



*Training Course:
Advanced OIL & Gas Project Economics, Risk &
Decision Analysis*

*19 - 23 October 2026
Singapore*

Training Course: Advanced OIL & Gas Project Economics, Risk & Decision Analysis

Training Course code: EN235153 From: 19 - 23 October 2026 Venue: Singapore - Training Course Fees: 7500 € Euro

Introduction

In the oil and gas industry, capital-intensive projects are exposed to significant uncertainty, requiring robust economic evaluation and structured decision-making. Effective analysis of costs, revenues, risks, and uncertainties is essential to ensure optimal investment decisions and long-term value creation.

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

Course Objectives

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

- Understand advanced economic evaluation techniques for oil and gas projects
- Build and interpret financial models for project assessment
- Analyze cash flows, profitability, and investment performance
- Apply risk analysis and uncertainty modeling techniques
- Conduct sensitivity and scenario analysis
- Utilize decision analysis tools for strategic planning
- Evaluate project feasibility and investment options
- Support decision-making with quantitative and analytical insights

Target Audience

This program is designed for:

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

Outline

Day 1: Fundamentals of Oil & Gas Project Economics

- Overview of oil and gas project lifecycle economics
- Cost structures: CAPEX, OPEX, and lifecycle costs
- Revenue models and pricing mechanisms
- Time value of money and discounting concepts
- 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 analysis and scenario planning
- Monte Carlo simulation concepts
- Risk quantification and interpretation

Day 4: Decision Analysis and Optimization

- Decision trees and expected value analysis
- Portfolio optimization and investment selection
- Real options analysis in oil and gas
- Trade-off analysis between risk and return
- 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 economic results
- Case studies and real-world applications

Registration form on the Training Course: Advanced OIL & Gas Project Economics, Risk & Decision Analysis

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3 Oudai street, Aldouki,
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