



a global vision for software testing

Training Courses

ISTQB CERTIFIED TESTER—FOUNDATION LEVEL

Objectives of the course

The key objective of this course is to provide the course delegate with a basic knowledge and understanding of software testing. This enables the delegate to take and pass the ISTQB examination and obtain the Foundation Certificate in Software Testing.

After taking the course you will:

- know how to perform effective testing of software
- be aware of techniques and standards
- have an awareness of what testing tools can achieve
- know where to find more information about testing
- establish the basic steps of the testing process.

Pre-requisites

The course is suitable for anyone involved in software testing - testers, test analysts, test engineers, test consultants, test managers, user acceptance testers and software developers. It is also suitable for anyone who needs an understanding of software testing - project managers, quality managers, software development managers, business analysts, IT directors, technical consultants, etc.

Course contents

The course covers six main topics:

- fundamentals of testing
- testing throughout the software life cycle
- test design techniques
- static testing
- test management
- tool support for testing.

You can find further information on the course contents overleaf. The course is intensive and includes end of section tests and a mock examination.

Course duration

The course is held over 3 days (9 am to 5 pm approx.), with the 1-hour examination usually taken on the afternoon of the last day of the course.

Course style

The course is delivered in a classroom environment using presentation, discussion and exercises.

Pre and post course work

There is no pre or post course work required for this course.

Examination and Certification

The examination is usually paper-based and taken in the classroom. From time-to-time it may be computer-based and taken at an approved examination centre. The ISTQB certification is the entry level qualification for software testing.

Contact

For further information on TCL Training please call 0845 869 6072, email training@tcl.eu.com or visit www.tcl-global.com.



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Fundamentals of software testing

Software has become increasingly important in all walks of life with most of us using software at work and at home. This section of the course asks and answers some basic questions about the testing of that software: What could happen if software does not work correctly? Why is it that software fails to work? What is the role of software testing? What does software testing actually involve? Does software testing follow a process? Does testing need to have some level of independence from the creators of the software?

Testing throughout the life cycle

Most people think of testing as someone sitting down with a complete system in front of them and checking that it works. However that is only one aspect of testing and this section explores all the testing activities that can take place from when a user or customer states some requirements through to the eventual acceptance of the delivered system and its ongoing maintenance.

Static techniques

We can test well before any software is written. In fact, some would argue that this is the most important time to test! This section introduces four different types of review that can be used during the software development process and various types of analysis that can be performed on the code written by developers before they actually run it. This type of testing not only finds defects in documentation but can also help prevent defects finding their way into the software.

Test design techniques

Testing could just be based on our judgement and experience but this might mean that we miss important areas resulting in more defects finding their way into the final software product than need be the case. This section explains the process used to derive test cases and gives delegates practice in four black-box testing techniques and two white-box testing techniques. These techniques help testers obtain a good coverage of testing while optimising the number of tests.

Test management

Who decides what testing activities will take place, how long they will take and who will do them? Who makes decisions when the testing project goes off track? The first part of this section explains the major tasks facing test leaders and how activities can be monitored and controlled. The software development life cycle generally produces large amounts of documentation, source code and software. The testing activities associated with these can also produce large amounts of material (test cases, logs, incident reports and so on). The section continues with an explanation of configuration management and incident management and how these apply to testing. The final part of the section deals with assessment of risk and how this can be used to drive testing activities.

Tool support for testing

Software can be very complex and the testing activities can produce large amounts of material and take a large amount of effort to run or administer. This final section describes the wide range of software tools that are available to test leaders, testers and developers to assist them in their testing endeavours. Bringing testing tools into an organisation is not as straightforward as you might think and the final part of this section deals with the benefits and pitfalls of testing tools and the process that can be used for their successful introduction.

Other training to help you improve your testing knowledge and skills

TCL provides training in: risk-based testing, benefits-based testing, static testing, exploratory testing, performance testing basics, aligning test strategies to corporate goals and our SMaRT testing methodology (covering test strategy, test planning, test scripting, test execution and test closure). These can be provided as half or full-day courses delivered at your work location for a fixed cost (for a maximum of 12 people per course). We can also deliver an introduction to each of these subjects as an hour-long brown-bag (lunchtime) session.