AI Foundations

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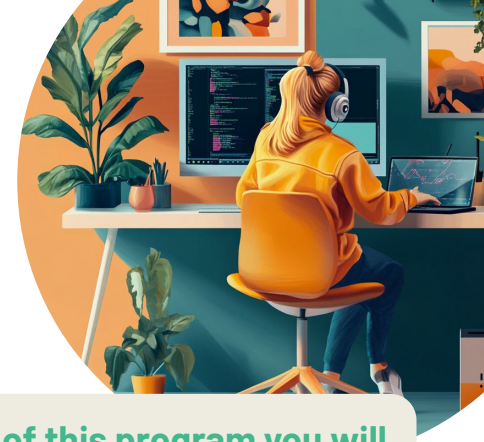
# AI for Coding

Move your engineering team from AI-curious to AI-native in a single day.

LEVEL 1 | 25 participants | Virtual | 8 hours



## Why do you need this?

Over a quarter of all production code is now written by AI. Your developers are almost certainly using AI tools already, but most are scratching the surface: autocomplete, quick refactors, boilerplate.

The real gains come from agentic workflows where engineers direct AI across entire features, reviews, and testing.

This hands-on workshop teaches the workflows, patterns, and judgment calls that turn AI coding tools into a productivity superpower for your engineering team.

## Business Outcomes

- Ship features faster as developers spend less time on boilerplate, tests, and repetitive implementation.
- Higher code quality and consistency through AI-assisted reviews and standardised workflows.
- Faster onboarding as new engineers use AI to navigate and contribute to unfamiliar codebases.
- More time on architecture and hard problems as AI handles the routine work.

## By the end of this program you will

1. Set up and configure AI coding agents with instruction files that enforce your team's standards.
2. Direct agentic workflows for multi-file coding tasks, from planning through to PR.
3. Use AI to generate, run, and iterate on tests as part of a reliable development loop.
4. Know when to trust AI output and when to intervene, with practical review techniques.

**3.6 hrs** avg time saved per developer /week, using AI coding.
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AI for Coding

## How it works

- A full-day, hands-on workshop built around real coding tasks, not slides about theory.
- Tool-agnostic: works with Cursor, Claude Code, Codex.
- Two expert facilitators who use these tools daily in production environments.
- Every module pairs a live demo with a hands-on coding exercise.
- Developers work in their own IDE/terminal setup throughout, so everything transfers immediately.
- Adapted to your team's tech stack, coding standards, and AI maturity level.
- Includes a takeaway playbook with reusable instruction files and workflow templates.

## Application Task

Participants work individually to build on a project using their new agentic workflows. For example:

- Build a new feature for an existing application.
- Prototype a new component.
- Refactor an existing module with a specific brief.

Every module is applied to a this integrated project that runs throughout the day, using AI at every stage.

## Programme Breakdown

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### Intro & The State of AI Coding

A quick pulse on your team's experience with AI, followed by a look at the current landscape of AI coding tools and agents.

### Module 1: Setup and Instructions

Install and configure AI in your IDE or terminal. Write instruction and rules files that enforce your team's coding standards, patterns, and conventions.

### Module 2: Agentic Workflows

Move beyond autocomplete. Learn to direct AI agents on multi-step tasks: planning, implementing across files, running commands, and self-correcting.

### Module 3: Testing with AI

Generate meaningful tests, run them, and iterate until they pass. Build a test-driven workflow where you describe the process and let the agent implement.

### Module 4: Code Review and PRs

Use AI to review code, catch bugs, and prepare pull requests. Build a review loop that combines AI speed with human judgement.

### Module 5: Risks and Guardrails

Understand hallucination, prompt injection, and security risks. Set up safety checks and discuss how this will work with continuous integration setup.

### Your AI Coding Action Plan

Capture key takeaways and set Now/Next/Long-term commitments for how you and your team will adopt AI coding workflows.

### Takeaways

*AI for Coding Playbook* with team instruction files, reusable workflow templates, and a personal action plan.