Cursor for AI-Native Development Training

Duration: **2 Day**

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Overview

This training is designed to help software development teams use Cursor beyond basic code completion, positioning it as an AI-powered development environment capable of understanding entire projects and actively supporting software engineering workflows.

Throughout the two-day program, participants will explore Cursor's essential capabilities, work with Agent Mode, and learn how to manage project context effectively. Hands-on scenarios will cover safe refactoring across multiple files, analyzing existing codebases, implementing new features, and accelerating testing and debugging activities with AI assistance.

The advanced part of the training focuses on working with large codebases, managing context and token consumption, improving code quality, and applying security controls. Participants will also examine how to establish consistent Cursor usage across development teams through enterprise policies, reusable prompt templates, and the integration of AI-assisted practices into collaborative software development processes.

By the end of the program, participants will be equipped to incorporate Cursor into their daily development activities and establish a secure, efficient, and standardized approach to using AI-assisted development tools at an enterprise level.

What You Will Learn

By the end of this training, participants will be able to:

- Manage AI-powered software development workflows using Cursor.
- Effectively use Cursor's Chat, Inline Edit, and Agent Mode features.
- Optimize project context and token usage.
- Perform code analysis and refactoring across multiple files.
- Accelerate coding, testing, and debugging with AI assistance.
- Extend development capabilities through MCP integrations.
- Make safe and controlled changes in large codebases.
- Improve code quality, security, and validation processes.
- Integrate Cursor into enterprise development standards and team workflows.

Outline

Day 1 – Cursor Fundamentals and Everyday Development Practices

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1. Understanding AI-Native Development

- Comparing traditional IDEs with the AI-first IDE approach
- Exploring AI-driven software development models
- Applying the Prompt → Plan → Code → Test development cycle
- Understanding Cursor's role in the software development lifecycle

2. Cursor Interface and Essential Capabilities

- Working effectively with the chat panel
- Generating and editing code inline
- Explaining existing code and resolving bugs
- Analyzing diffs and managing code modifications

3. Agent Mode and Context Management

- Understanding Agent Mode and how it operates
- Analyzing code at the project level
- Performing refactoring across multiple files
- Controlling context through file selection
- Optimizing token consumption

4. Practical Daily Development Scenarios

- Implementing new software features
- Exploring and understanding existing codebases
- Generating unit test cases
- Producing code documentation
- Applying code refactoring techniques
- Integrating Model Context Protocol (MCP)

Day 2 – Advanced Cursor Practices and Enterprise Adoption

5. Working with Cursor in Large Codebases

- Using Cursor in monorepo environments

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- Handling context window limitations
- Dividing high-risk modifications into smaller, manageable tasks
- Applying refactoring strategies to large-scale software projects

6. Testing, Debugging, and Code Quality

- Generating unit tests with AI assistance
- Identifying and analyzing edge cases
- Applying performance optimization techniques
- Following Clean Code principles

7. Security and Enterprise Usage

- Reviewing and validating AI-generated code
- Identifying potential security vulnerabilities
- Using AI development tools in regulated industries
- Comparing on-premises and cloud-based model strategies

8. Establishing a Team-Based Cursor Usage Model

- Developing an enterprise Cursor usage policy
- Creating reusable prompt templates
- Incorporating AI into code review workflows
- Supporting sprint planning with AI assistance

9. Final Project: End-to-End Software Development with Cursor

- Analyzing project requirements
- Preparing the technical design
- Generating and implementing code
- Establishing MCP integrations
- Writing and executing tests
- Performing refactoring and security validation
- Generating technical documentation