

## **ISTQB Foundation Exam Prep Course Outline**

### **General Description**

If you're thinking about taking the ISTQB Foundation exam, and looking for a short exam preparation course to boost your confidence and your score, this one-day course is for you. Specially designed for the experienced tester who needs a quick brush-up before the ISTQB Foundation exam and for the graduate of the Test Engineering Foundation course who wants more practice before the ISTQB Foundation exam, this course will review the ISTQB Foundation Syllabus, ISTQB Glossary, and applicable standards.

Special features of this course include the following:

- Attendees receive a mock exam prior to the course, and the course starts with debrief on the exam.
- After each chapter of the Syllabus is reviewed, attendees will have a chance to try sample exam questions covering every learning objective for that chapter.
- During the course, attendees will receive another mock exam, along with an answer key, for further practice.

These additional resources were created by Rex Black, President of the International Software Testing Qualifications Board ([www.istqb.org](http://www.istqb.org)), immediate past President of the American Software Testing Qualifications Board ([www.astqb.org](http://www.astqb.org)), and co-author of the International Software Testing Qualifications Board Foundation Syllabus 2005.

In addition to the two mock exams and 120 sample questions covering every learning objective in the Syllabus, attendees also receive copies of the ISTQB Foundation Syllabus 2007 and Glossary, detailed advice on how to prepare for the exam, and more.

### **Learning Objectives**

This highly interactive course prepares the student to sit the ISTQB Foundation Exam by focusing on key elements of the syllabus and providing practice with mock exams. The key examination areas are each briefly covered with a view to reinforcing the knowledge gained either through foundation training or on-the-job experience.

This course is specifically targeted at students who plan to sit the ISTQB Foundation Exam, and is not intended to teach basic testing skills.

## Course Materials

This course includes the following materials:

<i>Name</i>	<i>Description</i>
Course Outline	A general description of the course along with learning objectives, course materials and an outline of the course topics, including approximate timings for each section.
Noteset	A set of approximately 40 PowerPoint slides covering the topics to be addressed.
Text book	<i>Foundations of Software Testing:ISTQB Certification</i> an essential guide to software testing and the ISTQB Foundation qualification, authored by a group involved in the writing of the ISTQB Syllabus.
Foundation Sample Exam Questions	A complete set of questions for every learning objective in the ISTQB Foundation Syllabus provided for review.
Two Mock Exams	Practice exams containing questions and answers to assess your readiness for the ISTQB Foundation exam.
ISTQB Exam Guidelines	Exam format and question writing guidelines.
ISTQB Foundation Syllabus	The Certified Tester Foundation Level Syllabus which forms the basis for the International Software Testing Qualification at the Foundation Level.
ISTQB Glossary	The latest glossary of terms used in Software Testing produced by member of the ISTQB.
Information for those pursuing Certification	Tips and advice on how to prepare for the exam.
Bibliography and resources	A set of further readings, Web sites, tools and other resources to help implement the concepts.

The printed course materials are provided in a binder in a way which makes it convenience for course attendees to remove portions as needed for reference; e.g., during exercises.

## Session Plan

The course runs for one day, and two hours may be added after the course for the ISTQB Foundation exam if desired.

### **Introduction (15 minutes)**

### **Practice Mock Exam Debrief (45 minutes)**

#### **1.0 Principles of testing (45 minutes)**

- 1.1 Why is testing necessary
- 1.2 What is testing
- 1.3 General testing principles
- 1.4 Fundamental test process
- 1.5 Psychology of testing
- Standards and references review
- Glossary review
- Sample exam questions

#### **2.0 Testing throughout the life cycle (45 minutes)**

- 2.1 Software development models
- 2.2 Test levels
- 2.3 Test types: the targets of testing
- 2.4 Maintenance testing
- Standards and references review
- Glossary review
- Sample exam questions

#### **3.0 Static techniques (30 minutes)**

- 3.1 Reviews and the test process
- 3.2 Review process
- 3.3 Static analysis by tools
- Standards and references review
- Glossary review
- Sample exam questions

#### **4.0 Test Design Techniques (90 minutes)**

- 4.1 Identifying test conditions and designing test cases
- 4.2 Categories of test design techniques
- 4.3 Specification-based or black box techniques
- 4.4 Structure-based or white box techniques
- 4.5 Experience-based techniques
- 4.6 Choosing test techniques
- Standards and references review
- Glossary review
- Sample exam questions

#### **5.0 Test management (60 minutes)**

- 5.1 Test organization
- 5.2 Test planning and estimation
- 5.3 Test progress monitoring and control

- 5.4 Configuration management
- 5.5 Risk and testing
- 5.6 Incident or bug management
- Standards and references review
- Glossary review
- Sample exam questions
- 6.0 Tool support for testing (30 minutes)**
- 6.1 Types of test tools
- 6.2 Effective use of tools, potential benefits and risks
- 6.3 Introducing a tool into an organization
- Standards and references review
- Glossary review
- Sample exam questions
- Question-and-answer period (30 minutes)**

## **Recommended Readings**

Attendees receive copies of Rex Black's book, *ISTQB Certification: Software Testing Foundation* (available mid-2006).