



AI+ CONTEXT ENGINEERING PRACTITIONER™

Certification



Executive Summary

The AI+ Context Engineering Practitioner certification program is designed to equip professionals with the knowledge and skills necessary to integrate artificial intelligence in context-aware systems. It covers key concepts like machine learning, natural language processing, and data analytics, enabling participants to create intelligent systems that can adapt to varying environments. The program emphasizes real-world applications in areas such as IoT, smart devices, and personalized experiences. Participants will gain hands-on experience in deploying AI models that respond to dynamic contexts, making them proficient in developing cutting-edge, adaptive solutions. This certification prepares professionals for roles in AI-driven industries

Prerequisites

- **Basic Programming Knowledge:** Familiarity with Python, Java, or similar languages.
- **Understanding of AI Concepts:** Basic knowledge of machine learning and AI.
- **Data Handling Skills:** Ability to work with datasets and preprocessing techniques.
- **Experience with IoT:** Familiarity with Internet of Things applications.
- **Familiarity with Cloud Platforms:** Basic knowledge of cloud-based AI services.

Exam Blueprint

Number
of Questions

50

Passing
Score

35/50 or 70%

Duration

90 Minutes

Format

**Online via AI
Proctoring platform**

Question Type

**Multiple Choice/Multiple
Response**

Exam Overview

Module	Weight
Foundations of Context Engineering	7%
Context Management Patterns & Techniques	15%
The Context Pipeline, RAG, and Grounding Architecture	15%
Optimization, Scaling, and Enterprise Readiness	15%
Context Flow Design for Business Users: Architecting Reliable AI via No-Code Platforms	12%
Real-World Industry Context Applications	12%
Multi-Agent Orchestration & The Future	12%
Capstone	12%
	100%

The logo for AI CERTs, featuring a stylized 'AI' in orange and 'CERTs' in black, with a registered trademark symbol.

AI CERTs®

AI⁺

Context Engineering
Practitioner™

Certification Modules

Module 1

Foundations of Context Engineering

1.1 What is Context Engineering?

1.2 The Paradigm Shift: From Prompt to Context

1.3 The Four Building Blocks of Context

1.4 The Core Benefits of Context Engineering

1.5 LLM Memory and Context

1.6 Case Studies in Production Context Engineering

Module 2

Context Management Patterns & Techniques

2.1 The Context Management Framework

2.2 WRITE Context (Defining Identity and State)

2.3 SELECT Context (Precision Retrieval)

2.4 COMPRESS Context (Efficiency and Scaling)

2.5 ISOLATE Context (Defining Boundaries and Scope)

2.6 Advanced Retrieval & Compression Techniques (LlamaIndex/LangChain)

2.7 Tool Selection as Context

2.8 Case Studies – From Branching Reasoning to Unified Context Flow

2.9 Conclusion and Module Summary

Module 3

The Context Pipeline, RAG, and Grounding Architecture

3.1 The Context Pipeline: An End-to-End System View

3.2 Retrieval-Augmented Generation (RAG) Architecture Deep Dive

3.3 Conceptual & Practical Vector Databases

3.4 Context Quality Challenges: Grounding Failures and Mitigation

3.5 Orchestration Frameworks: Building State and Flow

3.6 Case Study: Anthropic's Multi-Agent Researcher

Module 4

Optimization, Scaling, and Enterprise Readiness

4.1 Cost and Performance Optimization: The Economic Context Pipeline

4.2 Context Scaling and the Model Context Protocol (MCP)

4.3 Security and Compliance: Guardrails for Enterprise Context

4.4 Context Consistency & Conflict Resolution

4.5 Multi-Modal Context: Unlocking Unstructured Enterprise Data

4.6 Real-World Case Studies

Module 5

Context Flow Design for Business Users: Architecting Reliable AI via No-Code Platforms

