MAWA EVENTS

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

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FUNDAMENTALS OF OIL AND GAS INDUSTRY – OIL AND GAS ESSENTIALS

"An End-to-End Overview of the Global Oil & Gas Value Chain"

Schedule

Date	Venue	Fees (Face-to-Face)
19 – 23 Oct 2026	London, UK	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

The oil and gas industry remains one of the most complex, capital-intensive, and globally impactful sectors in the world. Understanding its full value chain—from exploration to refining and marketing—is essential for professionals working in or with the industry. Whether new to the sector or looking to reinforce your foundational knowledge, this course provides a comprehensive overview of upstream, midstream, and downstream operations.

Through clear explanations, case studies, and real-world examples, participants will explore technical concepts, business drivers, regulatory issues, and the evolving energy landscape. The course helps bridge technical and non-technical perspectives to promote cross-functional collaboration and decision-making.

Objectives

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

- Understand the structure and value chain of the oil and gas industry
- Identify key processes in exploration, production, refining, and distribution
- Recognize commercial, operational, and regulatory drivers of the industry
- Explain the role of HSE, sustainability, and geopolitical influences
- Engage confidently with technical and business discussions across oil and gas sectors

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Why Attend

- Gain a structured, complete understanding of how the oil and gas industry works
- Build cross-disciplinary knowledge of both technical processes and commercial terms
- Enhance your ability to communicate with engineers, managers, and stakeholders
- Understand industry trends, including the energy transition and digitalization
- Strengthen your contributions to projects, investments, or operations

Target Audience

This program is designed for:

- New entrants to the oil and gas industry
- Business analysts, finance, legal, and support staff working with oil & gas clients
- Technical and non-technical professionals seeking a complete industry overview
- Energy policymakers, consultants, and project managers
- Anyone involved in oil and gas-related decisions, reporting, or strategy

Individual Benefits

Key competencies that will be developed include:

- Oil and gas sector knowledge from upstream to downstream
- Basic petroleum geology, drilling, refining, and distribution concepts
- Understanding of contracts, pricing, and fiscal regimes
- Familiarity with industry risks, terminology, and global market dynamics
- Cross-functional communication and stakeholder engagement

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved collaboration between technical and commercial teams
- More effective participation in projects, audits, tenders, and contracts
- Stronger understanding of business drivers and technical dependencies
- Enhanced decision-making and performance across energy-related roles
- Alignment with global oil market trends and ESG considerations

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Core concepts and market structure of the oil & gas industry
- Case Studies – Real-world scenarios across upstream, midstream, and downstream
- Workshops – Simulations, group exercises, and mapping activities
- Peer Exchange – Discussions with participants from different sectors and regions
- Tools – Glossaries, flow diagrams, value chain maps, and pricing models

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Course Outline

Detailed 5-Day Course Outline

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: Industry Structure and Global Energy Context

- Module 1: Overview of the Oil & Gas Value Chain (07:30 – 09:30) • Upstream, midstream, downstream processes • Global market structure and major players
- Module 2: Energy Economics and Price Drivers (09:45 – 11:15) • Crude oil benchmarks, gas pricing, supply/demand fundamentals • OPEC+, energy policy, and geopolitical influence
- Module 3: Industry Challenges and Trends (11:30 – 01:00) • Energy transition, ESG, digitalization, and volatility
- Module 4: Workshop – Mapping the Value Chain (02:00 – 03:30) • Group exercise to analyze how value is created

Day 2: Upstream – Exploration & Production

- Module 1: Exploration & Petroleum Geology (07:30 – 09:30) • Hydrocarbon formation, seismic data, reserves and resources
- Module 2: Drilling Operations and Rig Types (09:45 – 11:15) • Onshore vs. offshore drilling, well design basics
- Module 3: Production and Artificial Lift (11:30 – 01:00) • Production techniques, reservoir behavior, surface facilities
- Module 4: Workshop – Field Development Plan (02:00 – 03:30) • Participants outline an exploration-to-production plan

Day 3: Midstream – Transport, Storage & Trading

- Module 1: Pipelines and LNG Infrastructure (07:30 – 09:30) • Pipeline operations, LNG terminals, marine transport
- Module 2: Storage and Inventory Management (09:45 – 11:15) • Tank farms, strategic reserves, and inventory costs
- Module 3: Oil & Gas Trading and Contracts (11:30 – 01:00) • Spot markets, long-term contracts, INCOTERMS
- Module 4: Workshop – Trading Simulation (02:00 – 03:30) • Mock negotiation of a sales and purchase agreement (SPA)

Day 4: Downstream – Refining, Marketing & Petrochemicals

- Module 1: Refining Processes and Outputs (07:30 – 09:30) • Crude distillation, cracking, reforming, product blending
- Module 2: Retail and Commercial Fuel Distribution (09:45 – 11:15) • Wholesale vs. retail, pricing strategies, brand management
- Module 3: Petrochemicals and Value-Added Products (11:30 – 01:00) • Ethylene, plastics, fertilizers, specialty chemicals
- Module 4: Workshop – Refinery Economics Case (02:00 – 03:30) • Review of refinery margin scenarios and feedstock options

Day 5: Risk, Regulation, and the Future of Oil & Gas

- Module 1: HSE and Regulatory Compliance (07:30 – 09:30) • Safety systems, spill prevention, environmental management
- Module 2: Fiscal Regimes and Licensing (09:45 – 11:15) • PSAs, royalties, concession terms, government take
- Module 3: Energy Transition & Strategic Scenarios (11:30 – 01:00) • CCUS, renewables integration, hydrogen, global decarbonization
- Module 4: Wrap-Up and Certification (02:00 – 03:30) • Final reflections, action planning, and certificate distribution

Certification

Participants will receive a Certificate of Completion in Fundamentals of the Oil and Gas Industry, validating their understanding of the full energy value chain, industry dynamics, and technical foundations of oil and gas operations.

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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