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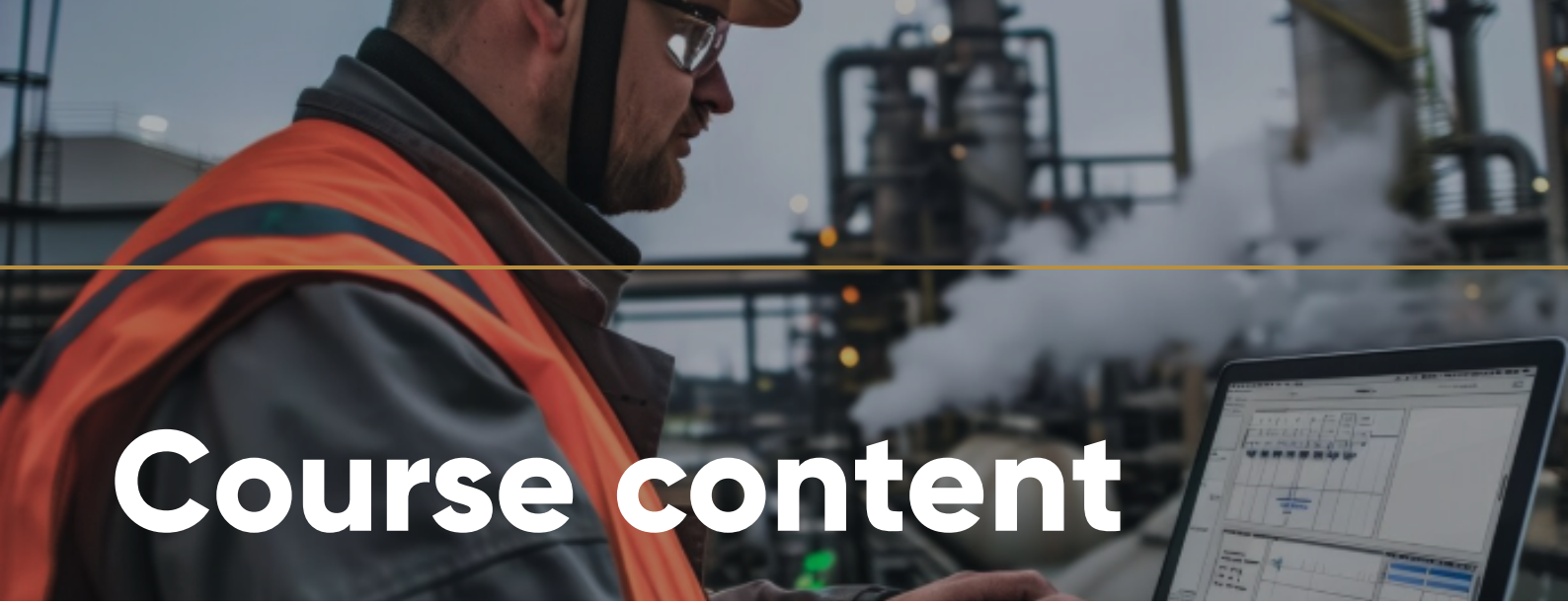



OIL AND GAS | OG-005

# Petroleum Project Economics and Risk Analysis

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# Course content

## Why Attend

Petroleum projects require massive capital investment, long development cycles, and are highly exposed to market volatility, technical uncertainty, and geopolitical risks. Effective economic evaluation and risk analysis are essential for making sound investment decisions in the oil and gas industry. This course equips participants with the tools to evaluate project feasibility, assess financial returns, and manage risk across the project lifecycle. It is designed to help professionals improve investment decision-making, optimize capital allocation, and enhance project profitability.

