

Certified Tester AI Testing (CT-AI) Exam Prep

Workshop Overview

The Certified Tester AI Testing (CT-AI) Exam Prep workshop is designed to provide a comprehensive understanding of AI technology with a strong focus on CT-AI exam preparation. This workshop extends the foundational knowledge of software testing to enable the role of an AI Tester, ensuring participants are well-prepared for the CT-AI certification exam.

This tutor-led workshop includes lectures, exercises, and discussions aimed at connecting the dots between traditional software testing and AI testing.

Target Audience

This workshop is ideal for:

- Software Testers
- Test Managers
- AI Application Developers
- Project Managers
- Exam Candidates

Learning Outcomes

- Understand AI Fundamentals and Quality Characteristics:
 - Grasp the definition and effects of AI, including narrow, general, and super AI
 - Learn about quality characteristics such as flexibility, adaptability, autonomy, bias, ethics, safety, and standards specific to AI-based systems
- Machine Learning Concepts and Data Handling:
 - Understand data preparation, forms of ML, ML workflow, and factors involved in algorithm selection
 - Learn about dataset quality issues, overfitting, underfitting, and data labelling for ML performance
- ML Functional Performance and Neural Networks:
 - Gain knowledge on ML functional performance metrics, including the confusion matrix and benchmark suites
 - Learn about neural networks, coverage measures, and testing for concept drift in AI-based systems
- Testing AI-Based Systems:
 - Understand the specification, challenges, and test levels of AI-based systems
 - Learn about testing for automation, bias, concept drift, and the use of test oracles and acceptance criteria
- Advanced Testing Techniques and AI for Testing:
 - Learn about adversarial attacks, data poisoning, pairwise testing, A/B testing, and metamorphic testing



- Understand the use of AI for test case generation, defect prediction, and testing user interfaces

Certification Prerequisites

- Participants must hold the ISTQB Foundation certificate to enrol in this workshop.