to upgrade the robot to include AI capabilities that allow the robot to perform its duties without a track, without running into obstacles, and without human intervention.

The test team is creating a list of new and previously established test objectives and acceptance criteria to be used in the testing of the robot upgrade. Which of the following test objectives will test an AI quality characteristic for this system?

- A. The robot must evolve to optimize its routing
- B. The robot must record the time of each delivery which is compiled into a report
- C. The robot must complete 99.99% of its deliveries each day
- D. The robot must recharge for no more than six hours a day

正解: A

解説:

In the syllabus, the evolution characteristic for AI-based systems means the ability of the system to evolve and adapt its behavior in response to changes in the environment or in its own performance:

"Evolution is the system's ability to change itself to adapt to new situations, different hardware, or a changing operational environment." (Reference: ISTQB CT-AI Syllabus v1.0, Section 2.3)

#### 質問 #93

"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.

正解: A

解説:

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.

## 質問 #94

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クライアントがCT-AIクイズ準備を購入する前後に、思いやりのあるオンラインカスタマーサービスを提供します。クライアントは、購入前にCT-AI試験実践ガイドの価格、バージョン、内容を尋ねることができます。ソフトウェアの使用方法、CT-AIクイズ準備の機能、CT-AI学習資料の使用中に発生する問題、および払い戻しの問題について相談できます。オンラインカスタマーサービスの担当者がCT-AI試験実践ガイドに関する質問に回答し、辛抱強く情熱的に問題を解決します。

CT-AI復習内容: <https://www.certjuken.com/CT-AI-exam.html>

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