

DIGITAL OILFIELDS: USING AI TO ENHANCE EFFICIENCY

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| Start Date: | 16/02/2026 | End Date: | 20/02/2026 |
| Categories: | Artificial Intelligence & Er | Venues: | Dubai |
| Formats: | In Person | Instructors: | |

OVERVIEW

This course explores how AI technologies are transforming digital oilfield operations. It emphasizes data integration, production optimization, remote monitoring, and decision automation.

OBJECTIVES

- Understand the concept of digital oilfields and smart operations.
- Use AI to optimize production and reduce non-productive time.
- Integrate real-time data across drilling, completions, and production.
- Apply intelligent decision systems to upstream operations.
- Improve collaboration and performance through digital dashboards.

COURSE OUTLINE

- Digital Oilfield Architecture and Components
- AI for Production and Operations Optimization
- Real-Time Monitoring and Decision Support
- Data Lakes, SCADA, and IoT Integration
- Case Studies in Digital Oilfield Deployment

TARGET AUDIENCE

Production engineers, IT/digitalization leads, operations managers, and field automation professionals.

METHODOLOGY

Platform demos, architecture diagrams, collaborative exercises, and digital workflow design.

CONCLUSION

Participants will be able to lead or contribute to digital oilfield initiatives with AI-based enhancements.

DAILY AGENDA

Day 1: Digital Oilfield Concepts

Overview of smart fields, integration needs, and value chain.

Day 2: Data & Connectivity

SCADA, sensors, IoT, and cloud integration.

Day 3: Optimization Systems

AI-driven production and operations optimization.

Day 4: Decision Support Tools

Dashboards, alerts, and collaboration platforms.

Day 5: Strategy & Roadmaps

Rollout strategies and change management.

For more information, please contact us:

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