

What is ISTQB Foundation in Software Testing Training?

This [Software Testing](#) Foundation Training is based on the ISTQB & BCS syllabus.

The Software Testing Foundation Training course prepares delegates for the multiple choice examination for the qualification.

The Software Testing Foundation Training course has six main parts: Fundamentals of testing; Testing throughout the life cycle; Static test techniques; Test design techniques; Test management; and Test tools. Acquirement of this certification enables candidates to gain further qualifications such as [BCS Intermediate Software Testing Training](#) and [ISTQB Advanced Test Manager Training](#).

We also provide private and in-company **Software Testing Foundation courses**. Call [+44 \(0\)1273 622272](#) to discuss.

ISTQB-BCS Foundation in Software Testing Course Format

This Software Testing Foundation course is a three-day tutor-led course, with the examination on the afternoon of the third day.

Those taking the Software Testing Foundation course are also provided with 1-year's access to:

- A number of testing and related discipline books from the Skillsoft library;
- Other value-add products, information and regular opinion pieces from industry-experts.

Course Objectives

- Prepare candidates for the BCS Foundation Certificate in Software Testing based on the ISTQB syllabus;
- Improve understanding of software testing – its purpose and nature – and to raise awareness of issues and constraints around testing;
- Provide a professional qualification widely recognised by employers, customers and peers;
- Introduce test techniques (static, white box and black box) to delegates as well as providing practical experience of some key techniques;
- Learn standard terminology;
- Provide a complete picture of the test activities and processes from requirements review to system implementation; and to discover good sources of information.

The objectives for the Software Testing Foundation qualification are in the ISTQB syllabus and include:

- Enabling software suppliers to hire certified testers and thereby gain commercial advantage over their competitors by advertising their tester recruitment policy; and
- Enabling comparison of testing skills across different countries, testers to move across country borders more easily and multi-national/international projects to have a common understanding of testing issues.

The fundamentals of testing:

- Why testing is necessary; harm caused by defects in software; root causes; testing and quality assurance; what testing is; general testing principles; fundamental test process and the psychology of testing.

Testing throughout the software life cycle:

- Software development models; relationship between development, test activities and work products in the development life cycle, project and product characteristics and context; test levels, objectives, typical objects and targets of testing; functional, non-functional, structural and change-related testing; confirmation and regression testing; maintenance testing; regression testing and impact analysis in maintenance.

Static techniques:

- Reviews and the test process; software work products and the different static techniques; importance and value of static techniques; difference between static and dynamic techniques; typical formal review process; different types of review: informal review, technical review, walkthrough and inspection; explain the factors for successful performance of reviews; static analysis by tools; defects and errors identified by static analysis; typical benefits; typical code and design defects identified.

Test design techniques

- Identifying test conditions and designing test cases; categories of test design techniques; specification-based (black-box) and structure-based (white-box) approaches; equivalence partitioning; boundary value analysis; decision tables; state transition diagrams, use case testing; structure-based or white-box techniques; code coverage; statement and decision coverage; control flows using statement testing and decision testing; coverage; experience based techniques; choosing techniques.

Test management

- Test organization; independent testing; tasks of typical test leader and tester; test planning and estimation; 'Standard for Software Test Documentation' (IEEE 829); typical factors that influence the effort related to testing; estimation approaches (metrics-based and expert-based); test preparation and execution tasks; exit criteria; test progress monitoring and control; metrics and reporting; configuration management; risk and testing; incident reporting and management.

- Types of test tool; effective use of tools; potential benefits and risks; introducing a tool into an organization.

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