PSTQB
ASSOCIAÇÃO PORTUGUESA
DE TESTES DE SOFTWARE

Remote Exam

English, German & French

258,30€

Associate Price

246€

The amounts mentioned include VAT at the normal rate in force.

ISTQB® CTFL AI Testing

The **Foundation Level AI Testing** qualification is aimed at anyone involved, or wants a basic understanding of in testing AI-based systems and/or AI for testing.

To be eligible to undertake the AI Testing certification exam, candidates must first hold the ISTQB® Foundation Certificate.

CONTENTS

Introduction to AI
Definition of AI & AI Effect
Narrow, General& Super AI
AI-based & Conventional Systems
AI Technologies
AI Development Frameworks
Hardware for AI-Based Systems
AI as a Service (AIaaS)
Pre-Trained Models
Standards, Regulations & AI

Quality Characteristic for AI-Based Systems
Flexibility & Adaptability
Autonomy
Evolution
Bias
Ethics
Side Effects & Reward Hacking
Transparency, Interpretability & Explainability
Safety & AI

Machine Learning (ML) - Overview
Forms of ML
ML Workflow
Selecting a Form of ML
Factors Involved in ML Algorithm Selection
Overfitting & Underfitting

ML - Data
Data Preparation as Part of the ML Workflow
Training, Validation & Test Datasets in the ML Workflow
Dataset Quality Issues
Data Quality & Its Effect on the ML Model
Data Labelling for Supervised Learning

ML Functional Performance Metrics
Confusion Matrix
Add ML Functional Performance Metrics for Classification, Regression & Clustering
Limitations of ML Functional Performance Metrics
Selecting ML Functional Performance Metrics
Benchmark Suites for ML Performance

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EXAM STRUCTURE

* 31 points or more;
** Only for participants taking the exam in a language other than their mothertongue;
*** Each correct answer equals 1 point.

40 Multiple-Choice Questions

60 Minutes

65%* Passing Score

+ 15** Minutes Additional Time

47*** Maximum Score

BUSINESS OUTCOMES

- Understand the current state and expected trends of AI;
- Experience the implementation and testing of a ML model and recognize where testers can best influence its quality;
- Understand the challenges associated with testing AI-Based systems, such as their self-learning capabilities, bias, ethics, complexity, non-determinism, transparency and explainability;
- Contribute to the test strategy for an AI-Based system;
- Design and execute test cases for AI-based systems;
- Recognize the special requirements for the test infrastructure to support the testing of AI-based systems;
- Understand how AI can be used to support software testing.

For more information, please contact: exames@pstqb.pt

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ISTQB®
Certified Tester
Usability Testing

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