

Expleo Academy

Stepping ahead



Q40505 ISTQB Certified Tester: Advanced Level Technical Test Analyst

Duration: 3 days

Course Overview

Following on from the ISTQB® Certified Tester Foundation Level training, this workshop covers the increasing technical challenges faced by system testing in particular. Defined tasks need to be structured according to the technical requirements and the internal structure of the system needs to be analysed in detail in order to achieve the expected level of quality and detect errors during development.

The ISTQB® Advanced Level Technical Test Analyst certification will teach you on the basis of the current ISTQB® Advanced Level syllabus. The various procedures, techniques and tools for non-functional system testing will be explained, and you will then be in a position to apply these in your future work as a Technical Test Analyst.

The three-day certification will be followed by a two-hour examination. During the workshop, our experienced trainers will fully prepare you for the ISTQB® Advanced Level Technical Test Analyst examination.

Who should attend?

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

To be able to obtain an Advanced Level certification, candidates must hold the ISTQB® Certified Tester Foundation Level qualification (or ISEB equivalent). You need to prove evidence for at least 18 months of

practical experience within the software testing field. Candidates must be able to read and understand pseudo-code.

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.

Recommended Follow-on Courses

After completing this course attendees may consider taking one or both of the other ISTQB® Advanced Level courses:

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

Course Outline

This three-day course follows the ISTQB® Advanced Level Technical Test Analyst syllabus and covers the following:

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

- Introduction
- Risk-based Testing Tasks
 - Risk Identification
 - Risk Assessment
 - Risk Mitigation

Structure-Based Testing

- Introduction
- Statement Testing
- Decision Testing

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- 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

Further Information

Should you not pass your exam the first time, Expleo offer one re-sit exam at a discounted rate*

*Please note: this does not apply to Pearson Vue vouchers. Conditions apply.



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Contact

Patricia McGuire
Head of Training at
Expleo Technology Ireland Ltd
M. +353 (0)87 235 5902
W. expleogrouptraining.com
pat.mcguire@expleogroup.com
academy@expleogrouptraining.com

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