



Building AI Solutions with Claude Code

Course ID #: 7000-1207-ZZ-Z

Hours: 35

Delivery Method: Group Internet Based

Course Content

Description:

In this course, you will cover: This comprehensive 5-day course is designed to transform participants into AI-empowered practitioners capable of leveraging cutting-edge AI tools to automate workflows, enhance productivity, and solve complex technical challenges. It establishes the core skill of prompt engineering, encompasses n8n workflow automation, introduces Claude Code for AI-assisted development, and gives foundational information on BMAD (Breakthrough Method for Agile AI-Driven Development), a structured spec-driven framework. It culminates in an integration workshop where teams architect and build a real-world solution. By the end of the course, participants will be able to design, build, and govern AI-enhanced IT systems.

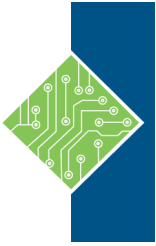
Objectives:

- Upon successful completion of this course, students will:
- Learn practical AI skills that immediately improve IT productivity and efficiency.
- Master prompt engineering techniques for consistent, high-quality AI outputs.
- Build automated business and IT workflows using n8n.
- Learn to develop software faster using Claude Code AI-assisted development.
- Understand the BMAD methodology for structured AI-driven software development.
- Integrate multiple AI technologies into enterprise-ready solutions.
- Improve troubleshooting, documentation, and technical writing through AI.
- Develop production-ready AI workflows using security and governance best practices.
- Reduce repetitive IT tasks through intelligent automation.
- Build confidence implementing AI solutions in real-world enterprise environments.
- Create reusable prompt libraries, workflow templates, and development standards.
- Complete an end-to-end AI implementation project applicable to the workplace.

Prerequisites:

Required Prerequisites

- Working knowledge of Windows, Linux, or macOS.
- Basic programming experience in at least one language.
- Experience using command-line interfaces.
- General understanding of networking fundamentals.
- Experience with IT administration, DevOps, software development, or systems engineering.
- Ability to install software and manage local development environments.



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- Active AI service accounts, such as Claude, OpenAI, or an equivalent service, when using personal environments.
- A laptop or computer capable of running modern development tools and browsers.

Useful Prerequisites

- Experience using Git and GitHub.
- Familiarity with Docker containers.
- Knowledge of JSON and YAML.
- Experience with PowerShell, Bash, or Python scripting.
- Basic cloud computing knowledge, including Azure, AWS, or Google Cloud.
- Familiarity with Agile or Scrum methodologies.
- Experience using ticketing systems such as Jira or ServiceNow.
- Basic database knowledge, including SQL or NoSQL.
- Previous exposure to workflow automation tools.
- Understanding of CI/CD pipelines.

Target Audience:

- Software developers and application engineers
- DevOps engineers and automation specialists
- Systems administrators and IT operations professionals
- Technical consultants, architects, and team leads
- Professionals seeking to implement AI-driven workflows and AI-assisted development solutions in enterprise environments

Topics:

Lesson 1: Foundations of Effective AI Communication

Lesson 7: Advanced n8n Integrations

Lesson 2: Advanced Prompting Strategies

Lesson 8: Production-Ready n8n Deployments

Lesson 3: Specialized IT Prompting Techniques

Lesson 9: Introduction to Claude Code

Lesson 4: Prompt Engineering Workshop

Lesson 10: Effective Code Generation Strategies

Lesson 5: n8n Fundamentals and Architecture

Lesson 11: Advanced Claude Code Techniques

Lesson 6: Building AI-Enhanced Workflows

Lesson 12: Claude Code in Team Environments



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Lesson 13: BMAD Framework Fundamentals

Lesson 17: Project Planning and Architecture

Lesson 14: Building AI Solutions with BMAD

Lesson 18: Hands-on Implementation Sprint

Lesson 15: Measurement and Adaptation Strategies

Lesson 19: Testing, Optimization, and Documentation

Lesson 16: Deployment and Scaling Excellence

Lesson 20: Final Presentations and Future Roadmap

Register for this class by visiting us at:

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NASBA CPE details are provided on the following pages.



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NASBA Information

Level: Intermediate/Advanced

Advanced Preparation: See Pre-requisites

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.

Recommended Field(s) of Study: Computer Software & Applications

Recommended CPEs: 39.00

Policies: Course Registration, Cancellation, Refund, and Complaint Resolution

For more information regarding administrative policies such as complaint and program cancellation policies, please contact our offices at 800-639-3535 or visit us at: www.tcworkshop.com

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