



*Training Course:
Certified Artificial Intelligence Practitioner
(CAIP)*

*2 - 6 August 2026
Amman (Jordan)*

Training Course: Certified Artificial Intelligence Practitioner (CAIP)

Training Course code: IT236580 From: 2 - 6 August 2026 Venue: Amman (Jordan) - Training Course Fees: 4550 € Euro

Introduction

Artificial Intelligence AI has become one of the most influential technologies transforming organizations, industries, and decision-making processes. Understanding AI concepts, capabilities, applications, and strategic implementation has become essential for professionals seeking to support innovation, improve operational efficiency, and contribute to digital transformation initiatives.

The Certified Artificial Intelligence Practitioner CAIP training program is designed by Global Horizon Training Center to provide participants with a comprehensive understanding of Artificial Intelligence principles, methodologies, technologies, and organizational applications. The program enables professionals to develop a strong foundation in AI concepts, understand different AI models and techniques, evaluate AI opportunities, and support responsible AI adoption within their organizations.

The program covers key AI areas including Artificial Intelligence fundamentals, Machine Learning concepts, Deep Learning principles, Natural Language Processing, Generative AI, AI strategy, governance, ethics, and future trends. It is designed to equip participants with the knowledge required to understand AI-driven transformation and its impact across various business functions.

Objectives

By the end of this training program, participants will be able to:

- Understand the fundamental concepts, principles, and evolution of Artificial Intelligence.
- Differentiate between Artificial Intelligence, Machine Learning, Deep Learning, and related technologies.
- Identify AI applications and opportunities across different industries and business functions.
- Understand the Machine Learning lifecycle and major AI methodologies.
- Gain knowledge of data requirements and their role in AI development.
- Understand the concepts of neural networks, Deep Learning, and Natural Language Processing.
- Explore the capabilities and applications of Generative AI technologies.
- Understand how AI can support business transformation and strategic decision-making.
- Recognize key challenges related to AI ethics, governance, privacy, and security.
- Develop awareness of emerging AI trends and future organizational implications.

Course Methodology

The training methodology is designed to provide participants with a comprehensive theoretical understanding of Artificial Intelligence through:

- Instructor-led presentations and structured discussions.
- Interactive knowledge-sharing sessions.
- Industry examples and AI case studies.
- Analysis of AI applications across different sectors.
- Group discussions on AI opportunities and challenges.
- Review of AI frameworks, models, and best practices.
- Question-and-answer sessions to enhance understanding.

Organizational Impact

Upon completion of this program, organizations will benefit from:

- Improved awareness of Artificial Intelligence capabilities and applications.
- Enhanced readiness for AI-driven digital transformation.
- Better identification of AI opportunities to improve organizational performance.
- Increased understanding of AI-related risks and governance requirements.
- Development of employees' knowledge to support AI adoption initiatives.
- Improved strategic decision-making through awareness of AI-driven solutions.
- Strengthened organizational capability to adapt to emerging technologies.

Target Audience

This program is suitable for:

- Managers and Executives.
- IT Professionals and Technology Specialists.
- Digital Transformation Teams.
- Data Analysts and Business Intelligence Professionals.
- Business Analysts.
- Project and Program Managers.
- Innovation and Strategy Professionals.
- Department Heads and Decision Makers.
- Professionals interested in understanding Artificial Intelligence and its organizational applications.

Outline

Day 1: Introduction to Artificial Intelligence and AI Foundations

Artificial Intelligence Fundamentals

- Definition and concepts of Artificial Intelligence.

- Evolution and history of AI development.
- Types and categories of Artificial Intelligence.
- Artificial Intelligence capabilities and limitations.
- Difference between AI, Machine Learning, and Deep Learning.

AI Applications and Business Value

- AI applications across different industries.
- AI transformation in business environments.
- Role of AI in improving efficiency and decision-making.
- Identifying organizational opportunities for AI adoption.

AI Ecosystem and Technologies

- Overview of AI technologies and platforms.
- Understanding AI models and frameworks.
- Current trends shaping Artificial Intelligence development.

Day 2: Machine Learning Concepts and Data Fundamentals

Introduction to Machine Learning

- Machine Learning principles and concepts.
- Types of Machine Learning:
 - Supervised Learning.
 - Unsupervised Learning.
 - Reinforcement Learning.

Machine Learning Lifecycle

- Problem identification.
- Data requirements.
- Model development concepts.
- Model evaluation and improvement.

Data and Artificial Intelligence

- Importance of data quality in AI.
- Structured and unstructured data.
- Data preparation concepts.
- Data management considerations for AI systems.

Machine Learning Algorithms Overview

- Regression concepts.
- Classification techniques.
- Clustering methods.
- Decision tree models.

- Ensemble learning concepts.

Day 3: Deep Learning, Natural Language Processing, and Generative AI

Deep Learning Fundamentals

- Introduction to neural networks.
- Deep Learning concepts and architectures.
- Applications of Deep Learning.
- Overview of computer vision technologies.

Natural Language Processing NLP

- Introduction to NLP concepts.
- Language-based AI applications.
- Text analysis and understanding.
- Chatbots and virtual assistants.

Generative Artificial Intelligence

- Understanding Generative AI.
- Large Language Models LLMs.
- AI-generated content and business applications.
- Overview of prompt engineering concepts.
- Opportunities and challenges of Generative AI.

Day 4: AI Strategy, Implementation, and Organizational Adoption

AI Strategy Development

- Understanding AI business opportunities.
- Aligning AI initiatives with organizational goals.
- Building an AI adoption strategy.
- Challenges of AI transformation.

AI Implementation Considerations

- AI solution planning concepts.
- Selecting suitable AI approaches.
- Managing AI adoption within organizations.
- Factors influencing successful AI implementation.

AI and Digital Transformation

- Role of AI in organizational transformation.
- AI-driven innovation.

- Automation and intelligent business processes.
- Future workforce requirements in an AI-enabled environment.

Day 5: AI Governance, Ethics, Security, and Future Trends

Responsible Artificial Intelligence

- Principles of responsible AI.
- AI ethics and transparency.
- Managing bias in AI systems.
- Human oversight in AI decision-making.

AI Governance and Risk Management

- Importance of AI governance frameworks.
- AI policies and organizational guidelines.
- Privacy and security considerations.
- Managing risks associated with AI adoption.

Future of Artificial Intelligence

- Emerging AI technologies.
- AI trends shaping industries.
- AI and the future of work.
- Preparing organizations for AI-driven environments.

Registration form on the Training Course: Certified Artificial Intelligence Practitioner (CAIP)

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