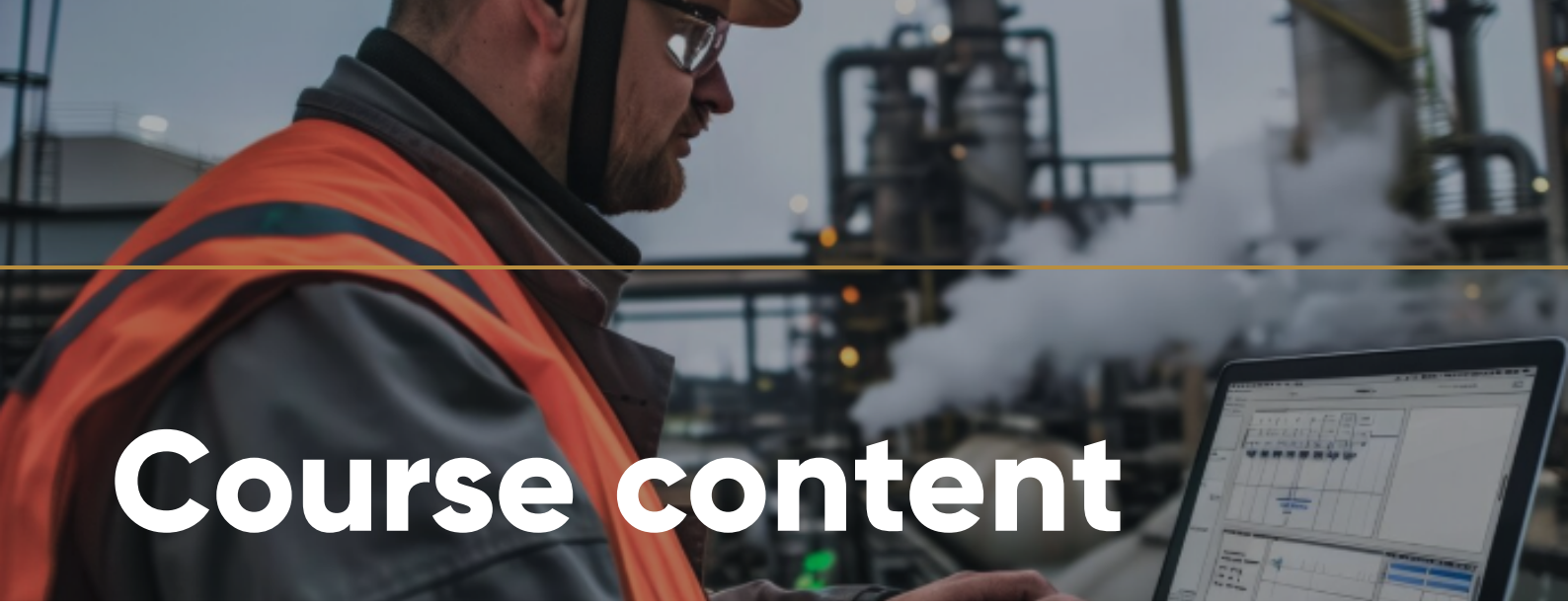
## Course Methodology

This course combines petroleum economics theory with practical, industry-based case studies. Participants will work through real project valuation scenarios, risk modeling exercises, and investment decision simulations. Workshops will focus on cash flow modeling, sensitivity analysis, and risk assessment techniques. Interactive discussions and group exercises will reinforce understanding of upstream project economics and uncertainty management.

## Course Objectives

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

- Understand fundamentals of petroleum project economics
- Evaluate upstream oil and gas project feasibility
- Apply investment appraisal techniques such as NPV, IRR, and payback period
- Analyze cost structures and cash flow models in petroleum projects
- Identify and assess technical, financial, and market risks
- Perform sensitivity and scenario analysis
- Optimize investment decisions under uncertainty
- Support strategic capital allocation decisions



# Course content

## Target Audience

- Petroleum Engineers and Project Engineers
- Finance and Investment Analysts in Oil & Gas
- Project Managers and Cost Engineers
- Reservoir and Production Engineers
- Business Development and Strategy Professionals
- Consultants and Energy Sector Professionals

