

AI Training Program for Testing and Software Quality

Training Program



This one-day training course enables testers and quality managers to integrate artificial intelligence into their testing and quality assurance practices. It focuses on the use of AI tools suited to testing activities to generate and enrich test cases, automate tests, strengthen coverage and analyze anomalies, including the outputs of AI systems themselves. Participants leave with directly reusable practices and a clear understanding of when and how to use AI to support software quality and delivery reliability.

Objectives and target skills

- Use AI to design, write and maintain automated tests from functional or technical specifications.
- Detect and prioritize relevant test cases with AI in order to improve test coverage before and after application changes.
- Translate and use specifications written in natural language to generate usable automated test scenarios.
- Strengthen non-regression and release quality with AI by supporting decisions on what should or should not be tested.
- Create load simulators and scenarios with AI without systematically depending on development teams.

Audience	Prerequisites	Duration
✓ Software testers, quality managers, lead developers and tech leads.	✓ Knowledge of testing. ✓ Familiarity with user stories. ✓ Knowledge of testing tools is a plus.	1 day.

Training content

AI and the evolution of QA roles

- Limits of traditional approaches.
- Real contributions of AI to software testing.
- Evolution of the tester role.
- QA responsibility regarding AI-generated outputs.

Overview of AI uses for testing

- Automatic generation of test cases.
- Augmented exploratory testing.
- Intelligent analysis of logs and anomalies.
- General-purpose or specialized AI for testing.

Generating and writing test cases with AI

- Produce test cases from user stories.
- Acceptance criteria and functional specifications.
- Translation into automatable tests.
- Edge-case detection.
- Enrichment of existing tests.

Test automation

- Generation of unit tests.
- Generation of functional tests.
- Generation of integration tests.
- Assistance in writing test scripts.
- Adaptation to functional changes.
- Good practices for keeping tests maintainable.

Test coverage, non-regression and QA decisions

- Strengthening coverage before and after releases.
- Identification of critical areas.
- Deciding what must be tested.
- Prioritizing indirect impacts.

Log analysis

- Detection of rare correlations.
- Identification of non-obvious error patterns.
- Investigation support.
- Reporting support.

Load testing and simulation with AI

- Generation of load and endurance scenarios.
- Writing traffic simulators.
- Limits of AI-generated tests.

Exercises and deliverables

- Test cases generated and enriched with AI.
- Examples of automated tests.
- AI-augmented QA checklist.
- Coverage and non-regression strategy.
- Load testing scenarios.
- Good practices for testing AI systems.

Access conditions

Registration lead time: from 2 months to 1 week before the training starts, subject to available seats and scheduling constraints.

See the General Terms and Conditions of Sale: <https://www.opcoach.com/cgv>.

Registration is completed on the OPCoach website using a link provided in the invitation. This registration collects information about the participant, their professional environment, role, expectations and prerequisites before the training starts.

Accessibility for people with disabilities

People with disabilities may have specific accessibility needs to attend the training. Please contact us so that we can discuss suitable arrangements.

Training format

On-site or remote training.

Group size

From 1 to 8 participants, on site or remotely.

Fees

Inter-company training: EUR 875 excluding VAT. In-company and custom training: please contact us.

Schedule

Schedule available on <https://www.opcoach.com/>.

Training location

Inter-company training takes place in our [InterIndep](#) premises at 2 impasse Michel Labrousse, 31100 Toulouse. The training room is accessible by public transport and by car, and has parking facilities. Several restaurants and a hotel are located nearby. A break area is available for cold and hot drinks during breaks. All these facilities are accessible to people with reduced mobility.

In-company training is preferably delivered at the client's premises. Hosting conditions are validated before the training.

Remote training is delivered with Zoom and can be organized as inter-company or in-company training.

Teaching approach

Alternating short lectures and individual hands-on exercises on a workstation. Sharing and discussion of the results obtained.

Teaching resources

On site: training room with video projector, whiteboard, high-speed Wi-Fi and a training binder provided to the participant.

Remote: high-speed internet access, webcam, free Zoom software, PDF course material sent to the participant. One workstation per participant.

Trainer supervision

Olivier Prouvost, DEA in Computer Science, recognized open source expert and trainer for more than 20 years, developer of AI solutions to optimize SMEs, speaker at international conferences, Eclipse committer on several projects, founder of OPCoach, a Qualiopi-certified training organization since 2020, and ICPF & PSI certified expert trainer and consultant.

Learning assessment

Continuous assessment through the completion of the practical exercises, leading to the creation of a functional prototype.

Recognition

A certificate of skills is provided to the participant.

Satisfaction assessment

At the end of the training, the participant completes a satisfaction survey and takes part in a group feedback session. The participant benefits from unlimited email support for practical questions related to the training. After 3 months, or after applying the training in the workplace, a follow-up questionnaire is completed to assess practical use.

Technical, teaching, administrative and financial contact

Olivier Prouvost, +33 6 28 07 65 64, contact@opcoach.com