
Cisco AI Technical Practitioner (AITECH)

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***

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Course Duration

2 Days

Course Price

\$1,995.00

20 CLCs

Methods of Delivery

In-Person ILT

Virtual ILT

Onsite ILT

About this Class

The Cisco AI Technical Practitioner training is designed for technical professionals seeking to transition from traditional knowledge-based work to innovation-driven roles augmented by Artificial Intelligence (AI). This comprehensive program equips you with the skills to effectively design technical solutions, automate tasks, and lead technical teams using cutting-edge AI tools and methodologies. From AI-powered code generation and data analysis to advanced model customization and workflow automation, this training prepares IT and network engineers, data analysts, AIOps specialists, solutions architects, technical leads, managers, and business process analysts to harness the full potential of AI within their organizations.

This training prepares you for the 810-110 AITECH v1.0 exam. If passed, you earn the AI Technical Practitioner certification. This training also earns you 8 Continuing Education (CE) credits toward recertification.

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Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- IT and Network Engineers
- Data Analysts
- AIOPs Specialists
- Solutions Architects
- Technical Leads
- Managers
- Business Process Analysts

Prerequisites

To fully benefit from this course, you should have the following knowledge:

- Transition from traditional knowledge-based work to innovation-driven roles by learning AI-augmented workflows and methodologies
- Gain hands-on expertise in advanced prompt engineering, AI-powered code generation, and multimodal asset creation (text, visual, and audio)
- Learn to evaluate AI platforms for enterprise readiness, analyze the economics of AI services, and architect deployments between cloud and local environments
- Acquire the skills to apply security frameworks that mitigate dataset bias, protect sensitive information, and neutralize AI-specific threats
- Gain the ability to automate complex tasks using APIs, optimize software engineering lifecycles, and design autonomous agentic systems
- Prepare for the 810-110 AITECH v1.0 exam
- Earn 8 CE credits toward recertification

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Objectives

After taking this course, you should be able to:

- Describe common Generative AI models, tools, and practical workflows
- Apply a strategic framework to build a professional AI toolkit by evaluating platforms for enterprise readiness, analyzing AI service economics, and making the architectural decision between cloud and local deployment
- Explain the importance of effective prompts and apply basic techniques to craft and refine prompts for improved Generative AI outputs
- Develop multimodal business assets by utilizing generative AI tools to create and refine text, visual, and audio content
- Apply security frameworks and governance practices to mitigate dataset bias, protect sensitive data, and neutralize AI-specific threats
- Validate AI-generated outputs by identifying quality issues and biases, and applying specific techniques to correct those errors for professional use
- Construct complex, multi-step prompts by applying advanced methodologies to manage ambiguity and elicit specific LLM responses
- Apply generative AI tools to conduct research and synthesize information, and use AI as a catalyst for brainstorming
- Explain the fundamental role of APIs in AI systems and the principles of secure API usage
- Evaluate the impact of AI on software engineering workflows by analyzing its role in optimizing code quality, velocity, and lifecycle management
- Conduct exploratory data analysis and transformation by utilizing generative AI tools to clean datasets and generative insights
- Evaluate AI model customization strategies by differentiating between fine-tuning and RAG and analyzing local deployment architectures
- Design directive AI-powered workflows and describe the architecture of autonomous agentic systems

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Course Outline

- Module 1: Generative AI Ecosystem
- Module 2: AI Architect's Toolkit
- Module 3: Prompt Engineering for Technical Precision
- Module 4: AI-Driven Multimodal Asset Creation
- Module 5: Generative AI Security and Privacy Fundamentals
- Module 6: Debugging and Correcting AI-Generated Outputs
- Module 7: Advanced Prompting Strategies
- Module 8: AI-Powered Discovery and Synthesis
- Module 9: AI Systems Integration with APIs
- Module 10: AI-Driven Software Engineering
- Module 11: AI for Data Engineering and Exploration
- Module 12: Customizing AI Models
- Module 13: AI-Powered Workflows and Agentic AI