

Course Program

Agile Testing with Behavior Driven Development (BDD) & Cucumber

Duration : 2 days

Language : EN & FR

Agile approaches have a distinctive way to implement specification and qualification phases. Practical methods exist and address objectives of Stakeholders and different project phases: the "Test Driven Development" (TDD), the "Acceptance Testing Driven Development" (ATDD) and the "Behavior Driven Development" (BDD).

Learning Objectives

- Discover and understand test specificities in Agile context
- Differentiate xDD methods
- Know how to implement the Behaviour Driven Development
- Control the practice of Gherkin language writing
- Understand the main test automation principles
- Implement Gherkin scenarios with Cucumber
- Turn Gherkin into executable scenarios with Cucumber

Practical exercises

This training is accompanied by exercises and practical work based on business cases in order to train participants to the formalization of specification on the basis of Gherkin language. The course will also allow participants to practice a specification tool oriented BDD and test automation.

Pre-requisites

Participation in agile projects or basic knowledge of agile principles. Having skills in development and or in test automation.

Participants

This training is perfect for consultants, test consultants, IT consultants, developers, technical experts but also engineers.

Course Content

1st Theoretical part

1. Introduction
 - a. Observation on challenges related to design activities
2. Reminders of agile principles
 - a. Declared values in agile context
 - b. Characteristics of agile testing – Tests quadrants, test pyramid
3. Differentiate TDD, ATDD and BDD
 - a. TDD – An agile development technique
 - b. ATDD – An approach of development based on acceptance tests in agile context
 - c. BDD – A specification and test conception technique
 - d. Test coverage with xDD practices
4. BDD and implementation
 - a. Introduction to Gherkin language
 - b. Objective of acceptance criteria
 - c. The use of conversation and examples for a shared understanding
 - d. The scenario as deliverable of BDD
5. BDD and automation strategy
 - a. Why an automated strategy ?
 - b. Contribution of BDD for the conception of automated tests
 - c. Point of view concerning end to end test automation

2nd part : Practical exercices

1. Write Gherkin scenarios
2. Implementation of BDD with Cucumber
3. Setup Eclipse/Cucumber environment
4. Creation of Java project in the environment
5. Generation of « glue code » and « step definitions »

Trainer skills

Our experts who run our training courses or those we organize with a partner are specialists in the subjects covered. They are validated by our internal teams, both in terms of business knowledge and pedagogy, for each course they teach. They have at least five to ten years of experience in their field and hold or have held positions covering business topics.