Course : Agile Methods, Test Driven Requirement

Practical course - 3d - 21h00 - Ref. AGI
Price : 2250 CHF E.T.

Test Driven Requirement (TDR) is an Agile method for formalizing requirements, which reduces the risk of misunderstandings. This training course will show you how to adopt this approach, write test-driven requirements and prepare for testing as early as possible.

🎯 Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Understand the principles of an iterative, incremental approach
- ✓ Formulating specifications and understanding user stories
- ✓ Implementing the TDR with a tool
- ✓ Adopt a test-driven approach
- ✓ Validate specifications through testing

Intended audience

Analysts, project managers, testers.

Prerequisites

Basic knowledge of software testing.

Practical details

Hands-on work
Project role-play: needs analysis, Fitnesse test setup, TDD implementation.

Course schedule

PARTICIPANTS
Analysts, project managers, testers.

PREREQUISITES
Basic knowledge of software testing.

TRAINER QUALIFICATIONS
The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS
The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more.
Participants also complete a placement test before and after the course to measure the skills they've developed.

TEACHING AIDS AND TECHNICAL RESOURCES
• The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
• At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
• A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

1. Lifecycle and Agile projects

- Predictive or adaptive cycle.
- Accept changing customer needs.
- Iterative and incremental approach.
- Agile methods (fundamentals, Scrum, eXtreme Programming, Crystal).

Hands-on work
Flip the Coin": in teams, identify the points of iterative, incremental work.

2. Expression of need

- Find specifications.
- Formalization standards and best practices.
- Customer satisfaction.
- The "User Story".

Hands-on work
Formulation of requirements. Identify the customer's needs by interview (focus on a feature). Story Mapping: identify themes to define a step-by-step delivery.

3. TDR principles

- Project cycle for the TDR. Objectives.
- Executable specifications.
- Acceptance test-driven development.
- Requirements management tools (FitNesse, GreenPepper).

Hands-on work
Implementation of the TDR. Demonstration of the FitNesse tool.

4. Tests for requirements

- Functional testing. Integration testing. Unit testing.
- Test Driven Development, implementation demonstration.
- Continuous integration.
- Behaviour Driven Development.

Hands-on work
Demonstration of functional test development with Cucumber. Workshop on writing specifications by example.

5. Adoption

- TDR benefits.
- Work organization and responsibilities.
- Control and validation of the ToR process.