5.1 Introduction to Context Flow Architecture for the Business User

5.2 Mapping Business Processes to AI-Ready Context Flows

5.3 No-Code Tools for Flow Control: Implementing W-S-C-I Visually

5.4 Business-Friendly Context Management: Templates and Summaries

5.5 Designing a Dynamic Customer Onboarding Assistant

5.6 Context for Automated Workflows: The Link to AWA

5.7 Real-World Enterprise Success in Context Flow Design

Module 6

Real-World Industry Context Applications

6.1 The Context Engineering Imperative in Regulated Domains

6.2 Healthcare: Clinical Decision Support and Patient Safety

6.3 Finance: Real-Time Analysis and Regulatory Adherence

6.4 Legal and Education: Precision and Personalized Context

6.5 Industry Context Risk Mitigation

6.6 Context Engineering for Advanced AI Agents

6.7 Detailed Real-World Case Studies

6.8 Conclusion and Module Summary

Module 7

Multi-Agent Orchestration & The Future

7.1 The Architectural Imperative of Multi-Agent Systems

7.2 Multi-Agent Context Communication & Flow Design

7.3 Controlling Agent Behavior through System Context and Guardrails

7.4 Future Trends: The Impact of Scale and Automation

7.5 Ethics & Responsible Use in Coordinated Systems

7.6 Case Studies in Enterprise Multi-Agent Deployment

7.7 Career Pathways: The Context Architect and AI Governance

Module 8

Capstone

8.1 Title: Multi-Agent Query Router with Financial Calculations & Policy RAG (n8n implementation)

Certification Outcome

Upon successful completion of the AI+ Context Engineering Practitioner course, learners will have a deep understanding of AI-driven context modeling and its application in real-world scenarios. They will be equipped with the skills to implement contextual AI systems across various industries, optimizing processes and decision-making. Learners will gain proficiency in advanced AI algorithms, data manipulation, and analysis, enabling them to design systems that enhance user experiences and automate complex tasks. The certification validates their expertise in AI context engineering, empowering them to contribute to cutting-edge innovations in AI and automation within their organizations or career pursuit.



Market Insight

The demand for skilled AI architects is rapidly growing as enterprises increasingly rely on AI to streamline operations and ensure compliance. The AI+ Context Engineering Practitioner certification prepares professionals to meet the evolving needs of industries like healthcare, finance, and legal.



Value Proposition

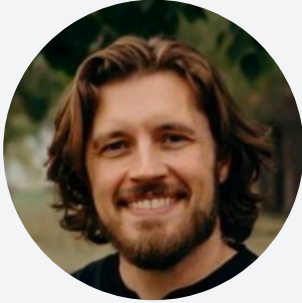
The AI+ Context Engineering Practitioner course offers hands-on experience with real-world applications, empowering learners to design reliable, scalable, and compliant AI systems. By mastering context management strategies, graduates can create solutions that enhance efficiency, reduce errors, and ensure regulatory compliance in high-stakes environments.



Additional Features

This certification includes practical projects using no-code platforms, multi-agent systems, and advanced context engineering techniques. Learners gain access to a community of experts, real-world case studies, and ongoing updates to stay ahead of industry trends in AI architecture and governance.

AI Experts



Jason Kellington

AI Expert

As a consultant, trainer, and technical writer with more than 25 years of experience in IT, I specialize in the development and delivery of solutions focused on effective and efficient enterprise IT.



Justin Frébault

AI Expert

I'm a boutique data consultant specializing in data mesh and lakehouse solutions. I've dedicated my career to helping organizations transform their approach to data, moving beyond mere knowledge.



J Tom Kinser

AI Expert

I have over forty years of experience in software development, data engineering, management, and technical training. I am a Microsoft Certified Trainer and a software developer, holding multiple certifications.



Terumi Laskowsky

AI Expert

Country Manager for Global Consulting Services in Japan, Specialties: Information Security (Compliance, Policy, Application, Host, Network)



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