

ISTQB® Certified Tester: Advanced Level Test Analyst

Duration: 4 days Live online

Course Overview

ISTQB® (International Software Testing Qualifications Board) is the standard for international qualifications in software testing at an advanced level. This course, with its large number of practical exercises and practice examination questions, fully prepares attendees for the ISTQB® Certified Tester Advanced Level Test Analyst examination. While this course is focused on the syllabus, giving attendees the maximum chance of passing the examination, it also contains practical real world examples.

Who should attend?

The course would be beneficial for: Requirements Engineers, Functional Testers, Test Managers, Developers, Test Automation Specialists, Performance Test Specialists, Test Environments Specialists, Security Testing Specialists and anyone else wishing to take the Advanced Level Test Analyst Exam.

Prerequisites & pre-reading guidelines

To be able to obtain an Advanced Level certification, candidates must hold the ISTQB® Foundation Level Certificate (CTFL v4.0 or equivalent) and ideally have a minimum 6 months' experience in software testing or development and familiarity with test design techniques and SDLC models.

How certification is earned

The course and syllabus are accompanied by a three-hour multiple-choice examination featuring variable length questions. In order to achieve certification, delegates must score 65% or higher. This exam is usually held on a separate day, either proctored online or in-class, but not within the 4 days of the course. Additional time is available under circumstances which make that appropriate, such as sitting the exam as a non-native English speaker.

Course Objectives

On completion of this course, attendees will be able to:

- Apply structured test analysis and design techniques
- Contribute to risk-based testing and regression strategies
- Design tests for AI, machine learning, and automation contexts
- Perform functional and user-focused non-functional testing
- Use defect prevention and root cause analysis methods
- Manage testware and support keyword-driven testing

Context

The ISTQB® Certified Tester: Advanced Level Test Analyst is an essential follow-on to the ISTQB® Certified Tester: Foundation Level. This certification takes testers of all types deeper into test principles, practices, and black box test design techniques.

Related courses

The following courses complement the ISTQB® Certified Tester: Advanced Level Test Analyst, either as prerequisite or follow on:

- ISTQB® Certified Tester Foundation Level
- ISTQB® Certified Tester Advanced Level Test Manager
- ISTQB® Certified Tester Advanced Level Technical Test Analyst

Course Outline

The Tasks of the Test Analyst in the Test Process

- Role of the Test Analyst across SDLC models
 - Test analysis
 - Test design
 - Test implementation
 - Test execution
- High-level vs. low-level test cases
- Test environment and data requirements
- Test oracles and keyword-driven testing
- Tools for managing testware

Risk-Based Testing

- Contribution to product risk analysis
- Impact analysis for regression testing
- Risk mitigation and monitoring techniques

Test Analysis and Test Design

- Data-Based Techniques:
 - Domain Testing
 - Combinatorial Testing
 - Random Testing
- Behaviour-Based Techniques:
 - CRUD Testing
 - State Transition Testing
 - Scenario-based Testing
- Rule-Based Techniques:
 - Decision Table Testing
 - Metamorphic Testing (for AI)
- Experience-Based Techniques:
 - Test Charters Supporting Session-Based Testing
 - Checklists Supporting Experience-Based Test Techniques
 - Crowd testing
- Applying the Most Appropriate test Techniques
- Benefits and risks of automating test design

Testing Quality Characteristics

- Functional suitability
 - Correctness
 - Completeness
 - Appropriateness
- Usability and accessibility testing
- Adaptability and installability testing
- Interoperability testing

Software Defect Prevention

- Defect prevention practices and metrics
- Phase containment and early defect detection
- Review techniques and modelling for defect identification
- Root cause analysis and defect classification

Contact

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