

## ISTQB Certified Tester Foundation Level (CTFL) + exam

**Duration: 3 Days**    **Course Code: ISTQB-CTFL**    **Version: 4.0**

### Overview:

Established the International Software Testing Qualification Board (ISTQB) with, among other things, the goal of further internationalization and harmonization of test certification programs. There is now a fully globally harmonized and recognized ISTQB certification scheme. This three-day accredited training course prepares you for the 'Foundation Certificate in Software Testing' exam and meets the requirements as set by ISTQB. You will learn about test principles & standards, test management, test phasing, reviews and inspections and test techniques for both white-box and black-box testing and test tools.

### Target Audience:

The Foundation Level qualification is aimed at anyone involved in software testing. This includes people in roles such as testers, test analysts, test engineers, test consultants, test managers, user acceptance testers and software developers.

### Objectives:

- Understand what testing is and why it is beneficial
- Understand fundamental concepts of software testing
- Identify the test approach and activities to be implemented depending on the context of testing
- Assess and improve the quality of documentation
- Increase the effectiveness and efficiency of testing
- Align the test process with the software development lifecycle
- Understand test management principles
- Write and communicate clear and understandable defect reports
- Understand the factors that influence the priorities and efforts related to testing
- Work as part of a cross-functional team
- Know risks and benefits related to test automation
- Identify essential skills required for testing
- Understand the impact of risk on testing
- Effectively report on test progress and quality

### Prerequisites:

None

### Testing and Certification

This course prepares you for the official ISTQB® Certified Tester-Foundation Level exam. The exam is included in the course price.

#### Exam Structure

- No. of Questions: 40
- Total Points: 40
- Passing Score: 26 Exam
- Length (mins): 60 (+25% Non-Native Language)

### Follow-on-Courses:

- ISTQBA-TA, ISTQB Advanced Test Analyst + examen
- ISTQBA-TM, ISTQB Advanced Test Manager + examen
- ISTQBA-TTA, ISTQB Advanced Technical Test Analyst + examen
- ISTQB-TAE, ISTQB ISTQB Advanced Test Automation Engineer + examen



## Content:

Chapter 1: Fundamentals of Testing	2.2.3 Distinguish confirmation testing from regression testing	4.5.1 Explain how to write user stories in collaboration with developers and business representatives
1.1 What is Testing?	2.3 Maintenance Testing	4.5.2 Classify the different options for writing acceptance criteria
1.1.1 Identify typical test objectives	2.3.1 Summarize maintenance testing and its triggers	4.5.3 Use acceptance test-driven development (ATDD) to derive test cases
1.1.2 Differentiate testing from debugging	Chapter 3: Static Testing	Chapter 5: Managing the Test Activities
1.2 Why is Testing Necessary?	3.1 Static Testing Basics	5.1 Test Planning
1.2.1 Exemplify why testing is necessary	3.1.1 Recognize types of products that can be examined by the different static test techniques	5.1.1 Exemplify the purpose and content of a test plan
1.2.2 Recall the relation between testing and quality assurance	3.1.2 Explain the value of static testing	5.1.2 Recognize how a tester adds value to iteration and release planning
1.2.3 Distinguish between root cause, error, defect, and failure	3.1.3 Compare and contrast static and dynamic testing	5.1.3 Compare and contrast entry criteria and exit criteria
1.3 Testing Principles	3.2 Feedback and Review Process	5.1.4 Use estimation techniques to calculate the required test effort
1.3.1 Explain the seven testing principles	3.2.1 Identify the benefits of early and frequent stakeholder feedback	5.1.5 Apply test case prioritization
1.4 Test Activities, Testware and Test Roles	3.2.2 Summarize the activities of the review process	5.1.6 Recall the concepts of the test pyramid
1.4.1 Summarize the different test activities and tasks	3.2.3 Recall which responsibilities are assigned to the principal roles when performing reviews	5.1.7 Summarize the testing quadrants and their relationships with test levels and test types
1.4.2 Explain the impact of context on the test process	3.2.4 Compare and contrast the different review types	5.2 Risk Management
1.4.3 Differentiate the testware that support the test activities	3.2.5 Recall the factors that contribute to a successful review	5.2.1 Identify risk level by using risk likelihood and risk impact
1.4.4 Explain the value of maintaining traceability	Chapter 4: Test Analysis and Design	5.2.2 Distinguish between project risks and product risks
1.4.5 Compare the different roles in testing	4.1 Test Techniques Overview	5.2.3 Explain how product risk analysis may influence thoroughness and scope of testing
Certified Tester Foundation Level	4.1.1 Distinguish black-box, white-box and experience-based test techniques	5.2.4 Explain what measures can be taken in response to analyzed product risks
1.5 Essential Skills and Good Practices in Testing		
1.5.1 Give examples of the generic skills required for testing		

1.5.2 Recall the advantages of the whole team approach	4.2 Black-box Test Techniques	5.3 Test Monitoring, Test Control and Test Completion
1.5.3 Distinguish the benefits and drawbacks of independence of testing	4.2.1 Use equivalence partitioning to derive test cases	5.3.1 Recall metrics used for testing
Chapter 2: Testing Throughout the Software Development Lifecycle	4.2.2 Use boundary value analysis to derive test cases	5.3.2 Summarize the purposes, content, and audiences for test reports
2.1 Testing in the Context of a Software Development Lifecycle	4.2.3 Use decision table testing to derive test cases	5.3.3 Exemplify how to communicate the status of testing
2.1.1 Explain the impact of the chosen software development lifecycle on testing	4.2.4 Use state transition testing to derive test cases	5.4 Configuration Management
2.1.2 Recall good testing practices that apply to all software development lifecycles	4.3 White-box Test Techniques	5.4.1 Summarize how configuration management supports testing
2.1.3 Recall the examples of test-first approaches to development	4.3.1 Explain statement testing	5.5 Defect Management
2.1.4 Summarize how DevOps might have an impact on testing	4.3.2 Explain branch testing	5.5.1 Prepare a defect report
2.1.5 Explain the shift-left approach	4.3.3 Explain the value of white box testing	Chapter 6: Test Tools
2.1.6 Explain how retrospectives can be used as a mechanism for process improvement	4.4 Experience-based Test Techniques	6.1 Tool Support for Testing
2.2 Test Levels and Test Types	4.4.1 Explain error guessing	6.1.1 Explain how different types of test tools support testing
2.2.1 Distinguish the different test levels	4.4.2 Explain exploratory testing	6.2 Benefits and Risks of Test Automation
2.2.2 Distinguish the different test types	4.4.3 Explain checklist-based testing	6.2.1 Recall the benefits and risks of test automation
	4.5 Collaboration-based Test Approaches	

## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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