



London TDM

Oil and Gas Industry Training Courses

Course Venue: Malaysia - Kuala Lumpur

Course Date: From 23 November 2025 To 27 November 2025

Course Place: Royale Chullan Hotel

Course Fees: 6,000 USD

Course Brochure - OGI139/Kuala Lumpur/23 November 2025 By London TDM www.londontdm.com - info@londontdm.com

Introduction

The "Artificial Intelligence in Oil and Energy Operations" course is designed to provide professionals in the energy sector with a comprehensive understanding of how artificial intelligence (AI) is reshaping operations, logistics, and decision-making processes. The course will cover the application of AI technologies in exploration, production, and distribution, enabling participants to harness AI effectively for improved efficiency and innovation.

Objectives

- Understand the fundamentals of AI and its relevance to the oil and energy sector.
- Explore AI applications in exploration, production, and distribution operations.
- · Evaluate the impact of AI on operational efficiency and decision-making.
- Analyze case studies where AI has transformed business practices in energy operations.
- Develop a roadmap for implementing AI projects in your organization.

Course Outlines

Day 1: Introduction to AI and Machine Learning

- Overview of AI, machine learning, and deep learning.
- Al in the context of the oil and energy industry.
- Key algorithms and methods applicable to energy operations.
- Data management and pre-processing for Al projects.
- · Ethics and considerations in AI deployment.

Day 2: AI in Exploration and Production

- Al applications in geological data analysis and exploration.
- Predictive maintenance and asset management using AI.
- · Optimizing drilling operations with machine learning.
- · Real-time monitoring and anomaly detection.
- Case study: Successful Al-driven exploration projects.

Day 3: Al in Distribution and Grid Management

- Role of AI in optimizing distribution networks.
- Smart grid technologies and AI applications.
- · Demand forecasting and load management.
- · Energy storage management with AI techniques.
- · Case study: Al-enhanced grid reliability and efficiency.

Day 4: Enhancing Operational Efficiency with Al

- Al-driven decision-making processes.
- Using AI for cost reduction and operational efficiency.
- Supply chain optimization with artificial intelligence.
- Integration of AI with existing technologies and systems.
- Case study: Al strategies for operational excellence.

Course Brochure - OGI139/Kuala Lumpur/23 November 2025 By London TDM www.londontdm.com - info@londontdm.com

Day 5: Implementing AI Projects in Your Organization

- Building an Al-ready culture and workforce.
- Project management and lifecycle of AI initiatives.
- Overcoming challenges and barriers to AI adoption.
- Creating a strategic roadmap for AI implementation.
- Workshop: Plan and pitch an AI project for your organization.