

ISTQB Software Testing Foundation

ISTQB is the world-renowned Association that certifies software testers. Software Testing involves evaluating a program, application, or system against its technical and business requirements to determine its effectiveness. Testing can include implementing techniques with the intent to locate software defects. With increasingly complex IT systems being introduced, Software Testing is becoming progressively more and more valued within businesses. Software Testing is essential for companies to ensure the successful running of the software development cycle, and it lessens maintenance costs and provides better usability and enhanced functionality. This training will provide you with in-depth knowledge and understanding of Software Testing tools and techniques and assist you in passing your exam on the very first attempt.

This Software Testing Foundation training course is curated by our industry experts, which provides an introduction to software testing fundamentals. Modules of this training are designed to provide learners with knowledge about the main principles of Software Testing, including testing standards, testing life cycles, testing techniques and tools, and static testing. They will also learn how to implement and analyse Software Testing methodology. This training course adopts the ISTQB's syllabus and is officially acknowledged by the BCS, making the Software Testing Foundation an authentic certification to have in this competitive era and gain a career advantage.

Outline

This is the ISTQB Software Testing Foundation, which covers all essential topics required by a beginner to take the first step in Software Testing. This training course includes the ISTQB's syllabus and is officially acknowledged by the BCS, hence making Software Testing Foundation an authentic certification to obtain. During this ISTQB Software Testing Foundation course, you will learn the following topics:

Course Outline

Module 1: Fundamentals of Testing

- What is Testing?
- Testing and Quality
- How Much Testing is Enough?
- Different Viewpoints on Objectives
- Fundamental Test Process
- Psychology of Testing

Module 2: Testing Through the Software Development Lifecycle

- Test Level Plans
- Iterative-Incremental Models
- Test Levels
- Component Testing
- Integration Testing
- Component Integration Testing

- System Testing
- Acceptance Testing
- Testing of Function
- Testing of Non-Functional Software Characteristics
- Maintenance Testing

Module 3: Test Design Techniques

- Categories of Test Design Techniques
- Black-Box Techniques
- Boundary Value Analysis
- State Transition Testing
- State Matrix
- State Table
- Decision Table Testing
- Use Case Testing
- Coverage Measures
- Structure-Based or White-Box Techniques
- Statement Testing and Coverage
- Decision Testing and Coverage
- Experience-based Techniques
- Choosing Test Techniques
- Test Design Techniques

Module 4: Static Techniques

- Static Testing and the Test Process
- Review Process
- Types of Review
- Review Process
- Static Analysis by Tools

Module 5: Test Management

- Test Organization and Independence
- Test Organization
- Test Planning and Estimating
- Test Approach Vs Test Strategy
- Test Progress Monitoring and Control
- Specific Management Issues
- Configuration Management
- Risk and Testing
- Defect Management

Module 6: Tool Support for Testing

- Types of Test Tool
- Meaning and Purpose of Tool Support
- Management of Testing and Tests
- Tool Support for Static Testing
- Tool Support for Test Execution and Logging
- Tools More Appropriate for Developers
- Effective Use of Tools
- Potential Benefits of Tool Support
- Introducing a Tool into an Organization
- Pilot Project Objectives
- Success Factors for Deployment