



## Agile Testing

### Course Description

In traditional projects, testing happens mostly at the end of the project, after development is completed in a generally adversarial environment. Agile development inverts this structure - testing skills should be applied to a project from the beginning, and tests for specific stories should be written before the story is even implemented.

Testing resources work with the customers and the development team collaboratively to help make sure the right thing is developed in the shortest possible time, not waiting until the end to find out what mistakes the rest of the team made.

This course is focused on testers in an Agile environment. It covers their role, responsibilities and tasks in all phases of the project life cycle. It will show you how to test effectively in an Agile project where the focus is on high quality working software. This course covers the preparation of a test strategy and plan for an Agile project. It looks at testing in a holistic way within the Agile context and examines the responsibilities of testing resources in an Agile development project. It also addresses the approaches that improve the effectiveness of the testing role in an Agile team and covers details of how to write test cases for stories and how to use test scenarios to test over multiple stories.

### Course Outline

#### Introduction

- Agile principles & practices
- Testing practices

#### Responsibilities

- How testing is integral to Agile development and how to leverage that
- Unit testing vs acceptance testing; black vs. white box testing
- Being involved early
- The importance of identifying faults early
- Who is responsible for signing off on stories?

#### Communication

- Treating faults uncovered within an iteration in a lightweight way
- Treating faults uncovered post-iteration as stories
- Managing testing duplication

#### Monitoring

- Creating an initial strategy and high-level plan - what should be in, what should be out
- How much detail should be captured in initiate?
- Including testing effort in estimates
- Elaborating stories and tests incrementally, and how to collaborate with customers to achieve this

#### Test Cases

- Difference between acceptance tests and test cases
- Writing good test cases
- Writing test scenarios
- Regression testing
- Stress and load testing
- Performance testing

#### Automation

- The importance of test automation
- Working with developers to implement automation

Source: Agile Academy Website <http://www.agileacademy.com.au>



## Learning Objectives

Learn how to develop test strategies, how to plan testing for Agile projects, how to write test cases and scenarios, and then execute them. We also introduce you to automated testing.

## Target Audience

All levels of testers who will be involved with an Agile project.