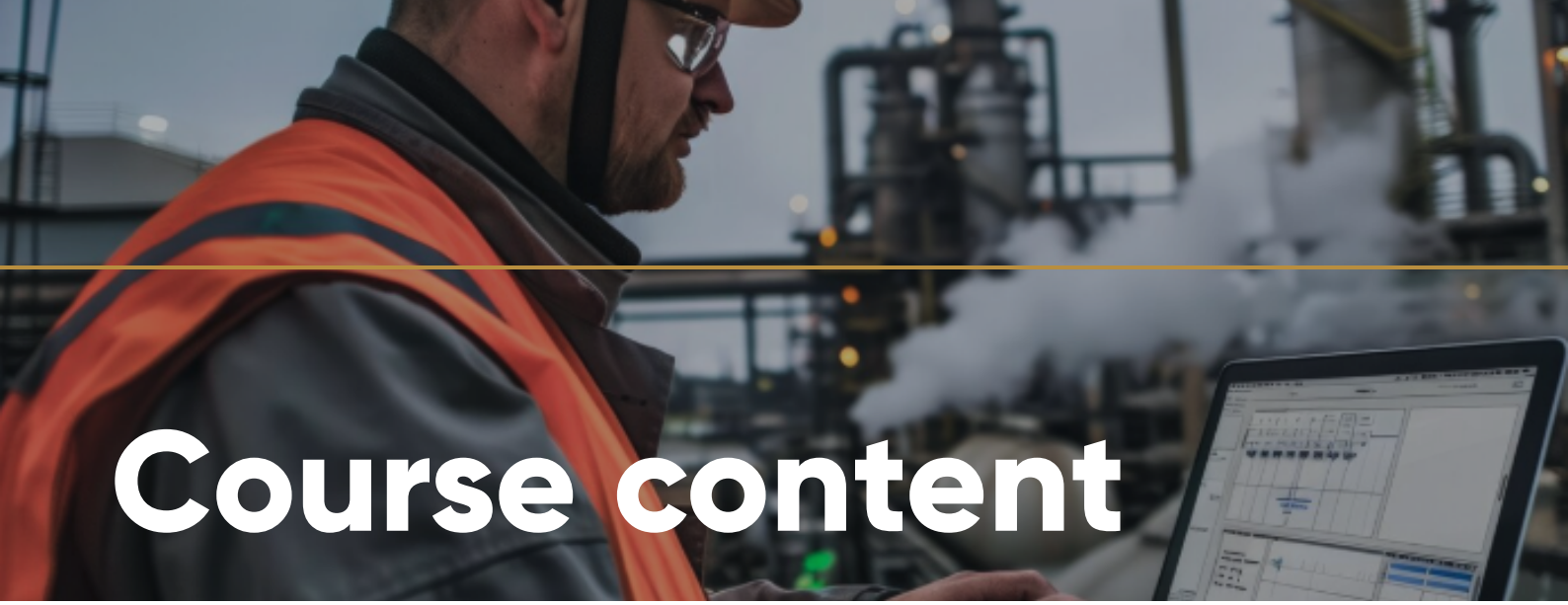
## Target Competencies

- Petroleum economic evaluation and modeling
- Investment appraisal and capital budgeting
- Risk identification and mitigation
- Cash flow and financial forecasting
- Sensitivity and scenario analysis
- Decision-making under uncertainty
- Strategic investment planning

## Course outline

### Day 1: Fundamentals of Petroleum Economics

- Overview of petroleum project lifecycle
- Structure of upstream oil and gas economics
- Cost classification (CAPEX and OPEX)
- Revenue streams in petroleum projects
- Time value of money in energy investments



# Course content

## Course outline

### Day 2: Investment Appraisal Techniques

- Net Present Value (NPV) analysis
- Internal Rate of Return (IRR)
- Payback period and profitability index
- Cash flow modeling fundamentals
- Decision criteria for project selection

