



*Training Course:
Certified AI Practitioner*

*12 - 16 October 2025
Doha (Qatar)*

Training Course: Certified AI Practitioner

Training Course code: SC236299 From: 12 - 16 October 2025 Venue: Doha (Qatar) - Training Course Fees: 4900 € Euro

Introduction

Artificial Intelligence AI is reshaping industries by enabling smarter decision-making, automating processes, and creating new business models. Organizations today require practitioners who not only understand AI concepts but can also **design, apply, and evaluate AI solutions responsibly**.

The Certified AI Practitioner CAIP program equips participants with the **foundational-to-intermediate technical knowledge, practical application skills, and ethical frameworks** necessary to implement AI solutions in real-world environments. By completing this program, participants will be prepared to operate as certified AI practitioners who can bridge the gap between AI technologies and organizational needs.

Objectives

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

- Understand core AI concepts, frameworks, and technologies.
- Design AI solutions using machine learning and deep learning methods.
- Apply AI techniques in domains such as NLP, computer vision, and predictive analytics.
- Evaluate and validate AI models for accuracy, reliability, and fairness.
- Integrate AI tools into business processes for efficiency and innovation.
- Address ethical, legal, and governance concerns in AI implementation.
- Prepare for certification as an AI Practitioner.

Target Audience

- Data analysts, engineers, and IT professionals expanding into AI.
- Business and technical managers seeking AI implementation skills.
- Professionals in finance, healthcare, manufacturing, or government exploring AI adoption.
- Anyone aiming to gain certification as an AI practitioner.

Methodology

- Interactive lectures with real-world case studies.
- Hands-on labs and exercises with AI tools Python, TensorFlow, PyTorch, cloud-based AI platforms.
- Group activities for solution design and problem-solving.
- Role-play and scenario-based ethical decision-making.
- Quizzes and mock certification-style assessments.

Outlines

Day 1

Foundations of Artificial Intelligence

- Overview of AI: history, concepts, and current applications.
- AI vs. Machine Learning vs. Deep Learning.
- Key AI domains: NLP, Computer Vision, Robotics, Predictive Analytics.
- AI project lifecycle.
- Introduction to AI tools and environments Python, Jupyter, TensorFlow, cloud AI services.
[Exercise](#): Build a simple predictive model with sample data.

Day 2

Machine Learning & Data for AI

- Supervised vs. unsupervised learning.
- Regression, classification, clustering techniques.
- Feature engineering and data preparation.
- Model training, testing, and evaluation metrics.
- Avoiding overfitting and bias in models.
[Hands-on lab](#): Create and test a classification model.

Day 3

Deep Learning and Advanced AI Applications

- Neural networks: structure and function.
- Deep learning architectures CNNs, RNNs, Transformers.

- Natural Language Processing NLP in practice.
- Computer vision applications.
- Case study: AI in healthcare/finance/manufacturing.
[Hands-on lab](#): Train a simple image classification model.

Day 4

AI Deployment, Governance & Ethics

- Deploying AI models into production APIs, cloud platforms.
- Monitoring and maintaining AI systems.
- Explainable AI XAI and transparency.
- AI governance frameworks.
- Ethics: bias, fairness, privacy, and responsible AI practices.
[Workshop](#): Ethical AI scenario role-play.

Day 5

AI Strategy, Trends & Certification Preparation

- Designing AI roadmaps for organizations.
- Future of AI: generative AI, autonomous systems, edge AI.
- Integrating AI with IoT, big data, and cloud.
- Certification exam preparation: practice questions and review.
- Final group project: Develop an AI solution proposal for a business case.
[Wrap-up & Certification Assessment](#)

Registration form on the Training Course: Certified AI Practitioner

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