MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

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DIGITAL DRILLING IN THE OIL & GAS INDUSTRY FOR MANAGERS

"Accelerate drilling performance through digital solutions, real-time insights, and smarter decision-making."

Schedule

Venue	Fees
In-House	ASK FOR THE QUOTATION

► **Available delivery methods:** In-House Training

Introduction

As the oil & gas industry moves toward efficiency, safety, and sustainability, digital drilling technologies are transforming how wells are planned, drilled, and optimized. This course equips managers with a strategic understanding of digital drilling systems, including real-time data monitoring, predictive analytics, rig automation, digital twins, and AI-driven drilling optimization. Participants will gain the knowledge and tools to evaluate digital solutions, lead innovation, and align drilling strategies with performance targets.

Objectives

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

- Understand the fundamentals of digital drilling technologies
- Interpret real-time drilling data and key performance indicators (KPIs)
- Evaluate the impact of digital technologies on well planning and execution
- Align digital drilling tools with operational and safety objectives
- Apply automation and analytics to optimize well delivery
- Integrate digital workflows into drilling operations management

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Why Attend

With increased pressure to reduce non-productive time (NPT), improve wellbore placement, and enhance HSE outcomes, digital drilling presents a powerful opportunity to reimagine traditional approaches.

Target Audience

- Drilling & Well Operations Managers
- Rig Supervisors and Superintendents
- Drilling Engineers and Technical Specialists
- Digital Transformation Leaders
- Asset Managers and Field Development Teams
- HSE and Operations Support Managers

Individual Benefits

- Gain fluency in digital drilling platforms and systems
- Enhance collaboration between operations and digital teams
- Understand vendor solutions and evaluate return on investment
- Improve real-time decision-making during drilling operations

Organizational Benefits

- Reduce operational risks and drilling costs
- Enable faster and smarter drilling campaigns
- Integrate digital workflows across planning and execution
- Support the digital transformation of upstream operations

Instructional Methodology

- Technical lectures with case studies from offshore/onshore operations
- Live data interpretation and simulation sessions
- Group exercises for digital decision-making
- Industry tool demos (digital twins, predictive analytics, drilling simulators)
- Strategy mapping workshops tailored to participant organizations

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Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

Training Hours: 7:30 AM – 3:30 PM

Daily Format: 3–4 Learning Modules | Coffee Breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Foundations of Digital Drilling

Module 1: Evolution of Drilling – From Manual to Digital (07:30 – 09:30)

Module 2: Core Concepts in Digital Drilling Systems (09:45 – 11:15)

Module 3: Real-Time Operations Centers & Data Integration (11:30 – 01:00)

Module 4: Case Review – Digitizing a Drilling Campaign (02:00 – 03:30)

Day 2: Digital Technologies in Drilling

Module 1: Drilling Automation & Control Systems (07:30 – 09:30)

Module 2: Downhole Data, Sensors & MWD/LWD (09:45 – 11:15)

Module 3: Predictive Analytics and Machine Learning Applications (11:30 – 01:00)

Module 4: Workshop: Mapping Digital Tools to Drilling Phases (02:00 – 03:30)

Day 3: Operational Optimization Using Digital Tools

Module 1: Well Planning with Digital Twins and Simulators (07:30 – 09:30)

Module 2: Drilling Performance KPIs and Dashboards (09:45 – 11:15)

Module 3: Early Kick Detection, Stuck Pipe, and Anomaly Prediction (11:30 – 01:00)

Module 4: Simulation: Real-Time Drilling Optimization Scenario (02:00 – 03:30)

Day 4: Strategic Decision-Making & Risk Management

Module 1: Data-Driven Risk Mitigation Strategies (07:30 – 09:30)

Module 2: Vendor Technologies and Platform Comparison (09:45 – 11:15)

Module 3: Integrating HSE and Digital Safety Monitoring (11:30 – 01:00)

Module 4: Group Exercise: Building a Digital Drilling Strategy (02:00 – 03:30)

Day 5: Implementation Planning and ROI

Module 1: Barriers to Digital Adoption in Drilling (07:30 – 09:30)

Module 2: Building the Business Case for Digital Drilling (09:45 – 11:15)

Module 3: Roadmap Development – Technology, People, Process (11:30 – 01:00)

Module 4: Final Presentations – Team Strategy Reports & Feedback (02:00 – 03:30)

Certification

Participants will receive a **Certificate of Completion: Digital Drilling in the Oil & Gas Industry for Managers**, demonstrating their ability to lead digital drilling initiatives with strategic insight and operational readiness.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

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