Enterprise Computing Solutions - Education Services

TRAINING OFFERING

You can reach us at:

Arrow Enterprise Computing Solutions Ltd, Part 1st Floor, Suite 1D/1, Central House, Otley Road, Harrogate, HG3 1UG

Email: education.ecs.baltic@arrow.com
Phone: 0870 251 1000

AI+ Prompt Engineer Level 1™

CODE:	LENGTH:	PRICE:
AIC_AC-130	8 Hours	€100.00

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

Objectives

- 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.

Prerequisites

- 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 and 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%

Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
01 Jan 0001			English	Self Paced Training		€100.00

Additional Information

This training is also available as onsite training. Please contact us to find out more.