



# ISTQB® Certified Tester Advanced Level – Test Analyst

## COURSE INFORMATION

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## Summary

*The ISTQB® Advanced Test Analyst certification course is a 4-day course that focuses on techniques for software testing that go beyond those covered at Foundation Level. This course is accredited by the ISTQB.*

*Our training includes exercises and practice exam questions to highlight key aspects of the syllabus, to help participants understand and practice the concepts and methods presented and to prepare them for the certification exam.*

## Course Objectives

To build on Foundation level (CTFL) knowledge by providing an understanding of a range of advanced test techniques, both dynamic and static, and how to apply them. To further build on CTFL by providing deeper insights into the Test Analyst's contribution to test management, defect reporting and the use of test automation tools.

## Who will benefit?

Advanced level courses are suitable for anyone who is interested in progressing an established career in software testing. This includes people in roles such as testers, test analysts, test engineers, test consultants, test team leads, test managers, user acceptance testers and software developers. They may also be of interest to anyone who wants a deeper than Foundation Level understanding of software testing, such as project managers, quality managers, software development managers, business analysts, IT directors and management consultants.

The Advanced Test Analyst course is particularly aimed at people whose primary role involves the more user-facing / customer-facing, rather than the more technical, aspects of testing software solutions.

## Prerequisites

In order to take an ISTQB Advanced level certification exam, it is necessary to already have the CTFL certificate and to "satisfy the Exam Board which examines them that they have sufficient practical experience to be considered Advanced Level qualified".

The CTFL certificate is not a pre-requisite for attending this training course. It is, however, essential that attendees have either obtained it or, at least, have undergone an ISTQB-accredited Foundation Level training course. It is further recommended that delegates also have at least one year's practical experience of software testing.

## Skills to be Gained

A candidate who achieves ISTQB Advanced Test Analyst certification can be expected to:

- Use advanced techniques for designing tests at all test levels
- Use risk to maximise the value of testing by prioritising all aspects of it
- Make good choices about the level of detail in test documentation
- Understand the contribution that they can make to the management of testing
- Understand the quality characteristics for business domain testing
- Know how to approach usability and accessibility testing
- Understand how the effectiveness of reviews can be maximised, and the role that checklists can play in this
- Know how to compile and use a defect taxonomy
- Write clear and actionable defect reports, including those for non-functional defects
- Understand the use of classification data and root cause analysis on defect reports
- Make good use use of testing tools that are relevant to business domain testing, including test automation tools and the keyword-driven test automation technique.

## The Certification Exam

The Certificate is awarded to those who pass a written three-hour multiple-choice exam of 60 questions that is set, moderated, marked and invigilated by an ISTQB licensed Exam Provider. Candidates whose native language is not English get an extra 25% time allowance.

The exam will be arranged separately on a later date. Tesena, in common with other training providers, recommends that Advanced Level exams be taken approximately 1 – 2 weeks after the course in order to allow adequate preparation time.

## Course Content (Overview)

### **Chapter 1: Testing in the Software Development Lifecycle**

- How a standard test process, its major activities and work products can be adapted to the context of particular SDLCs and project characteristics.
- Varying levels of detail to which testware can be produced; implementing traceability.

### **Chapter 2: Test Management Responsibilities for the TA**

- How test analysts can contribute to and support test management.
- How the TA's tasks in risk-based testing can maximise the value of testing.

### **Chapter 3: Test Techniques**

- Advanced application of Foundation Level techniques.
- How combinatorial techniques and domain analysis can help with complex test development challenges.
- User story testing, exploratory testing and other experience based techniques.
- Defect-based techniques and defect taxonomies.

### **Chapter 4: Testing Software Quality Characteristics**

- The software product quality model.
- Testing the sub-characteristics of functionality.
- Testing usability and accessibility.

### **Chapter 5: Reviews**

- How to get good results from reviews and avoid 'review fatigue'.
- How checklists can increase the effectiveness of reviews.

### **Chapter 6: Defect Management**

- Guidelines for choosing the data that are needed for defect reports.
- How root cause analysis can contribute to process improvement.

### **Chapter 7: Test Tools**

- How to realise benefits from test design and data preparation tools.
- How to maximise the benefits of test automation and avoid failure.
- How keyword-driven automation can give the non-technical TA more control over automated test implementation.

A more detailed list of this course's content can be found in the official ISTQB syllabus which can be viewed on, and downloaded from, [www.istqb.org](http://www.istqb.org) (go to the Downloads section).