

# ISTQB Certified Tester Foundation Level

## 3 DAY course

### Overview

The ISTQB is the International Software Testing Qualification Board, represented in over 43 countries to ensure consistent standards for software testing qualifications internationally. Gaining ISTQB certification at different levels means that a tester's competency and skills are internationally recognised and acknowledged.

There are many different software testing methodologies that may be applied in the myriad of organisations in which software testers play a vital part. However, experience alone may not always provide a personal sense of skilled understanding or confidence in what is being practiced.

ISTQB is a certification body which recognises the need to represent software testers and their experience, with an ideal understanding of what values software testing may add to all IT Projects. The body confirms what software testers already know and assists in closing gaps in their knowledge.

The ISTQB CTFL (Foundation) course is an ISTQB exam preparation course aimed at providing adequate theory and practical experience for the ISTQB CTFL exam.



## Prepare to write the CTFL Exam and gain international ISTQB certification

### Target Audience

- Test Analysts
- Test Managers
- Test Leads
- Systems and Business Analysts
- Anyone involved in Software Quality Assurance requiring internationally recognised certification

### Prerequisites

- Delegates must have either 1 year of software testing experience in a functioning and busy testing team or have attended FTI's FSQA - Fundamentals of Software Quality Assurance (MICT SETA accredited) short course, EUAT - Effective User Acceptance Testing short course or CPST - Certificate Programme in Software Testing course.
- Delegates must be self motivated

### Course Delivery

The course delivery comprises instructor-led seminars interspersed with practical exercises for both the group and the individual.

This short course is primarily designed to be completed during the daily sessions but some additional homework will be required. Completion of homework assignments within the required timeframe is essential. Theoretical concepts are covered in lecture sessions, while richer understanding is gained in applying these concepts in a simulated work environment.

### Learning Outcomes

The ISTQB CTFL syllabus covers many objectives some of whom are listed below. A full list of the objectives can be found at <http://www.istqb.org/downloads/finish/16/15.html>

- Describe why testing is part of quality assurance and give examples of how testing contributes to higher quality (K2)
- Provide examples of the objectives of testing in different phases of the software life cycle (K2)
- Explain the seven principles in testing

- Recognise the fact that software development models must be adapted to the context of project and product characteristics (K1)
- Identify and describe non functional test types based on non functional requirements (K2)
- Explain the differences between static and dynamic techniques, considering objectives, types of defects to be identified, and the role of these techniques within the software life cycle (K2)
- Explain the differences between different types of reviews: informal review, technical review, walkthrough and inspection (K2)
- Translate test cases into a well structured test procedure specification at a level of detail relevant to the knowledge of the testers (K3)
- Write test cases from given software models using equivalence class partitioning, boundary value analysis, decision tables and state transition diagrams/tables (K3)
- Explain the benefits and drawback of independent testing within an organisation (K2)
- Write a test execution schedule for a given set of test cases, considering prioritisation, and technical and logical dependencies (K3)
- Describe, with examples, how risk analysis and risk management may be used for test panning (K2)
- Write an incident report covering the observation of a failure during testing (K3)
- Explain the purpose of tool support for testing (K2)
- Summarise the potential benefits and risks of test automation for testing (K2)
- The ISTQB CTFL syllabus requires different learning objectives/cognitive levels of knowledge:
  - K1: Remember, recall (e.g. recognise a definition)
  - K2: Understand, give reasons for (e.g. why should testing start early in the lifecycle)
  - K3: Apply, do, perform (e.g. apply boundary value analysis technique to identify valid boundaries)
  - K4: Analyse, solve a problem or task (e.g. analyse a document or code)
- All of the above levels are covered in this ISTQB CTFL exam preparation course. Take a look at the cognitive levels on the ISTQB website at <http://www.istqb.org/downloads/finish/16/15.html>

Course Code: ISTQB  
ISTQB Foundation Level Certification





## Course Content

### Day 1:

- Fundamentals of testing
  - Testing necessity
  - Understanding testing
  - Principles of testing
  - Test Process
  - Psychology of testing
  - Code of Ethics
- Testing throughout the software life cycle
  - Methodologies
  - Test levels
  - Test types
  - Maintenance testing
- Static techniques
  - Techniques and the test process
  - Review process
  - Analysis with tools

### Day 2:

- Static techniques continued
  - Review process
  - Analysis with tools
- Test design techniques
  - Test development process
  - Test design techniques
  - Black box and white box techniques
- Test management
  - Test organisation
  - Test planning and estimation
  - Monitoring and controlling test progress

### Day 3:

- Test management continued
  - Configuration management
  - Risks and testing
  - Incident management
- Tool support for testing
  - Types of test tools
  - Effective use of test tools
  - Introducing a tool into the organisation

## Course Assessment

To earn a FTI certificate of attendance, delegates will be required to:

- Attend all three course days
- Actively participate in exercises and discussions

### ISTQB Foundation Level

On successful completion of the course, delegates wishing to obtain the ISTQB Foundation Level must sit and pass an independent examination administered by SASTQB. The cost of one sitting of the exam is covered as part of the course fee.

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