Cisco AI Technical Practitioner

Duration: 2 Days **Course Code: AITECH** **Version: 1.0** **Delivery Method: Company Event**

Overview:

Accelerate your transition to AI-driven innovation by designing solutions, automating tasks, and leading teams using cutting-edge AI tools and methodologies.

The **Cisco AI Technical Practitioner (AITECH)** 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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Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

This Course is intended for the following participants:
- IT and Network Engineers
- Data Analysts
- AIOPs Specialists
- Solutions Architects
- Technical Leads
- Managers
- Business Process Analysts

Objectives:

- After this course participants 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
- 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

biases, and applying specific techniques to correct those errors for professional use

of autonomous agentic systems

Prerequisites:

- There are no prerequisites for this training.

Testing and Certification

Cisco AI Technical Practitioner (810-110 AITECH) v1.0 is a 60-minute exam associated with the AI Technical Practitioner certification.

This exam tests your knowledge and skills related to:

- Generative AI models
- Prompt engineering
- AI ethics and security
- Data research and analysis
- AI for Code and Workflow Optimization
- Agentic AI

Follow-on-Courses:

- None recommended

Content:

- Generative AI Ecosystem
- AI Architect's Toolkit
- Prompt Engineering for Technical Precision
- AI-Driven Multimodal Asset Creation
- Generative AI Security and Privacy Fundamentals
- Debugging and Correcting AI-Generated Outputs
- Advanced Prompting Strategies
- AI-Powered Discovery and Synthesis
- AI Systems Integration with APIs
- AI-Driven Software Engineering
- AI for Data Engineering and Exploration
- Customizing AI Models
- AI-Powered Workflows and Agentic AI

Additional Information:

"Official course book provided to participants."

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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