



## Claude Code 201 Mastery

- 4 Hours
- Lecture and Hands-on Labs

### Course Overview

This advanced course covers Claude Code at the CLI level, moving from basic usage into professional-grade techniques. Participants configure Claude Code via `settings.json`, engineer context using `CLAUDE.md` and `SPEC.md`, execute multi-step agentic workflows, identify and recover from failure modes, apply AI-safe git practices, and learn how expert users actually structure their work. By the end of the session, participants will have a complete mental model of how Claude Code operates under the hood and the habits needed to use it reliably in real engineering workflows.

### Who Should Attend

- Software engineers, developers, and technical staff comfortable with the command line who want to use Claude Code at a professional level

### What You'll Learn

- How to configure Claude Code behavior via `settings.json`
- How to engineer context using `CLAUDE.md` and `SPEC.md`
- How to run advanced agentic, multi-step workflows
- How to recognize and recover from failure modes and drift
- How to apply AI-safe git workflows when reviewing AI-generated changes
- How expert users structure and operate Claude Code in practice

### Outline

#### Claude Code: Session 201 - Mastery Workshop

- Lecture + Lab: Claude Code CLI Power User Setup & `settings.json`
- Lecture + Lab: `CLAUDE.md`, `SPEC.md`, and Context Engineering
- Lecture + Lab: Advanced Agentic Workflows & Multi-Step Execution
- Lecture + Lab: Failure Modes, Drift, and Recovery Techniques
- Lecture + Lab: AI-Safe Git Workflows & Reviewing AI Changes
- Lecture + Lab: How Expert Users Actually Use Claude Code

### Prerequisites

- Prior Course:\*\* Claude Code 101 Foundations (or equivalent experience)
- License:\*\* Students will bring their own Claude Code license
- Software:\*\* Claude Code CLI must be installed on student machines prior to class
- Skills:\*\* Comfort with terminal and command-line workflows