



TCT Computing Group, Inc.  
PO Box 402  
Bel Air, MD 21014-0402  
410-893-5800  
866-TCT-MERC  
www.tctcomputing.com  
training@tctcomputing.com

# ISTQB/ISEB Software Testing Foundation Certificate Course

## The Exam

The Foundation Certificate is awarded to those who pass a written one hour multiple-choice exam which is set, moderated, marked and monitored by the Information Systems Examination Board (ISEB).

## Who will benefit?

This 3-day course is appropriate for testers, test team leaders, developers, development managers, business analysts, and anyone wishing to gain the ISEB Foundation Certificate in Software Testing.

## Prerequisites

None. However we strongly suggest that delegates wishing to take the Foundation exam should have at least 6 months experience in testing.

## Course Objectives

To provide an understanding of the fundamental principles of testing and explain different testing terminology. The course also provides an overview of different techniques, both dynamic and static and how to apply them.

## Skills Gained

- Learn about the differences between the testing levels and targets
- Know how to apply both black and white box approaches to all levels of testing
- Understand the differences between the various types of review and be aware of Static Analysis
- Learn aspects of test planning, estimation, monitoring and control
- Communicate better through understanding standard definitions of terms
- Gain knowledge of the different types of testing tools and the best way of implementing those tools

## Course Outline

### Fundamentals of Testing

This section looks at why testing is necessary, what testing is, and explains general testing principles, the fundamental test process, and psychological aspects of testing.

### Testing throughout the software lifecycle

Explain the relationship between testing and life cycle development models, including the V-model and iterative development. Outline four levels of testing:

- Component testing
- Integration testing
- System testing
- Acceptance testing

Describe four test types, the targets of testing:

- Function
- Non-functional characteristics
- Structural
- Change-related

Outline the role of testing in maintenance



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## **Static Techniques**

Explain the difference between the various types of review, and outline the characteristics of a formal review. Describe how static analysis can find defects.

## **Test Design Techniques**

This section explains how to identify test conditions (things to test) and how to design test cases and procedures. It also explains the difference between white and black box testing. The following techniques are described in some detail with practical exercises:

- Equivalence Partitioning
- Boundary Value Analysis
- Decision Tables
- State Transition testing
- Statement and Decision testing

In addition, use case testing and experience-based testing (such as exploratory testing) are described, and advice is given on choosing techniques.

## **Test Management**

This section looks at organizational implications for testing and describes test planning and estimation, test monitoring and control. The relationship of testing and risk is covered, and configuration management and incident management.

## **Tool Support for Testing**

Different types of tool support for testing are described throughout the course. This session summarizes and discusses how to use them effectively and how best to introduce a new tool.