

Course No. 1169

Artificial Intelligence Fundamentals Training Course

AI FUNDAMENTALS
ARTIFICIAL INTELLIGENCE & APPLICATIONS

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Artificial Intelligence Fundamentals Training Course is a comprehensive professional development program designed to provide executives, managers, professionals, specialists, and decision-makers with a solid understanding of Artificial Intelligence (AI), its core technologies, practical business applications, and strategic value. As organizations accelerate digital transformation and data-driven innovation, understanding the fundamentals of AI has become essential for improving operational efficiency, enhancing decision-making, driving innovation, and maintaining long-term competitiveness across both public and private sectors.

Artificial Intelligence is transforming the way governments, ministries, financial institutions, oil and gas organizations, healthcare providers, manufacturers, and multinational corporations operate. From intelligent automation and predictive analytics to customer service, fraud detection, cybersecurity, asset management, and strategic planning, AI is reshaping business processes and creating new opportunities for organizational growth. This course provides participants with a practical and business-oriented understanding of AI concepts without requiring an advanced technical background, enabling leaders and professionals to confidently participate in AI initiatives and digital transformation programs.

Throughout the program, participants will explore the foundations of Artificial Intelligence, Machine Learning, Deep Learning, Generative AI, Natural Language Processing (NLP), Computer Vision, intelligent automation, data-driven decision-making, and AI-enabled business transformation. The course also addresses AI governance, ethical considerations, responsible AI practices, data privacy, cybersecurity implications, regulatory compliance, risk management, and the organizational requirements for successful AI adoption. Real-world case studies and practical exercises demonstrate how AI technologies are being successfully implemented across multiple industries.

The Artificial Intelligence Fundamentals Training Course also illustrates how AI supports strategic planning, operational excellence, business innovation, enterprise risk management, customer experience enhancement, and organizational sustainability. By completing this course, participants will be equipped to identify AI opportunities, evaluate organizational readiness, collaborate effectively with technical teams, support AI-driven transformation initiatives, and contribute to the responsible adoption of Artificial Intelligence across government entities, ministries, public sector organizations, banks and financial institutions, oil and gas organizations, large corporations, and international enterprises.

Objectives

- Analyze the fundamental concepts and principles of Artificial Intelligence and their strategic business impact.
- Develop a comprehensive understanding of core AI technologies and their practical organizational applications.
- Evaluate opportunities for implementing Artificial Intelligence to improve business processes and operational efficiency.
- Apply structured approaches to identify suitable AI use cases across different business functions.
- Design preliminary AI implementation concepts aligned with organizational goals and digital transformation strategies.
- Improve decision-making by leveraging AI-driven analytics and intelligent business insights.
- Strengthen awareness of AI governance, ethics, regulatory requirements, and responsible AI practices.
- Implement best practices for evaluating AI readiness and supporting successful AI adoption initiatives.
- Assess organizational capabilities, risks, and opportunities associated with Artificial Intelligence implementation.
- Align Artificial Intelligence initiatives with innovation strategies, operational excellence, business sustainability, and long-term organizational objectives.

Who Should Attend

This course is designed for executives, senior managers, department heads, project managers, digital transformation leaders, innovation managers, IT managers, business analysts, data professionals, software developers, consultants, engineers, and professionals seeking a practical understanding of Artificial Intelligence and its business applications.

The program is equally valuable for strategic planning professionals, operations managers, quality managers, finance managers, human resources managers, customer experience leaders, compliance officers, internal auditors, risk management specialists, cybersecurity professionals, and organizational decision-makers responsible for innovation, digital transformation, technology strategy, and business performance improvement.

Professionals working within government entities, ministries, public sector organizations, banks and financial institutions, oil and gas organizations, healthcare providers, manufacturing industries, telecommunications companies, logistics organizations, educational institutions, utility providers, multinational corporations, and consulting firms will benefit significantly from the practical methodologies and internationally recognized best practices presented throughout the course.

Learning Outcomes

- By the end of this course, participants will be able to:
- Explain the core concepts, terminology, and components of Artificial Intelligence.
- Differentiate between Artificial Intelligence, Machine Learning, Deep Learning, and Generative AI.
- Identify practical AI use cases that deliver measurable business value.
- Evaluate opportunities for improving operational performance through AI-powered solutions.
- Understand the role of high-quality data in successful Artificial Intelligence initiatives.
- Apply the principles of responsible AI, ethical AI development, and AI governance.
- Assess organizational risks, challenges, and readiness for Artificial Intelligence adoption.
- Collaborate effectively with technical teams involved in AI implementation projects.
- Develop a high-level roadmap for introducing Artificial Intelligence within an organization.
- Support digital transformation, innovation, and strategic decision-making through Artificial Intelligence technologies.

Course Outline

DAY 01

Introduction to Artificial Intelligence

- Evolution and fundamentals of Artificial Intelligence
- Types of Artificial Intelligence and key concepts
- Differences between AI, Machine Learning, and Deep Learning
- AI ecosystem, technologies, and business value

DAY 01 — CONTINUED

PRACTICAL

Practical workshop on identifying AI opportunities within organizations

DAY 02

Core AI Technologies and Business Applications

- Machine Learning fundamentals
- Deep Learning and neural networks
- Generative AI and large language models
- Natural Language Processing (NLP), Computer Vision, and intelligent automation

PRACTICAL EXERCISE

Practical exercise on evaluating AI applications across business functions

DAY 03

Data, AI Governance, and Responsible AI

- Data fundamentals for Artificial Intelligence
- Data quality, preparation, and management
- AI governance frameworks and regulatory considerations
- AI ethics, responsible AI, privacy, cybersecurity, and risk management

WORKSHOP

Workshop on assessing organizational readiness for AI implementation

DAY 04

Implementing Artificial Intelligence Initiatives

- AI project lifecycle and implementation methodology
- Identifying high-value AI use cases
- Change management and AI-enabled digital transformation

DAY 04 — CONTINUED

- Measuring AI value, business impact, and return on investment

PRACTICAL

Practical workshop on designing an organizational AI initiative

DAY 05

Artificial Intelligence Strategy and Organizational Excellence

- The future of Artificial Intelligence across industries
- Enterprise AI strategy and innovation leadership
- Building an AI-ready organizational culture
- Global best practices for Artificial Intelligence adoption

FINAL WORKSHOP

Final workshop involving the development of a comprehensive Artificial Intelligence adoption roadmap integrating AI strategy, organizational readiness, governance, data management, responsible AI principles, risk management, business use cases, implementation planning, performance measurement, and continuous improvement to support digital transformation, operational excellence, sustainable innovation, and long-term organizational success.

Register or Request More Information

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