



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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# AI+ Prompt Engineer Level 1™

|              |               |                   |
|--------------|---------------|-------------------|
| <b>CODE:</b> | <b>DURÉE:</b> | <b>PRIX H.T.:</b> |
| AIC_AC-130   | 7 Hours       | €195.00           |

## Description

### Mastering Advanced Techniques for Effective AI Prompting

- **Prompt Mastery:** Learn to design, refine, and optimise prompts across AI applications
- **Hands-On Learning:** Gain practical experience with advanced tools for prompt integration
- **Real-World Focus:** Solve real-world challenges using AI-driven prompt solutions
- **Advanced Curriculum:** Emphasises experimentation, project execution, and innovation
- **Leadership-Oriented:** Ideal for professionals bridging the gap between AI innovation and application.

### At a Glance: Course + Exam Overview

- **Included:** Self-paced course + Official exam + Digital badge
- **Delivery:** Delivery Online labs, projects, case studies
- **Outcome:** Industry-recognized credential + hands-on experience

### The following tools will be explored in this course:

- ChatGPT
- LangChain
- BetterPrompt
- GitHub Copilot

### What's Included (One-Year Subscription + All Updates):

- High-Quality Videos, E-book (PDF & Audio), and Podcasts
- AI Mentor for Personalized Guidance
- Quizzes, Assessments, and Course Resources
- Online Proctored Exam with One Free Retake
- Comprehensive Exam Study Guide
- Access for Tablet & Phone

## Objectifs

- Advanced Prompt Engineering Techniques
- Crafting and Optimizing Prompts
- Integrating Prompts with Development Tools
- Applying Prompts Across Diverse Domains
- Real-World AI Project Experience
- Advanced Strategies in Prompt Engineering
- Experimentation and Optimization of Prompts
- Creating AI-Driven Solutions

## Audience

- **AI Developers:**

Enhance your prompt engineering skills and optimize AI-driven applications for diverse use cases.

- **Machine Learning Enthusiasts:**  
Learn how to fine-tune models and improve AI performance with advanced prompting techniques.
- **Tech Professionals:**  
Integrate cutting-edge prompt engineering strategies into your AI solutions for greater impact.
- **Students & New Graduates:**  
Gain expertise in prompt engineering and boost your career prospects in the fast-growing AI field.
- **AI Researchers & Practitioners:**  
Deepen your knowledge of AI models and develop advanced prompt engineering techniques for real-world applications.

## Prérequis

- Familiarity with at least one programming language (Python recommended).
- Basic knowledge of RESTful services and API interactions.
- Basic understanding of AI concepts and language models.

## Programme

### Module 1: Introduction to Prompt Engineering for Developers

- 1.1 Overview of Prompt Engineering
- 1.2 Basics of API Interaction
- 1.3 Understanding Prompt Structures
- 1.4 Case Studies and Best Practices
- 1.5 Hands-on Exercise

### Module 2: Advanced Prompt Design and Engineering

- 2.1 Designing Advanced Prompt Techniques
- 2.2 Designing Multi-Turn Interactions
- 2.3 Contextual and Conditional Prompting
- 2.4 Crafting Domain-Specific Prompts
- 2.5 Contextual and Stateful Prompt Engineering
- 2.6 Meta-Prompting and Autonomous Refinement
- 2.7 Hands-on Exercise

### Module 3: Experimentation and Optimization

- 3.1 Automated Prompt Optimization Tools
- 3.2 A/B Testing and Evaluation
- 3.3 Reinforcement Learning for Prompt Engineering

### Module 4: Designing Advanced Strategies for Prompt Engineering

- 4.1 Contextual and Role-Based Prompting
- 4.2 Adaptive and Multimodal Prompting

### Module 5: Integration with Development Tools

- 5.1 Integrating with Popular Development Tools for Prompt Engineering
- 5.2 Code Repositories and Templates for Prompt Engineering
- 5.3 Developer Communities and Forums for Prompt Engineering
- 5.4 Version Control in Prompt Engineering Projects

### Module 6: Applications of Prompt Engineering in Various Domains

- 6.1 Natural Language Processing (NLP) Applications using Prompt Engineering
- 6.2 Business Applications using Prompt Engineering
- 6.3 Creative Applications using Prompt Engineering

### Module 7: Project-Based Learning: Real-World AI Projects using Prompt Engineering

- 7.1 Project 1: AI-Driven Application Development
- 7.2 Project 2: Advanced Prompt Optimization in Production
- 7.3 Project 3: Domain-Specific Prompt Engineering Solutions

### Optional Module: AI Agents for Prompt Engineering

1. What Are AI Agents
2. Applications and Trends of AI Agents for Prompt Engineers
3. Importance of AI Agents
4. Types of AI Agents

## Follow on courses

### Recommended Certifications:

**AI+ Engineer™** (AT-330 ) - Innovate Engineering: Leverage AI-Driven Smart Solutions

**AI+ Developer™** (AT-310) - Get hands-on with the tools and technologies that power the AI ecosystem.

## Test et Certification

### Exam Details

- Duration: 90 minutes
- Passing Score: 70% (35/50)
- Format: 50 multiple-choice/multiple-response questions
- Delivery Method: Online via proctored exam platform (flexible scheduling)

### Exam Blueprint

- Introduction to Prompt Engineering - 10%
- Advanced Prompt Design and Engineering - 15%
- Experimentation and Optimization - 15%
- Designing Advanced Strategies for Prompt Engineering - 15%
- Integration with Development Tools - 15%
- Applications of Prompt Engineering in Various Domains - 15%
- Project-Based Learning: Real-World AI Projects - 15%

## Dates de session

| Date        | Lieu | Time Zone | Langue  | Type                | Garanti | PRIX H.T. |
|-------------|------|-----------|---------|---------------------|---------|-----------|
| 01 Jan 0001 |      |           | English | Self Paced Training |         | €195.00   |

## Informations

### Complémentaires

[Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.](#)