AI-Assisted Development: Code, Test and Maintain with Codex and Claude Code

Training Program



Integrate AI Assistants and Agents into Your Development Workflow, from Requirements to Verified Code.

This course shows how to use Codex and Claude Code to understand an existing codebase, produce and improve code, test it and document it. It combines project context, precise instructions, incremental changes and verification of results.

The workshop uses an existing exercise project and a primary tool, with a comparison of use cases for the other assistant. Participants leave with a tested change, reusable instructions and a method for team validation.

Objectives and target skills

- Choose and integrate an AI assistant into the development environment.
- Provide project context, instructions and verifiable acceptance criteria.
- Analyse an existing codebase, its architecture, technical debt and the risks of a change.
- Generate, correct or refactor code incrementally, then test and document it.
- Collaborate with Product Owners and the team while keeping changes traceable and validated.

Audience	Prerequisites	Duration
✓ Developers, technical project managers and architects.	✓ Software development experience and basic Git knowledge. ✓ Computer with a working development environment and the required installation permissions. ✓ Access to the AI assistant selected for the workshops.	1 day, or 7 hours.

Training content

Understand tools and use cases
- Understand assistants, agents and the changing developer role.
- Compare Codex and Claude Code and select the primary workshop tool.
- Identify limitations and protect secrets and confidential code.

Prepare context and instructions
- Select useful files, conventions, constraints and sources.
- Define the request and acceptance criteria with the Product Owner.
- Prepare a change plan and reusable instructions.

Analyse an existing codebase
- Understand the components and produce an architecture diagram.
- Identify technical debt, dead code and risk areas.
- Select a limited, verifiable change.

Generate, correct and refactor
- Produce code and evolve a function in small steps.
- Refactor existing code or prepare a controlled migration.
- Review differences, explain the changes and record them in Git.

Test and document
- Generate and run relevant unit and integration tests.
- Identify edge cases and check for regressions.
- Document changes, results and identified limitations.

Work with the team
- Connect requirements, acceptance criteria, code and tests.
- Share instructions and define human validation steps.

Workshop and deliverables
- Exercise project modified, tested and presented.
- Reusable technical instructions and architecture diagram.
- Tests, short documentation and Git history.
- Verification checklist for teamwork.

Access conditions

Before the course starts, an initial assessment questionnaire identifies the participant's professional activity, expectations, existing skills and technical environment. An additional discussion is arranged if needed to check that the course is suitable and prepare any necessary adjustments. Enrolment is normally arranged between two months and one week before the course starts, subject to available places, prerequisites and, where applicable, the funding body's processing times. Practical arrangements are provided in the joining instructions. Terms and conditions of sale: https://www.opcoach.com/cgv. The initial assessment identifies the programming languages, development environment, Git experience and intended uses of the AI assistant so that the exercise project can be adapted.

Accessibility for people with disabilities

Participants with disability-related needs are invited to tell OPCoach before the course starts. OPCoach works with them to assess possible teaching, technical and organisational adjustments, including for the initial assessment and learning assessments. Specialist partners may be involved if needed. Disability contact: Chrystèle Lagarde. To be put in touch with her, contact OPCoach at olivier.prouvost@opcoach.ai or +33 6 28 07 65 64.

Training format

The course is trainer-led, on site or remotely, live via Zoom. Demonstrations, exercises and assessments take place during supervised training time.

Group size

Open-enrolment training: 2 to 8 participants. In-company / dedicated training: 1 to 6 participants, on site or remotely.

Fees

Open-enrolment training: **EUR 875 excluding VAT per participant**. A minimum of two enrolments is required. For two or more participants from the same company, the in-company rate applies.

In-company / dedicated training: **EUR 1,250 excluding VAT for two participants, +/− EUR 150 excluding VAT per participant added or removed**, for groups of 1 to 6 participants. Access to the selected AI assistant must be arranged before the course. Subscriptions and third-party services are not included in the fee. The course can be paid for directly by the company or the participant. A funding application may be submitted to the company's French skills funding body (OPCO), subject to its eligibility rules and processing times. Any funding remains subject to the funding body's prior approval.

Schedule

Check the upcoming sessions and arrangements on OPCoach.ai. Availability is updated on this page. For a dedicated session, contact OPCoach.

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. Technical and teaching assistance is provided by Olivier Prouvost during the course: olivier.prouvost@opcoach.ai - +33 6 28 07 65 64.

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. Digital course materials and exercise files are provided to participants. Connection details and instructions for accessing resources are included in the joining instructions. Participants keep the deliverables they produce during the workshops.

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

Attendance is recorded through electronic sign-in, both on site and remotely. For remote training, the trainer also checks completion of activities and each participant's progress. Assessment criteria are presented at the start of the course. Participants implement a change in an exercise project following a plan, then present and justify their changes, tests and identified limitations. Criteria cover precise instructions, understanding of the code, control of scope, test quality, documentation and traceability in Git.

Recognition

This vocational training course is non-certifying: it does not prepare participants for a certification registered in the French National Directory of Professional Certifications (RNCP) or Specific Register (RS). A statement of skills records the learning outcomes observed during assessments. A certificate of completion records actual participation.

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, olivier.prouvost@opcoach.ai