

ISTQB Advanced Test Analyst

Course Overview

The ISTQB Advanced Test Analyst course extends the broad understanding of testing acquired at Foundation Level to enable the role of an Advanced or Senior Test Analyst to be performed.

This three-day tutor-led course includes lectures, exercises and practical work, as well as exam preparation. The examination is held at an agreed later date, so allowing adequate time for revision. It is fully-accredited by UKITB on behalf of ISTQB and has been rated SFIPlus level 5 by the BCS.

Who is the course for?

The ISTQB Advanced Test Analyst course is principally aimed at test practitioners who have achieved an advanced point in their careers in software testing and are expecting to be actively involved in the analysis, specification, design and execution aspects of software testing, and who want to increase their knowledge and skills beyond the levels covered by the Foundation and Intermediate qualifications. This includes people in roles such as testers, test analysts, test engineers, test consultants, test managers, user acceptance testers and software developers.

This Test Analyst Advanced Level qualification is also appropriate for anyone who wants a deeper understanding of software testing, such as project managers, quality managers, software development managers, business analysts and management consultants.

About ISTQB and the 'Certified Tester' Scheme

Founded in 2002, ISTQB (International Software Testing Qualifications Board) is a not-for-profit association comprising 66 national boards (including the UKITB) to provide worldwide coverage

ISTQB has defined the Advanced certification as part of their 'Certified Tester' scheme that, with over 240,000 certifications, has become the de facto world-wide standard for software testing qualifications.

The 'Certified Tester' scheme:

- provides a set of professional qualifications widely-recognised by employers, customers and peers;
- enables software suppliers to hire and train certified testers and thereby gain commercial advantage over their competitors by advertising their tester recruitment and development policies; and



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- enables comparison of testing skills across different countries, testers to move across country borders more easily, and multi-national/international projects to have a common understanding of testing issues.

E-Learning Course

What's Included?

- Three months of unlimited access to the online course
- A downloadable electronic copy of the complete set of course materials. No expiration to access. Digital rights management and intellectual property rights protections apply.
- Sample exam questions throughout the course
- ISTQB Advanced Level Test Analyst Syllabus and the glossary of terms used in Software Testing produced by members of the ISTQB
- Examples and exercises including solutions

Next Steps: Follow-on Courses After ISTQB Advanced Test Analyst Course

After completing the ISTQB Advanced Test Analyst course, individuals looking to further expand their knowledge and skills in software testing and quality assurance may consider the following additional certifications and training courses.

Core Stream Modules

These modules are technology, methodology, and application domain-agnostic, building directly on the knowledge acquired at the Foundation Level.

- Advanced Technical Test Analyst
- Advanced Test Manager

Agile Stream

Tailored for those working in or transitioning to Agile environments, this stream emphasizes testing practices and principles within the Agile methodology.

- ISTQB Agile Tester Foundation Extension
- Advanced Agile Technical Tester

Specialist Stream

For those looking to specialise further, this stream offers courses focusing on specific quality characteristics, test approaches, test activities, or industry-specific testing knowledge.

- Acceptance Testing
- Mobile Application Testing
- Model-Based Tester



- Security Tester
- Test Automation Engineer

Holders of the ISTQB Advanced Test Analyst certification are encouraged to explore these options to stay current with the latest practices and to enhance their professional development in the field of software testing and QA.

Entry Requirements

The entry requirements for the Certified Tester Advanced Level Test Analyst qualification are that the candidate must hold the ISTQB Foundation certificate and it is also suggested that candidates have a minimum of 2 years testing experience. Note that it is recommended that you attend an accredited training course run by an accredited training provider, as the overall exam pass rates are notably higher for candidates attending such courses.

The Exam

To qualify as an internationally-recognized Certified Advanced Level Test Analyst and be issued with an ISTQB® Advanced Level Certificate, delegates must successfully pass the exam administered by the relevant National Board or Examination Provider.

- 45 multiple choice pick 'n' mix questions which consist of the questions followed by a list of options
- Duration of 120 minutes (or 150 minutes for candidates taking examinations that are not in their native language)
- A candidate must score at least 65% to pass
- Exam is included in the price

Course Objectives

After successfully completing the course and passing the exam, delegates should be able to demonstrate the following business-based outcomes

- Perform the appropriate testing activities based on the software development lifecycle being used;
- Determine the proper prioritization of the testing activities based on the information provided by the risk analysis;
- Select and apply appropriate test techniques to ensure that tests provide an adequate level of confidence, based on defined coverage criteria;
- Provide the appropriate level of documentation relevant to their testing activities;
- Determine the appropriate types of functional testing to be performed;
- Work effectively in a usability testing team;

- Effectively participate in requirements / user story reviews with stakeholders, applying knowledge of typical mistakes made in work products;
- Improve the efficiency of the test process with the use of tools.

In addition, the newly qualified ISTQB Advanced Test Analyst should be able to demonstrate their skills in the following areas once they have completed the course and passed the exam:

- Explain how and why the timing and level of involvement for the Test Analyst varies when working with different software development lifecycle models.
- Summarize the appropriate tasks for the Test Analyst when conducting analysis and design activities.
- Explain why test conditions should be understood by the stakeholders.
- For a given project scenario, select the appropriate design level for test cases (high-level or low-level).
- Explain the issues to be considered in test case design.
- Summarize the appropriate tasks for the Test Analyst when conducting test implementation activities.
- Summarize the appropriate tasks for the Test Analyst when conducting test execution activities.
- For a given situation, participate in risk identification, perform risk assessment and propose appropriate risk mitigation.
- Analyze a given specification item(s) and design test cases by applying equivalence partitioning.
- Analyze a given specification item(s) and design test cases by applying boundary value analysis.
- Analyze a given specification item(s) and design test cases by applying decision table testing.
- Analyze a given specification item(s) and design test cases by applying state transition testing.
- Explain how classification tree diagrams support test techniques.
- Analyze a given specification item(s) and design test cases by applying pairwise testing.
- Analyze a system, or its requirement specification, in order to determine likely types of defects to be found and select the appropriate black-box test technique(s).
- Explain the principles of experience-based test techniques, and the benefits and drawbacks compared to black-box and defect-based test techniques.
- Determine exploratory tests from a given scenario.



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- Describe the application of defect-based test techniques and differentiate their use from black-box test techniques.
- For a given project situation, determine which black-box or experience-based test techniques should be applied to achieve specific goals.
- Explain what test techniques are appropriate to test functional completeness, correctness and appropriateness.
- Define the typical defects to be targeted for the functional completeness, correctness and appropriateness characteristics.
- Define when the functional completeness, correctness and appropriateness characteristics should be tested in the software development lifecycle.
- Explain the approaches that would be suitable to verify and validate both the implementation of the usability requirements and the fulfillment of the user's expectations.
- Explain the role of the test analyst in interoperability testing including identification of the defects to be targeted.
- Explain the role of the test analyst in portability testing including identification of the defects to be targeted.
- For a given set of requirements, determine the test conditions required to verify the functional and/or non-functional quality characteristics within the scope of the Test Analyst.
- Identify problems in a requirements specification according to checklist information provided in the syllabus.
- Identify problems in a user story according to checklist information provided in the syllabus.
- For a given scenario, determine the appropriate activities for a Test Analyst in a keyword-driven automation project.
- Explain the usage and types of test tools applied in test design, test data preparation and test execution.