

Petroleum Project Economics and Risk Analysis Course

Venue Information

Venue: London UK

Place:

Start Date: 2026-03-03

End Date: 2026-03-07

Course Details

Net Fee: £4750.00

Duration: 1 Week

Category ID: OAGTC

Course Code: OAGTC-14

Syllabus

Course Syllabus

Objectives

- Understand various economic terms used in the oil & gas industry.
- Understand how to develop economic models of various petroleum fiscal regimes.
- Carry out cash flow analysis, different economic analyses for petroleum related project and determine economic indicators.
- Evaluate and quantify risks and uncertainties.
- Make the right investment decision in the presence of risk.
- Carry out a comprehensive economic evaluation study for any petroleum related project including risk analysis and sensitivity study using spreadsheet.
- Contribute to the petroleum project investment within a solid economic system and do a detailed economic evaluation.
- Contribute to the decision making process for any petroleum related project.

- Setting up Cash Flow Calculation
- Depreciation Methods
- Loss Carry Forwards
- Inflation
- Nominal & Real Cash Flow
- Sunk Costs
- Project Financing

Economic Indicators

- Economic Indicators Definitions
- Present Value Concept
- Discount Factor
- Net Present Value
- Internal Rate of Return
- Effect of Project Delay
- Payback Period
- Profit/Investment Ratio
- Incremental Projects

Risks and Uncertainties

- Risk & Uncertainty
- Expected Value Concept
- Decision Tree Analysis
- Farm-out Decision
- Probability Analysis
- Sensitivity Analysis
- Probability Distribution
- Monte Carlo Simulation

Setting up Spreadsheet Calculation

- Introduction to Spreadsheet Calculation
- Simple Cash Flow Using Excel
- NPV calculations
- Application of economic indicators

Setting up Oil Field Development Model

- Group activities
- Setting up an Integrated Economic Model of a Typical Oil Field Development
- Project Sensitivity Analysis for the selected model
- Introduction to Russell field model
- Final remarks