

Course : Agile testing, approach and implementation

Practical course - 3d - 21h00 - Ref. TAG

Price : 2260 CHF E.T.



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This course will give you an overview of Agile testing techniques and methods. It will teach you how to organize tests as part of an Agile project. You'll be better equipped to define a good solution, communicate it effectively to your team and implement it properly.

Teaching objectives

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

- ✓ Review the principles of the Agile approach and their impact on test organization
- ✓ Draw up a vision of the application to be developed and prioritize user stories
- ✓ Understand the principle of Acceptance Test Driven Development and write a test scenario
- ✓ Understand the concept of test-driven development (TDD)
- ✓ Identify the principles of refactoring, code quality control and continuous integration

Intended audience

Analysts, project managers, developers, testers, project management assistants.

Prerequisites

Basic knowledge of software project management.

Practical details

Hands-on work

This course includes practical workshops on requirements and testing, as well as demonstrations on the technical side.

Course schedule

PARTICIPANTS

Analysts, project managers, developers, testers, project management assistants.

PREREQUISITES

Basic knowledge of software project management.

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.

1 Lifecycle and agile projects

- The opportunities offered by agile software and product development.
- Motivation for Agility. Values and principles, accepting changing customer needs.
- The agile, iterative and incremental approach.
- Testing in Agile development.

Role-playing

Group workshop to understand the Agile testing approach.

2 Expressing needs in Agile projects

- Identifying value from the user's point of view, testing ideas, Lean Startup.
- Know your users, test user categories, create Personas, UX.
- Making an impact, linking the actions of project stakeholders to their objectives and users, Impact Mapping.
- Break down needs into User Stories.
- Simplifying, prioritizing, writing and organizing user stories.

Hands-on work

Draw up an expression of need for an application to be developed (Story Mapping). Prioritize user stories.

3 The ATDD model, executable specifications

- The principle of ATDD (Acceptance Test Driven Development).
- BDD (Behavior Driven Development).
- Example specifications, executable specifications, non-regression tests, functional tests.
- Project cycle for executable specifications.

Hands-on work

Discover a business domain and write specifications by example. Tooling demonstration.

4 Definition and principles of TDD, test-driven development

- Test typology.
- The origins of TDD (Test Driven Development).
- TDD development cycle. Red Green Refactor, baby steps.
- Refactoring and emergent design.
- Test coverage.

Demonstration

Demonstration of test-driven Java development. Demonstration of refactoring on complex code.

5 Continuous integration

- The different components of continuous integration.
- Implementation of the continuous integration platform.
- Continuous integration and metrics.

Hands-on work

Demonstration of Jenkins and SonarQube.

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.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

Dates and locations

REMOTE CLASS

2026 : 22 June, 21 Sep., 16 Dec.