

# aractech

Global Learning for Operational Leaders



IT MANAGEMENT AND CYBER SECURITY | IMCS-002

## Certified Artificial Intelligence Practitioner (CAIP)

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# Course content

## Why Attend

The Artificial Intelligence Practitioner Training Course is designed to equip professionals with the knowledge and hands-on skills needed to harness the power of AI for solving complex business challenges.

As organizations strive for greater efficiency and agility, Artificial Intelligence emerges as a transformative force enabling smarter decision-making, automation, and innovation across various industries.

## Course Methodology

## Course Objectives

- Develop many AI skills necessary to get work completed in less time
- Understand how to plan using logic
- Explain how to imitate human neural network in classification
- Understand how to design a Machine Learning based applications
- Analysis and Design AI Application

## Target Audience

- This training course is suitable to a wide range of professionals but will greatly benefit:
- Project Managers
- Office Managers
- Leaders

# Course outline

## Detailed course outline

Day-by-day outline for Certified Artificial Intelligence Practitioner (CAIP).

### Day 1 - An Overview of Artificial Intelligence

- Introduction to AI and Success Stories
- Human Intelligence vs Artificial Intelligence
- History of AI
- Intelligent Agents and Their Roles
- Limits of Artificial Intelligence
- Intelligent Decision Making

### Day 2 - Intelligent Agents

- Introduction to Agents
- Different Types of Agents
- Knowledge-base and Data Base
- Logic Reasoning
- Unification
- Deduction Processes

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### Day 3 - Machine Learning

- Supervised and Unsupervised Learning
- Classification and Clustering
- Artificial Neural Networks
- Learn by Examples
- Object Recognition
- Features and Classes

### Day 4 - Fuzzy Logic

- Introduction to Fuzzy Thinking
- Fuzziness vs Probability
- Fuzzy set and Fuzzy Rules
- Importance of Fuzzy logic
- Real example of Fuzzy Controllers
- Building a Tiny Machine Learning Application

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### Day 5 - Genetic Algorithm

- Overview of Genetic Algorithms
- The Need for Optimization, Maximization, and Minimization
- How GA Work and Evolve
- Genetic Algorithm Chromosomes, Genes, Selection, Mutation and Crossover
- Dimension to Use Genetic Algorithm
- Real Genetic Algorithm Examples to Optimize Business Processes

# Seminar dates

## Available seminar dates

Live dates and pricing for Certified Artificial Intelligence Practitioner (CAIP) generated from the course details page.

Date	Location	Format	Fee
15 - 19 June 2026	Frankfurt	Classroom	€2,275
20 - 24 July 2026	Barcelona	Classroom	€2,695
3 - 7 August 2026	Frankfurt	Classroom	€2,275
7 - 11 September 2026	Rome	Classroom	€2,975
12 - 16 October 2026	Kuala Lumpur	Classroom	€1,575
9 - 13 November 2026	Barcelona	Classroom	€2,695
14 - 18 December 2026	London	Classroom	€2,940

**Live online option**

Online delivery is available at €1,250.