CISCO 810-110

Cisco AI Technical Practitioner Certification Questions & Answers

Exam Summary – Syllabus – Questions

810-110

Cisco AI Technical Practitioner

40-60 Questions Exam – Variable (750-850 / 1000 Approx.) Cut Score – Duration of 40-60 minutes

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Know Your 810-110 Certification Well:

The 810-110 is best suitable for candidates who want to gain knowledge in the Cisco AI. Before you start your 810-110 preparation you may struggle to get all the crucial AI Technical Practitioner materials like 810-110 syllabus, sample questions, study guide.

But don't worry the 810-110 PDF is here to help you prepare in a stress-free manner.
The PDF is a combination of all your queries like-

- What is in the 810-110 syllabus?
- How many questions are there in the 810-110 exam?
- Which Practice test would help me to pass the 810-110 exam at the first attempt?

Passing the 810-110 exam makes you Cisco AI Technical Practitioner. Having the AI Technical Practitioner certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

Cisco 810-110 AI Technical Practitioner Certification Details:

Exam Name	Cisco AI Technical Practitioner
Exam Code	810-110
Exam Price	$150 USD
Duration	60 minutes
Number of Questions	40-60
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	**Cisco AI Technical Practitioner | AITECH**
Exam Registration	**PEARSON VUE**
Sample Questions	**Cisco 810-110 Sample Questions**

Practice Exam	Cisco AI Technical Practitioner Practice Test

810-110 Syllabus:

Section	Weight	Objectives
Generative AI Models	20%	- Describe major generative AI model families (e.g., LLMs, diffusion models) and common use cases (text summarization, content creation, code generation) - Compare model hosting options (cloud-hosted vs locally hosted) and their trade-offs (cost, latency, privacy, scalability) - Explain role of context windows, token limits and response management - Understand model selection in AI model hubs and repositories for appropriate use-cases (e.g., reasoning, multimodality) - Describe Retrieval Augmented Generation (RAG) and role of embeddings and vector databases
Prompt Engineering	15%	- Understand prompt engineering principles and patterns (roles, instructions, constraints) - Explain prompting techniques (iterative/sequential, chained, few-shot) and structures for text, image and audio generation - Describe prompt injection attack types - Explain defensive prompting and mitigation strategies for AI-generated errors (e.g., hallucinations)
Ethics and Security	15%	- Explain responsible AI principles (fairness, transparency, accountability, bias mitigation, safety) - Describe approaches to protect corporate data privacy and security in AI systems - Explain AI-specific security threats and risks, including misinformation

Section	Weight	Objectives
		- Explain AI governance considerations (policy, risk management, compliance)
Data Research and Analysis	10%	- Explain AI's role in exploratory data analysis (EDA) - Describe automated data preparation tasks (quality checks, formatting, transformation, cleaning) - Explain the ethical and privacy considerations in AI-assisted data analysis, including controls to prevent data exposure - Describe techniques for AI-assisted research, ideation, and content drafting
Development and Workflow Automation	20%	- Describe AI's role across the software development lifecycle (requirements, prototyping, implementation, testing, deployment) - Describe the AI capabilities for code generation and rapid prototyping - Explain AI workflow design and monitoring principles - Describe how token usage and context-window management affect prototyping cost, latency, and output quality - Explain how AI improves code quality (debugging assistance, error handling, documentation)
Agentic AI	20%	- Differentiate Agentic AI from Generative AI use cases - Explain AI agent design principles, autonomous capabilities, and orchestration - Describe Model Context Protocol (MCP) framework primitives in context of agentic AI - Explain human-in-the-loop (HITL) strategies - Describe data transformation and mapping within AI Agents

Cisco 810-110 Sample Questions:

Question: 1

Few-shot prompting is often recommended when working with specialized or domain-specific tasks. This technique relies on providing examples to guide the model's behavior. Why do examples improve model performance in these scenarios?

a) They demonstrate desired patterns and structure
b) They retrain the model dynamically
c) They increase the model's context window
d) They reduce token consumption

Answer: a

Question: 2

Bias in AI systems can lead to unfair or harmful outcomes, particularly when models are used in decision-support roles. Organizations must address this risk proactively. Which action most directly helps mitigate bias?

a) Increasing inference speed
b) Auditing training and input data for representation gaps
c) Expanding context window size
d) Disabling model logging

Answer: b

Question: 3

During automated data preparation, an AI system flags missing values and inconsistent formats across multiple data sources. This step occurs before analysis or modeling begins. Which task category is the AI primarily performing?

a) Feature engineering
b) Data quality checking and cleaning
c) Model evaluation
d) Prompt optimization

Answer: b

Question: 4

Why is explainability particularly important when AI systems support human decision-making? Decision-makers must trust and understand recommendations before acting on them.

a) It increases model speed
b) It enables informed oversight and challenge
c) It reduces infrastructure cost
d) It eliminates bias entirely

Answer: b

Question: 5

When designing prompts for image and audio generation, practitioners often adjust structure differently than for text-only tasks. This is because multimodal outputs require clearer intent signaling. What is the main reason for this difference?

a) Multimodal models ignore constraints
b) Token limits do not apply to images or audio
c) Few-shot prompting is unsupported
d) Non-text outputs require precise guidance on format and attributes

Answer: d

Question: 6

Which use case is best suited for diffusion models rather than LLMs?

a) Sentiment analysis
b) Image synthesis from noise
c) Chat-based question answering
d) Code refactoring

Answer: b

Question: 7

What is the primary role of a context window in generative AI systems?

a) Enforcing ethical constraints
b) Controlling model accuracy
c) Defining maximum memory for a single interaction
d) Limiting training data size

Answer: c

Question: 8

Security teams often restrict training or prompting AI models with sensitive customer data. This reduces risk but may limit usefulness. What is the primary trade-off being managed?

a) Performance versus privacy
b) Speed versus accuracy
c) Automation versus scalability
d) Cost versus latency

Answer: a

Question: 9

An AI practitioner is assessing threats unique to AI systems rather than traditional IT systems. They want to focus on risks introduced by generative capabilities. Which threat is AI-specific?

a) Network congestion
b) Hardware failure
c) Distributed denial-of-service
d) Prompt injection

Answer: d

Question: 10

Misinformation generated by AI systems poses reputational and operational risks. This risk increases when outputs are shared without verification. Which mitigation strategy best addresses this concern?

a) Human-in-the-loop validation
b) Autonomous deployment without review
c) Larger context windows
d) Reduced logging

Answer: a

Study Guide to Crack Cisco AI Technical Practitioner 810-110 Exam:

- Getting details of the 810-110 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the 810-110 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the Cisco provided training for 810-110 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the 810-110 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on 810-110 practice tests is must. Continuous practice will make you an expert in all syllabus areas.