Cisco AI Technical Practitioner

Category: AI, Data & Analytics | **Vendor:** Cisco

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Related Exam: 810-110

Course Overview

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.

How You'll Benefit

This training will help you:

- 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

What to Expect in the Exam

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

About This Course

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Who Should Attend

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

Prerequisites & Entry Requirements

General Prerequisites:

There are no prerequisites for this training.

Learning Outcomes

Upon successful completion of this course, participants will 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

Detailed Course Outline

- 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

Skills You Will Learn:

- 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
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Frequently Asked Questions

Q: What delivery options are available for Cisco AI Technical Practitioner?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: Which exam does this course prepare me for?

This course prepares you for the 810-110 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 2-day Cisco AI Technical Practitioner course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Cisco AI Technical Practitioner training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Cisco AI Technical Practitioner?

Yes, we provide corporate training, dedicated training, and closed classes for Cisco AI Technical Practitioner. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Cisco AI Technical Practitioner, Cisco AI Solutions, AITECH

Q: Why choose Nexus Human for Cisco AI Technical Practitioner?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Cisco AI Technical Practitioner training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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