

Enhancing Environmental Sustainability & Natural Risk Management in the Oil & Gas Sector

Course Title	Enhancing Environmental Sustainability & Natural Risk Management in the Oil & Gas Sector
Country	London, Egypt, Malaysia
Location	4/5 Star Hotel
Time	08:00 AM - 02:00 PM
Date	22-26 March 2026

Target Audience:

- Oil & Gas Engineers
- HSE Engineers & Officers
- Project & Construction Engineers
- Site Supervisors and Operations Personnel

Day 1: Environmental Sustainability in the Oil & Gas Industry

- Principles of environmental sustainability in Oil & Gas operations
- Environmental impacts of upstream, midstream, and downstream activities
- Environmental regulations and compliance requirements
- ESG concepts and sustainability strategies in petroleum companies
- Case studies from international oil & gas projects

Day 2: Natural Hazards Affecting Oil & Gas Facilities

- Overview of natural hazards in oil & gas environments
- Seismic activity, flooding, extreme weather, and sandstorms
- Risk assessment of oil & gas sites exposed to natural hazards
- Site selection and planning considering natural risks
- Mitigation and prevention strategies

Day 3: Geo-Environmental Risks in Oil & Gas Operations

- Soil and groundwater contamination in petroleum facilities
- Oil spills and their environmental consequences
- Management of hazardous materials and petroleum waste
- Environmental Impact Assessment (EIA) for oil & gas projects
- Environmental monitoring and control programs

Day 4: Geotechnical Challenges in Petroleum Projects

- Soil and rock properties relevant to oil & gas infrastructure
- Ground settlement and soil stability issues
- Foundation design for oil & gas facilities
- Geotechnical risks in pipelines, storage tanks, and plants
- Engineering solutions to reduce geotechnical risks

Day 5: Integrated Risk Management & HSE Systems

- Risk management frameworks in the oil & gas sector
- Integration of environmental and geotechnical risks with HSE systems
- Emergency response and environmental incident management
- Lessons learned from major oil & gas accidents
- Practical workshop and comprehensive case study

Program Outcomes

- Enhanced understanding of sustainability in oil & gas operations
- Ability to identify and assess natural and geo-environmental risks
- Improved risk management and compliance performance
- Practical application of HSE and environmental best practices