



*Training Course:
Advanced Oil and Gas Project Economics, Risk
and Decision Analysis*

16 - 20 August 2026

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Advanced Oil and Gas Project Economics, Risk and Decision Analysis

Training Course code: EN234854 From: 16 - 20 August 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4410 € Euro

Introduction

Oil and gas projects involve high capital investments, long lifecycles, and significant uncertainty, making robust economic evaluation and structured decision-making essential. Effective integration of project economics, risk assessment, and decision analysis enables organizations to optimize investments and maximize value.

This program, designed by Global Horizon Training Center, equips participants with advanced tools and methodologies to evaluate project economics, quantify risks, and support strategic decision-making in oil and gas projects.

Course Objectives

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

- Apply advanced economic evaluation techniques in oil and gas projects
- Develop and interpret financial models and cash flow analyses
- Assess project profitability using NPV, IRR, and other metrics
- Identify and quantify risks and uncertainties
- Conduct sensitivity and scenario analysis
- Apply probabilistic and decision analysis techniques
- Evaluate investment options and portfolio strategies
- Support strategic and operational decision-making

Target Audience

This program is designed for:

- Project and Petroleum Engineers
- Finance and Investment Analysts in Oil & Gas
- Strategic Planning and Business Development Professionals
- Asset and Field Managers
- Risk Management Specialists
- Decision-Makers involved in capital projects

Outline

Day 1: Fundamentals of Project Economics in Oil & Gas

- Overview of oil and gas project lifecycle economics
- Cost structures CAPEX, OPEX, lifecycle costs
- Revenue models and pricing assumptions
- Time value of money and discounting principles
- Key economic indicators NPV, IRR, Payback Period

Day 2: Financial Modeling and Cash Flow Analysis

- Building financial models for oil and gas projects
- Cash flow forecasting and analysis
- Production profiles and revenue estimation
- Cost estimation and allocation
- Model validation and assumptions testing

Day 3: Risk Analysis and Uncertainty Modeling

- Types of risks in oil and gas projects
- Probability distributions and uncertainty inputs
- Sensitivity and scenario analysis
- Monte Carlo simulation concepts
- Risk interpretation and reporting

Day 4: Decision Analysis and Investment Optimization

- Decision trees and expected value analysis
- Portfolio optimization and project selection
- Real options analysis in oil and gas
- Risk vs. return trade-offs
- Strategic decision-making frameworks

Day 5: Integration, Evaluation, and Case Studies

- Integrating economics, risk, and decision analysis
- Project evaluation and investment appraisal
- Performance metrics and benchmarking
- Reporting and presenting results
- Case studies and real-world applications

Registration form on the Training Course: Advanced Oil and Gas Project Economics, Risk and Decision Analysis

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