

Training program:

AI-Assisted SDLC - foundations and advanced techniques

Info:

Name: AI-Assisted SDLC - foundations and advanced techniques

Code: ai-assisted

Category: AI

architects developers

Target audience: team_lead

tech_lead testers

Duration: 2 days

Format: 60% praktyki / 40% teorii

Master advanced AI-assisted programming techniques and transform software development. Using AI solely for code generation made sense when this technology was in its infancy. Now, in the age of agent-based AI, we'll show you how to use it as a partner throughout the entire software development process—from requirements analysis and business communication, through implementation, testing and code review, all the way to documentation.

During the training:

- You will learn how to make AI seamlessly handle the things developers hate: task descriptions, tests, logs, documentation.
- You will learn practical techniques for working with AI agents (such as Claude Code).
- You will see how to effectively manage context and integrate AI with everyday tools.
- Step by step, you will go from basic configuration to real workflows that accelerate the work of the entire team.
- You will receive an introduction to advanced topics such as sub-agents for task delegation, MCP for extending functionality, parallel processing mindset, and version control with AI.

This is not just another course about prompts. It's a transformation in the way you work – AI becomes your extra team member, never complaining and always delivering.

Training that will teach you how to use AI as a partner in your software development process. From basic installation to advanced context management techniques – everything you need to start working effectively with AI agents, using the example of Claude Code.

It's all about the content.

- Real-world use cases working on real projects
- Hands-on with Claude Code immediate application of knowledge
- Learning by doing



Training program

1. Introduction to the AI-Assisted Paradigm 1.1. The Evolution of AI Support in Programming 1.2. Mental Models and Changing Your Mindset 1.3. First Steps with Claude Code 1.4. @notation - Precise File References 2. CLAUDE.md Supremacy - Context as the Foundation 2.1. The Philosophy and Power of System Instructions 2.2. Workshop: Analyzing Effective CLAUDE.md 2.3. Workshop: Creating Your Own CLAUDE.md 2.4. Context Poisoning and How to Avoid It 3. Plan Mode, Context, and Work Documentation 3.1. Plan Mode - Think Before You Act 3.2. Context Window Management 3.3. STATUS, md and Context Documentation 3.4. Todo Lists and Progress Tracking 3.5. Workshop: Workflow with Full Documentation 4. Debugging and Tight Feedback Loops 4.1. AI as a Debugger 4.2. Tight Feedback Loops - Writing Execution Iteration 4.3. Workshop: Comprehensive Debugging Session 4.4. Context-Sized Chunking 5. Refactoring and Working with Legacy Code 5.1. A Strategic Approach to Legacy Code

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- 5.2. Batch Operations with CLAUDE.md
- 5.3. Workshop: Refactoring Using CLAUDE.md
- 5.4. Explicit Adherence Pattern

6. Testing with AI and Verification

- 6.1. Test-Driven Development with AI
- 6.2. Testing Levels and Strategy
- 6.3. Workshop: End-to-End Testing
- 6.4. Bash Automation for Test Runners

7. Basics of Subagents and MCP

- 7.1. Task/Agent Tools Delegating Specialized Tasks
- 7.2. MCP (Model Context Protocol) Basics
- 7.3. Version Control with AI
- 7.4. Workshop: End-to-End Workflow with Subagents

8. Best Practices and Optimization

- 8.1. Effective Prompting Mastery
- 8.2. Optimizing Work Performance
- 8.3. Building an AI-Assisted Culture in Your Team