AgileTstPath

# ISTQB® Agile Tester  Extension - Fast Track

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AgileTstPath - Version: 1

## 6 days Course

**Description:**

It only takes 6 days to become a certified ISTQB® Agile Tester! The "Agile Tester Fast Track" is optimized for either attendees with no knowledge or experience in the testing or Agile domain, or those who have little experience, but never had a chance to go through a formal course on this topic.

The track walkthrough from the basic building blocks of the required knowledge in Agile Testing, through preparation to the ISTQB® Certified Tester Foundation Level (Bonus included - 1 full day of  ISTQB®  Foundation exam preparation!) to certifying the attendees as ISTQB® Agile Testers.

**Intended audience:**

People who wish to obtain the required knowledge and skill to become Agile Software Testers, and add value in their Agile teams.

**Prerequisites:**

**Objectives:**

**Topics:**

# Stage 1 (2 days)

- Principles (overview)
  - º Introduction
  - º Why is testing necessary
    - Software systems context
    - Causes of SW defects
    - Role of Testing in software development
  - º What is testing
  - º General testing principles
  - º Fundamental test process
    - Test planning and control
    - Test Analysis and design
    - Test implementation and execution
    - Evaluating exit criteria and reporting
    - Test closure activities
  - º Psychology of testing
- Testing throughout the life cycle (overview)
  - º Software development models
    - V-Model
    - Iterative development models
    - Testing throughout the lifecycle
  - º Test levels
    - Component Testing
    - Integration Testing
    - System Testing
    - Acceptance Testing
  - º Test types: the targets of testing
    - Testing of function
    - Testing of software product characteristics

- Testing of software structure/architecture
- Testing related to changes

º Maintenance testing

• Test Design Techniques (+lab)

º Identifying test conditions and designing test cases

º Categories of test design techniques – explain the differences between white box, black box and experienced based techniques

º Specification-based or black box techniques
- Equivalence partitioning
- Boundary Values Analysis
- Decision table testing
- State transition testing
- Use case testing

º Structure-based or white box techniques, including
- Statement testing and coverage
- Decision testing and coverage
- Other structure-based techniques

º Experience-based techniques
- Exploratory testing
- Error Guessing

º Choosing test techniques

º System factors that influence on selecting test technique

• Test management (overview)

º Test organization
- Test organization and independence
- Tasks of the test leader and testers

º Test planning and estimation
- Test planning
- Test planning activities
- Exit criteria
- Test estimation

- Test approaches

º Test progress monitoring and control

- The difference between monitoring and control

- Test progress monitoring objectives

- Test reporting fundamentals

º Configuration management

º Risk and testing

- Project and product risks

- Risk factors

º Incident or bug management

- Incident logging

- Good bug reporting

- Defect tracking lifecycle

## Stage 2 (1 day)

• Simulation - complete mock exam in class
• Analisys of exam answers

º Stage 3 - ISTQB Foundation Exam (externl to syllabus)

## Stage 4 (3 days)

• Chapter 1 - Agile Software Development

º Workshop Introduction

º The Fundamentals of Agile Software Development

- Agile Software Development and the Agile Manifesto

º Techniques in Agile Projects

    - Acceptance Criteria, Adequate Coverage, and Other Information for Testing

    - Applying Acceptance Test-Driven Development

    - Functional 1 and Non-Functional Black Box Test Design

    - Exploratory Testing and Agile Testing

º Tools in Agile Projects

    - Task Management and Tracking Tools

    - Communication and Information Sharing Tools

    - Software Build and Distribution Tools

    - Configuration Management Tools

    - Test Design, Implementation, and Execution Tools

    - Cloud Computing and Virtualization Tools

º Stage 5 - ISTQB Agile Tester Exam (external to syllabus)