

Course Overview

This course focuses specifically on test management issues such as test estimation, monitoring, and control, test documentation, selecting appropriate review types, introducing reviews into organizations, defect lifecycles, defect categorizations, process improvement, metrics, and measures, and people skills.

Course Content

- **Fundamentals of Testing:** This module defines testing terminology and covers the fundamental aspects of the testing process, including general principles, the fundamental test process, and the psychology of testing. It discusses important concepts such as regression testing and retesting, emphasizing the importance of communication and independence for successful testing.
- **Testing Throughout the Software Life Cycle:** This module discusses the role of testing in the software development life cycle and the targets of testing. It defines maintenance testing and covers software development models, emphasizing the importance of good testing in any model. Test levels are discussed within a V-model, and a clear distinction is made between the roles of verification and validation testing. The module also addresses important principles governing the economic viability of testing.
- **Dynamic Testing Techniques:** This module covers testing techniques that are performed while the program code is running, such as equivalence partitioning, boundary value analysis, decision logic tables, state transition testing, negative testing, and random testing. These techniques are essential for effective testing, ensuring that no serious faults are missed.
- **Static Techniques:** This module covers techniques performed without executing any program code. The module distinguishes between the two different test processes using static or dynamic techniques. The static testing techniques covered include reviews, data flow analysis, control flows graphing, and complexity analysis. Static analysis using tools can be beneficial, especially in detecting errors in code areas that would generally be unattainable.
- **Test Design Techniques:** This module addresses the identification of test conditions and the design of test cases. It covers test design techniques such as specification-based, structure-based, and experience-based testing. Examples of case testing are discussed, as well as factors to consider in the choice of techniques.
- **Test Management:** This module covers important test management principles, such as the benefits and pitfalls of various test organization structures, influences on test planning and estimation, test progress monitoring and control with appropriate tools, and more. Independence, reporting, and the use of appropriate tools are emphasized.
- **Tool Support for Testing:** This module discusses types of test tools, effective use, benefits and risks, and introducing tools to an organization.

INTENDED AUDIENCE

This ISTQB course will be of significant value to testers who have 3 months or more testing experience, test analysts, test managers who have not yet earned the qualification, business analysts, and developers.

COURSE DURATION

The course is presented by an experienced software testing practitioner. The course duration is four days with an exam.

TRAINING STYLE

The course is conducted in a virtual classroom style. Candidates use practical tasks to layer theoretical concepts. Comprehensive and accredited course materials, certification and assessment. Comprehensive course notes are provided. Candidates will be given exercises, practice exams and learning aids to assist in preparation for the final exam.

TRAINING VENUES

iLAB Training is virtually presented globally.

The Exam

This course will provide the candidate with the necessary knowledge and skills to sit the ISTQB Foundation Certificate in Software Testing multiple-choice exam. Candidates will register for the examination at the end of the course.

Information about the certification can be found on the International Software Testing Qualifications Board (ISTQB) website: <http://www.istqb.org/>

Course Prerequisites

- IT background with at least 6 months of testing experience.
- If the delegate has no testing experience, the Practical Software Testing Course is required.

Elevate your software testing skills at the iLAB Training Center.

As the leader in independent software quality assurance and testing for over two decades, our training has helped thousands of testers and managers launch their careers into the next level! We offer a wide variety of courses at initial, intermediate and advanced levels. Our courses range from one to five days in duration and, depending on the facilities and number of candidates, can be arranged at your location.

