



ISTQB Certified Tester: Advanced Level Technical Test Analyst

Duration: 4 days Live online

Course Overview

Following on from the ISTQB Certified Tester Foundation Level training, this course covers the increasing technical challenges faced by testers. The ISTQB Advanced Level Technical Test Analyst certification will teach you the various procedures, techniques, and tools for non-functional testing. You will then be able to apply these in your future role as a Technical Test Analyst.

The course will be followed on a separate day by a two-hour e-proctored examination. Our experienced trainers will fully prepare you for that exam.

Who should attend?

The course would be beneficial for: Requirements Engineer, Functional Tester, Test Manager, Developer, Test Automation Specialist, Performance Test Specialist, Test Environments Specialist, Security testing Specialist and anyone else wishing to take the Advanced Level Technical Test Analyst Exam.

Prerequisites & pre-reading guidelines

To be able to obtain an Advanced Level certification, candidates must hold the ISTQB Certified Tester Foundation Level qualification (or ISEB equivalent). 18 months of practical experience within the software testing field is recommended for attending an advanced level course, but not strictly required.

How certification is earned

The course and syllabus are accompanied by a two-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 3 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 have an advanced understanding of test design techniques and will be fully prepared to take the ISTQB Certified Tester Advanced Level Technical Test Analyst examination.

Context

The ISTQB Certified Tester: Advanced Level Technical Test Analyst is an essential follow-on to the ISTQB Certified Tester: Foundation Level. This certification takes technical testers of all types deeper into the areas of non-functional testing and white box test design.

Related courses

The following courses complement the ISTQB Certified Tester: Advanced Level Technical 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 Test Analyst

Course Outline

The Technical Test Analyst's Tasks in Risk-Based Testing

- Introduction
- Risk-based Testing Tasks

Structure-Based Testing

- Introduction
- Statement Testing
- Decision Testing
- Modified Condition/Decision Coverage (MC/DC) Testing
- Multiple Condition Testing
- Basis Path Testing
- API Testing
- Selecting a White-box Test Technique

Analytical Techniques

- Introduction
- Static Analysis
 - Control Flow Analysis
 - Data Flow Analysis
 - Using Static Analysis for Improving Maintainability
 - Call Graphs
- Dynamic Analysis
 - Detecting Memory Leaks
 - Detecting Wild Pointers
- Analysis of Performance Efficiency

Quality Characteristics for Technical Testing

- Introduction
- General Planning Issues
- Security Testing
- Reliability Testing
- Performance Efficiency Testing
- Maintainability Testing
- Portability Testing
- Compatibility Testing

Reviews

- Technical Test Analyst Tasks in Reviews
- Using Checklists in Reviews
 - Architectural Reviews
 - Code Reviews

Test Tools and Automation

- Defining the Test Automation Project
- Specific Test Tools

Contact

Patricia McGuire

Head of Training

Expleo Technology Ireland Ltd

M. +353 (0)87 235 5902

W. expleoacademy.com

pat.mcguire@expleogroup.com

academy-uki@expleogroup.com