### Day 3: Cost Estimation and Financial Modeling

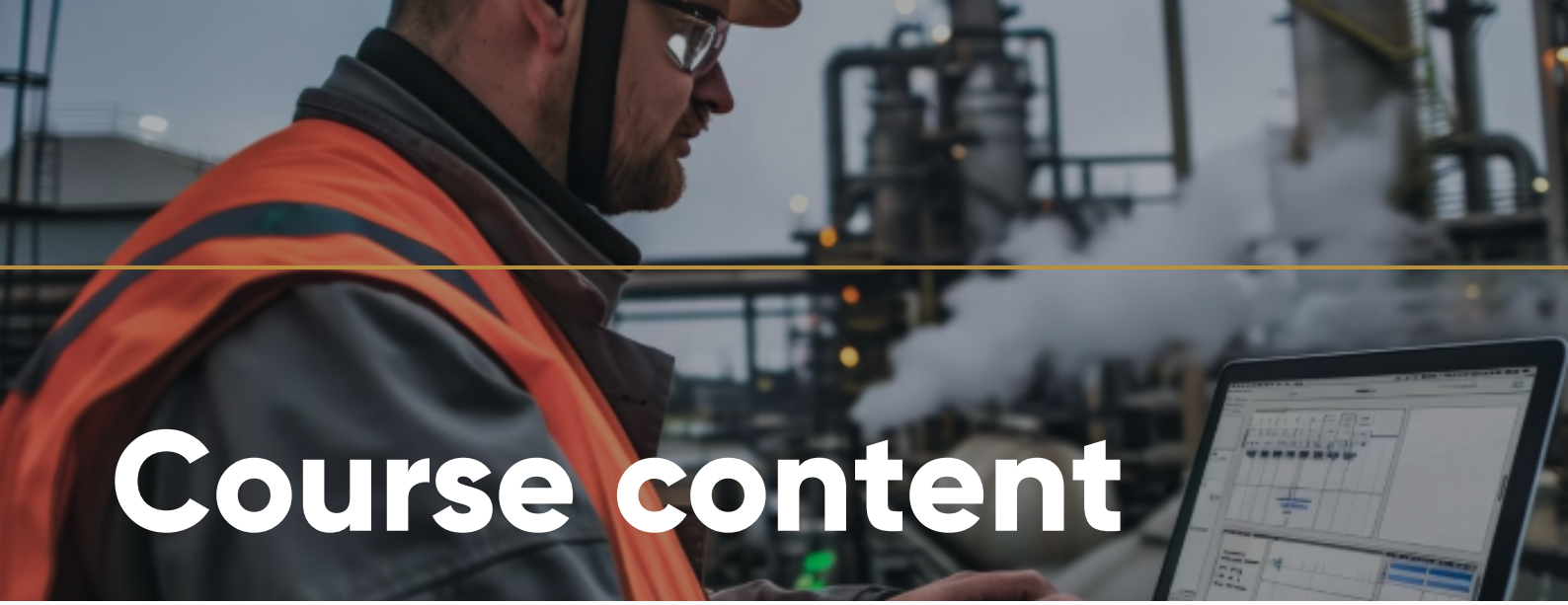
- Capital cost estimation methods
- Operating cost analysis
- Building petroleum project cash flow models
- Production profiles and decline curves
- Economic life of oil and gas assets

### Day 4: Risk and Uncertainty Analysis

- Types of risks in petroleum projects
- Technical, operational, and market risks
- Sensitivity analysis techniques
- Scenario planning and decision trees
- Monte Carlo simulation overview

### Day 5: Strategic Decision-Making and Case Studies

- Portfolio management in petroleum investments
- Risk-adjusted decision-making
- Break-even analysis and price volatility impact



# Course content

## Course outline

- Case studies of real oil and gas projects
- Final project: full economic and risk evaluation exercise



# Seminar dates

## Available seminar dates

Live dates and pricing for Petroleum Project Economics and Risk Analysis generated from the course details page.

| Date | Location | Format | Fee |
|---|---|---|---|
| 16 - 20 November 2026 | London - U.K | Classroom | **€3,400.-** |
| 7 - 11 December 2026 | Barcelona - Spain | Classroom | **€3,080.-** |
| 21 - 25 December 2026 | Istanbul - Turkey | Classroom | **€2,280.-** |
| 18 - 22 January 2027 | Amsterdam - Netherlands | Classroom | **€3,400.-** |
| 15 - 19 February 2027 | Paris - France | Classroom | **€3,600.-** |
| 15 - 19 March 2027 | Barcelona - Spain | Classroom | **€3,080.-** |
| 19 - 23 April 2027 | London - U.K | Classroom | **€3,360.-** |
| 17 - 21 May 2027 | Munich - Germany | Classroom | **€3,400.-** |
| 21 - 25 June 2027 | Amsterdam - Netherlands | Classroom | **€3,400.-** |
| 19 - 23 July 2027 | Istanbul - Turkey | Classroom | **€2,280.-** |
| 16 - 20 August 2027 | London - U.K | Classroom | **€3,360.-** |
| 20 - 24 September 2027 | Barcelona - Spain | Classroom | **€3,080.-** |
| 18 - 22 October 2027 | Istanbul - Turkey | Classroom | **€2,280.-** |
| 15 - 19 November 2027 | Amsterdam - Netherlands | Classroom | **€3,400.-** |
| 20 - 24 December 2027 | Paris - France | Classroom | **€3,600.-** |

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|---|---|
| **Live online option** | Online delivery is available at €1,850.-. |