1 DAY

Successful Automation in an Agile Team

Intended Audience

This intermediate course is for:

- Developers who wish to design and develop systems using Agile techniques.

Prerequisites

As the practical work will be done in Java or C#, participants need a working knowledge of one of those languages.

This course covers Agile techniques in practice and participants need to have an understanding of the fundamentals of Agile. We recommend attending Agile Fundamentals course to gain the appropriate background knowledge.

Certification

This course covers the second step in the Agile Testing Track of the IC Agile Pathway and covers all the learning objectives of the Agile Testing Automation Certification (ICP-ATA). This ICP-ATA Certification is granted on the successful completion of this course.

Overview

The course focuses primarily on test automation from an agile tester's perspective as opposed to a programmer's perspective. Students will learn how to set up an overall test automation strategy, including determining which types of tests are better suited for automated versus manual execution. The certification also highlights strategies for creating automated story and feature tests as well as system and integration tests.

Because courses are technology-agnostic, participants will write automated tests using pseudo-code in the classroom. This also helps maximize opportunities for students to learn from one another, regardless of their individual technical expertise. If you would like to learn more about the world of test automation, this is the right certification for you.

Learning Outcomes

- Understand the background to test automation in an Agile project
- Understand the roles and responsibilities for automation in a typical Agile testing team
- Understand the various tool frameworks available to Agile teams to facilitate the testing of the project
- Understand how to plan, perform and implement automated testing in the Agile team
- Understand how discipline and standards contribute to effective automation
- Understand how to set up automated testing for ongoing success in an Agile team.

Content

- The Agile culture and mindset
- Test Automation strategy
    - Automation Pyramid
    - Planning
    - Frameworks
    - Selecting testing
    - Supporting Processes
- Continuous Integration
    - Automated test cycles
    - Code Analysis/metrics
- Automating Testing
    - Test Levels
    - Mapping tests
    - ATDD and BDD frameworks
    - UI testing frameworks
- Automation Support for Integration and System Testing
    - Data management
    - Exploratory testing
    - Non-functional testing
    - Virtualisation