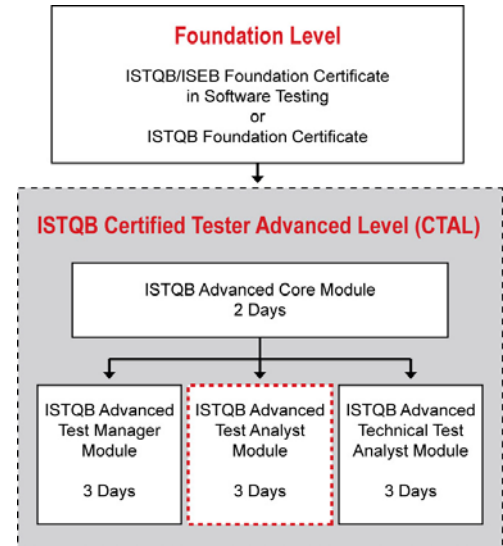


ISTQB Advanced Test Analyst Module

This three day course follows on from the *ISTQB Advanced Level Core Module* and leads to the *ISTQB Advanced Test Analyst Certification*.

This course focuses specifically on test analyst issues such as producing test documentation in relation to domain testing, choosing and applying appropriate specification-based, defect-based and experienced-based test design techniques.

The prerequisite *ISTQB Advanced Core Module* covers elements common to all three advanced level streams in one two day course. Each of the three ISTQB Advanced streams – Test Manager, Test Analyst and Technical Test Analyst – is usually trained over five days. Completing the *Advanced Core Module* once thus saves the candidate four days training in attaining the full *Certified Tester Advanced Level* qualification: *CTAL – Full (Test Manager, Test Analyst, Technical Test Analyst)*.



Course Objectives

- Provide an in-depth understanding of test analysis, design and implementation that goes far beyond the ISTQB Foundation level.
- Provide a portfolio of methods for designing tests for a variety of software types within any type of software application.
- Domain testing will be emphasised.

Spreadsheets, templates and utilities will be provided to help students to devise tests that are both effective and efficient, giving best value for the testing being done in the time that is given.

Who Will Benefit

This three day course is appropriate for test analysts, developers, business analysts, quality assurance, domain testers, managers of testers, users and anyone wishing to gain the *ISTQB Advanced Level Test Analyst Qualification*.

Skills Gained

- Ability to evaluate requirements to determine domain validity.
- Identify and choose appropriate test design techniques for different applications.
- Understand the differences between test conditions, test cases, test procedures and test scripts and identify when to produce them.
- Produce good quality test design specifications using the most effective test design techniques.
- Apply suitable techniques to test quality characteristics such as performance, reliability, accessibility and usability.

Course Content

- **Test Techniques: Specification-Based**

Explains and demonstrates how to use and apply the following important test design techniques:

- Equivalence Partitioning
- Boundary Value Analysis
- Decision Tables
- State Transition Testing
- Classification Tree Method
- Pairwise Testing
- Use Cases

- **Test Techniques: Defect and Experienced-Based**

- Describes the principles and reasons for defect-based techniques and differentiates their use from specification-based and structure-based techniques.
- Explains, using examples, the importance of defect taxonomies and their uses.

The following defect and experienced-based techniques will be described and used to generate tests:

- Error Guessing
- Checklist-based
- Exploratory Testing
- Attacks

Candidates will analyse various systems in order to determine which specification-based and defect-based techniques best fit the application being tested.

- **Test Software Characteristics**

Testing the system's functionality is an important aspect for every tester, focusing on what the system does. Another vital area for every tester is to test the software's characteristics – how well it behaves.

Analysis of suitable techniques is provided to test the following quality characteristics for the test analyst:

- Accuracy
- Suitability
- Interoperability
- Functional Security
- Usability
- Accessibility

Other characteristics are explained and the reasons why they need technical testers to design and execute them:

- Technical Security
- Reliability
- Efficiency
- Performance, load, stress and scalability testing
- Maintainability
- Portability

The Exam

This course will provide the delegate with the necessary knowledge and skills to sit the *ISTQB Advanced Test Analyst Certificate* multiple-choice exam. Delegates will be given the opportunity to sit the examination at the end of the course.

Information about the certification can be found on the International Software Testing Qualifications Board (ISTQB) website: <http://www.istqb.org/>

Course Details

- **Prerequisites**

Delegates wishing to take the *ISTQB Advanced Test Analyst Certificate* must hold the *ISTQB/ISEB Foundation Certificate* or *ISTQB Certified Tester Foundation Level Certificate* and have completed the *ISTQB Advanced Core Module*. There are certain work experience prerequisites, a document detailing the prerequisites can be downloaded from the South African Software Testing Qualifications Board (SASTQB) site (www.sastqb.org.za) for more detailed information. If you wish to sit the course without taking the exam, there are no prerequisites.

- **Course presentation and duration**

The course is presented by an experienced software testing practitioner. The course duration is three days. It runs from 08:00 to 17:30. This includes a lunch and two tea breaks daily. Course dates can be found on our website www.testdata.co.za.

- **Training style**

The course is conducted in a classroom style. Candidates use practical tasks to layer theoretical concepts.

- **Comprehensive and accredited course materials, certification and assessment**

Comprehensive course notes are provided. Candidates will be given exercises, practice exams and learning aids to assist in preparation for the final exam.

- **Accreditation**

Test and Data Services is an accredited ISTQB Training Provider.

<http://www.sastqb.org.za/listAccreditations.html>

- **Training Venues**

Test and Data Services presents courses at several well-established training facilities in Midrand (near Johannesburg and Pretoria), Cape Town and Durban. Training can be arranged at the client's premises, depending on adequate facilities and candidate numbers. Training courses can also be provided internationally.

Contact

	Gauteng	Cape Town	All Other Areas
Telephone	(011) 848-7600	(021) 447-1147	(011) 848-7600
Fax	(011) 848-7611	(021) 447-1148	(011) 848-7611
Physical Address	Tuscan Gardens Office Park 1740 14 th Street Noordwyk	A308 Gate House Black River Office Park Fir Street Observatory	
Postal Address	P O Box 14138 Lyttelton 0140	P O Box 12968 Mowbray 7705	P O Box 14138 Lyttelton 0140
Training Enquiries	training@testdata.co.za (011) 848-7600	training.ct@testdata.co.za (021) 447-1147	training@testdata.co.za (011) 848-7600
General Enquiries	info@testdata.co.za (011) 848-7600	info.ct@testdata.co.za (021) 447-1147	info@testdata.co.za (011) 848-7600
Test Focus Magazine	info@testfocus.co.za (011) 848-7600	info@testfocus.co.za (011) 848-7600	info@testfocus.co.za (011) 848-7600



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