

CERTIFICATION COURSES

BY **ANTHROPIC**

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**Claude with the
Anthropic API**

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**Claude with
Amazon Bedrock**

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**Claude with
Google Cloud's
Vertex AI**

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**Introduction to
Model Context
Protocol**

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**Model Context
Protocol:
Advanced Topics**

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Access Free

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**Claude Code
in Action**

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SLIDE TO KNOW MORE

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Claude with the Anthropic API

This course provides comprehensive coverage of the Anthropic API, from basic usage through advanced agent architectures. You'll learn to integrate Claude into applications, implement tool calling, build RAG pipelines, and design both deterministic workflows and flexible agent systems.

Learning objectives

By the end of this course, you'll be able to:

- Make API requests to Claude models and handle responses
- Implement multi-turn conversations, streaming, and structured output generation
- Build and evaluate prompts systematically using automated testing pipelines
- Create custom tools and integrate Claude with external services
- Design and implement RAG systems with hybrid search and reranking
- Use MCP (Model Context Protocol) to connect Claude to various data sources
- Understand common workflows and agent architectures

Prerequisites

- Proficiency in Python programming
- Basic knowledge of handling JSON data
- Access to an Anthropic API key

Who this course is for

Software engineers who need to integrate Claude into production applications. Whether you're building chatbots, automation tools, or AI-powered features, this course covers the implementation patterns you'll need.

85 lectures **8** hours of video **10** quizzes ✓ Certificate of completion

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Claude with Amazon Bedrock

This course covers using Claude models through AWS Bedrock API, from basic requests through advanced agent implementations. You'll learn to make API calls, implement tool use, build RAG pipelines, work with MCP servers, and leverage features like Claude Code and computer use for automation.

Learning objectives

By the end of this course, you'll be able to:

- Make requests to Claude models via AWS Bedrock using boto3
- Implement multi-turn conversations, streaming responses, and structured data extraction
- Build and evaluate prompts using automated testing pipelines with objective scoring
- Create custom tools and handle multi-step tool execution workflows
- Design RAG systems with text chunking, embeddings, and hybrid search (semantic + BM25)
- Connect Claude to external services using MCP (Model Context Protocol) servers
- Use Claude Code for automated development workflows and parallelized task execution
- Configure and optimize features like prompt caching, extended thinking, and image processing
- Implement computer use for automated testing and UI interaction

Prerequisites

- Proficiency in Python programming
- Basic knowledge of handling JSON data
- AWS account with Bedrock access

Who this course is for

Devs who want to add AI features to their apps

85 lectures **8** hours of video **10** quizzes ✓ Certificate of completion

Claude with Google Cloud's Vertex AI

This course covers using Claude models through Google Cloud's Vertex AI platform. You'll implement core API features like streaming and tool use, build systematic prompt evaluation pipelines, understand RAG systems, and investigate agent architectures.

Learning objectives

By the end of this course, you'll be able to:

- Set up and authenticate Claude through Vertex AI using the Anthropic SDK
- Select appropriate Claude models based on intelligence, speed, and cost trade-offs
- Write and systematically evaluate prompts using objective scoring metrics
- Implement tool calling for web search, file operations, and custom functionality
- Build RAG pipelines with text chunking, embeddings, and hybrid search
- Use advanced features like extended thinking, citations, and prompt caching
- Connect Claude to external services using MCP (Model Context Protocol)
- Design workflows for known task sequences and agents for flexible problem-solving


Prerequisites

- Proficiency in Python programming
- Basic knowledge of handling JSON data
- A Google Cloud account with Vertex AI access

Who this course is for

Devs who want to add AI features to their apps

85 lectures **8** hours of video **10** quizzes ✓ Certificate of completion

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Introduction to Model Context Protocol

This course covers MCP, a protocol for connecting Claude to external services and data sources without manually writing tool schemas. You'll learn to build both MCP servers that expose tools, resources, and prompts, and MCP clients that consume them. The course includes a hands-on project where you implement a document management system using MCP.

Learning objectives

By the end of this course, you'll be able to:

- Understand MCP architecture and the client-server communication model
- Build MCP servers that expose tools using the Python SDK
- Implement MCP clients to connect your applications to MCP servers
- Create resources for exposing data and prompts for pre-defined workflows
- Test and debug MCP servers using the MCP Inspector
- Choose between tools, resources, and prompts based on control patterns
- Handle resource cleanup and async communication in MCP implementations


Prerequisites

- Basic Python programming experience
- Understanding of async/await patterns
- Familiarity with API concepts

Who this course is for

Engineers who want to integrate Claude with external tools and services without writing tons of boilerplate integration code

16 lectures **1** hour of video **1** quiz ✓ Certificate of completion

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Model Context Protocol: Advanced Topics

This course covers the technical implementation of MCP servers and clients, from basic message passing to production deployment strategies. You'll learn how MCP enables language models like Claude to interact with external tools and data sources through standardized protocols, transports, and message formats.

Learning objectives

By the end of this course, you'll be able to:

- Implement MCP servers with tool functions, logging, and progress notifications
- Handle bidirectional communication between MCP clients and servers
- Configure file system access using the roots permission model
- Work with both stdio and HTTP transports for local and remote deployments
- Implement sampling callbacks to enable server-initiated LLM requests
- Debug message flows using JSON-RPC message types
- Deploy scalable MCP servers using stateless HTTP configurations
- Troubleshoot common issues when transitioning from development to production


Prerequisites

- Basic understanding of MCP servers and clients
- Familiarity with async programming patterns

Who this course is for

Engineers building production MCP servers who need to understand the protocol's advanced capabilities

15 lectures **1.1** hours of video **2** quizzes ✓ Certificate of completion

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Claude Code in Action

This course covers Claude Code, a command-line AI assistant that uses language models to perform development tasks. You'll learn how Claude Code reads files, executes commands, and modifies code through its tool system, along with techniques for managing context, creating custom workflows, and integrating with external services.

Learning objectives

By the end of this course, you'll be able to:

- Use Claude Code's core tools for file manipulation, command execution, and code analysis
- Manage context effectively using /init, Claude.md files, and @ mentions
- Control conversation flow with a variety of hotkeys and commands
- Enable Plan Mode and Thinking Mode for complex tasks requiring deeper analysis
- Create custom commands for automating repetitive development workflows
- Extend Claude Code with MCP servers to add browser automation and other capabilities
- Set up GitHub integration for automated PR reviews and issue handling

Prerequisites

- Basic familiarity with command line interfaces
- Access to Claude Code and an API key

Who this course is for

Engineers who want to speed up their development workflow with AI assistance

10 lectures **0.6** hours of video ✓ Certificate of completion

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