

Agile Testing—ISTQB Software Testing Certification Training

Course Summary

Description

The ISTQB Agile Testing Foundation Certificate Course is a course explaining the fundamentals of testing on agile projects. This course is accredited by ISTQB and addresses the ISTQB Foundation Level Agile Testing Syllabus.

The course includes exercises and practice exams to highlight key aspects of the syllabus and to help participants understand and practice the concepts and methods presented.

This course provides participants with the knowledge and skills necessary to become an effective member of an Agile team. Explains the fundamentals of testing on Agile projects including commonly used Agile development practices and processes. Describes how to organize and estimate testing and how to apply risk-based testing on Agile projects, and outlines the important testing and test-related tools typically used on Agile projects

Objectives

After taking this course, students will be able to:

- Collaborate in a cross-functional Agile team being familiar with principles and basic practices of Agile software development.
- Adapt existing testing experience and knowledge to Agile values and principles.
- Support the Agile team in planning test-related activities.
- Apply relevant methods and techniques for testing in an Agile project.
- Assist the Agile team in test automation activities.
- Help business stakeholders define understandable and testable user stories and acceptance criteria.
- Work and share information with other team members using effective communication styles and channels.

Topics

- Agile Software Development
- Fundamental Agile Testing Principles, Practices, and Processes
- Agile Testing Methods, Techniques, and Tools

Audience

The target audience for this course includes:

- Software testers
- Senior testers
- Test analysts
- Test leads
- Managers including test managers, project managers, quality managers

Prerequisites

- You must have obtained an ISTQB Foundation Level Certification (CTFL) to be eligible for the Agile Testing Certification.
- Prior to attending class please download and review the following document: Agile Tester Syllabus

Duration

Two Days

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Course Outline

- I. *Agile Software Development*
 - A. The Fundamentals of Agile Software Development
 1. Agile Software Development and the Agile Manifesto
 2. Whole-Team Approach
 3. Early and Frequent Feedback
 - B. Aspects of Agile Approaches
 1. Agile Software Development Approaches
 2. Collaborative User Story Creation
 3. Retrospectives
 4. Continuous Integration
 5. Release and Iteration Planning
- II. *Fundamental Agile Testing Principles, Practices, and Processes*
 - A. The Differences between Testing in Traditional and Agile Approaches
 1. Testing and Development Activities
 2. Project Work Products
 3. Test Levels
 4. Testing and Configuration Management
 5. Organizational Options for Independent Testing
 - B. Status of Testing in Agile Project
 1. Communicating Test Status, Progress, and Product Quality
 2. Managing Regression Risk with Evolving Manual and Automated Test Cases
 - C. Role and Skills of a Tester in an Agile Team
 1. Agile Tester Skills
 2. The Role of a Tester in an Agile Team
- III. *Agile Testing Methods, Techniques, and Tools*
 - A. Agile Testing Methods
 1. Test-Driven Development, Acceptance Test-Driven Development, and Behavior-Driven Development
 2. The Test Pyramid
 3. Testing Quadrants, Test Levels, and Testing Types
 4. The Role of a Tester
 - B. Assessing Quality Risks and Estimating Test Effort
 1. Assessing Quality Risks in Agile Projects
 2. Estimating Testing Effort Based on Content and Risk
 - C. Techniques in Agile Projects
 1. Acceptance Criteria, Adequate Coverage, and Other Information for Testing
 2. Applying Acceptance Test-Driven Development
 3. Functional and Non-Functional Black Box Test Design
 4. Exploratory Testing and Agile Testing
 - D. Tools in Agile Projects
 1. Task Management and Tracking Tools
 2. Communication and Information Sharing Tools
 3. Software Build and Distribution Tools
 4. Configuration Management Tools
 5. Test Design, Implementation, and Execution Tools
 6. Cloud Computing and Virtualization Tools