OIL AND GAS | OG-005

Petroleum Project Economics and Risk Analysis

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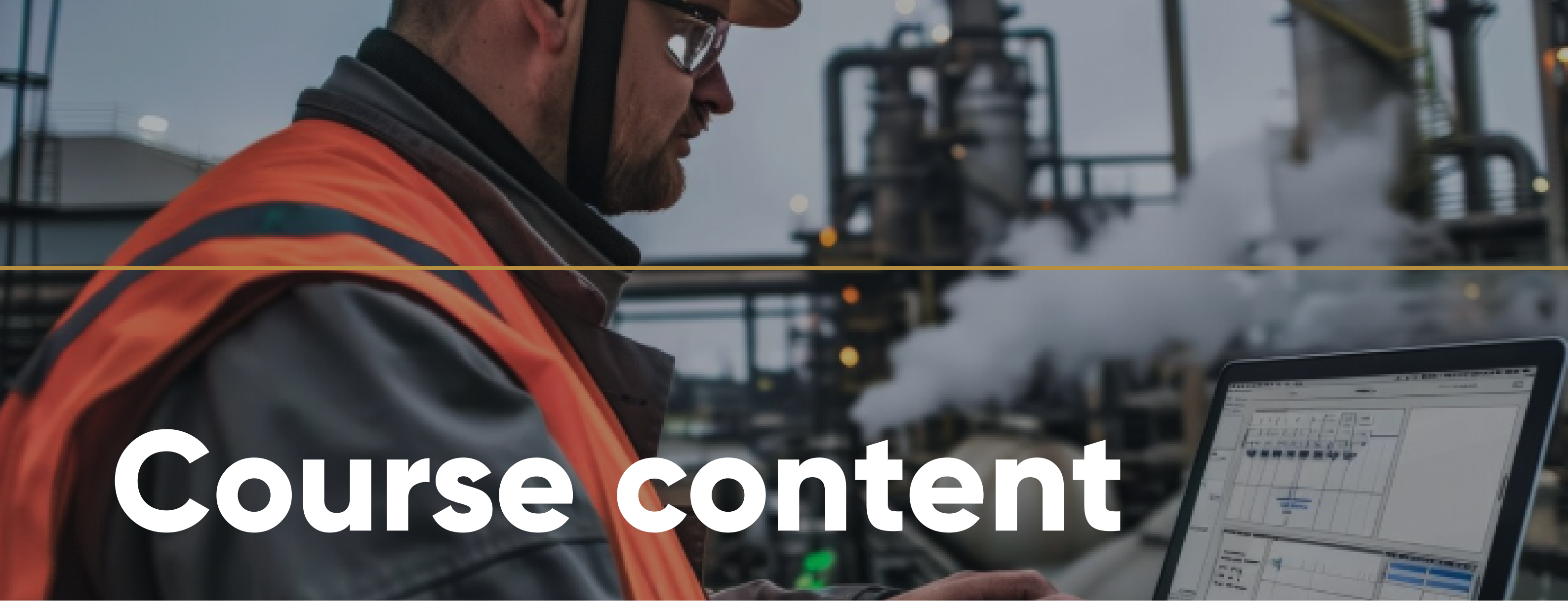


Course content

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.

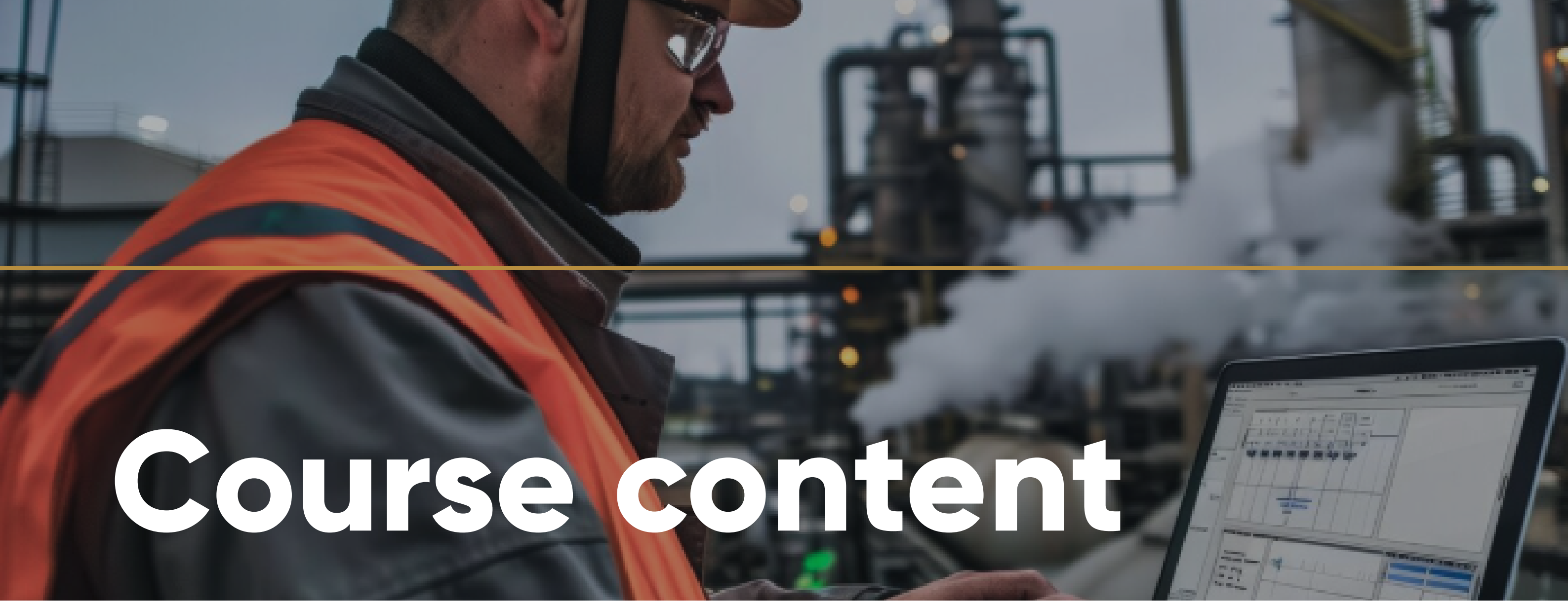
Course Methodology

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



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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

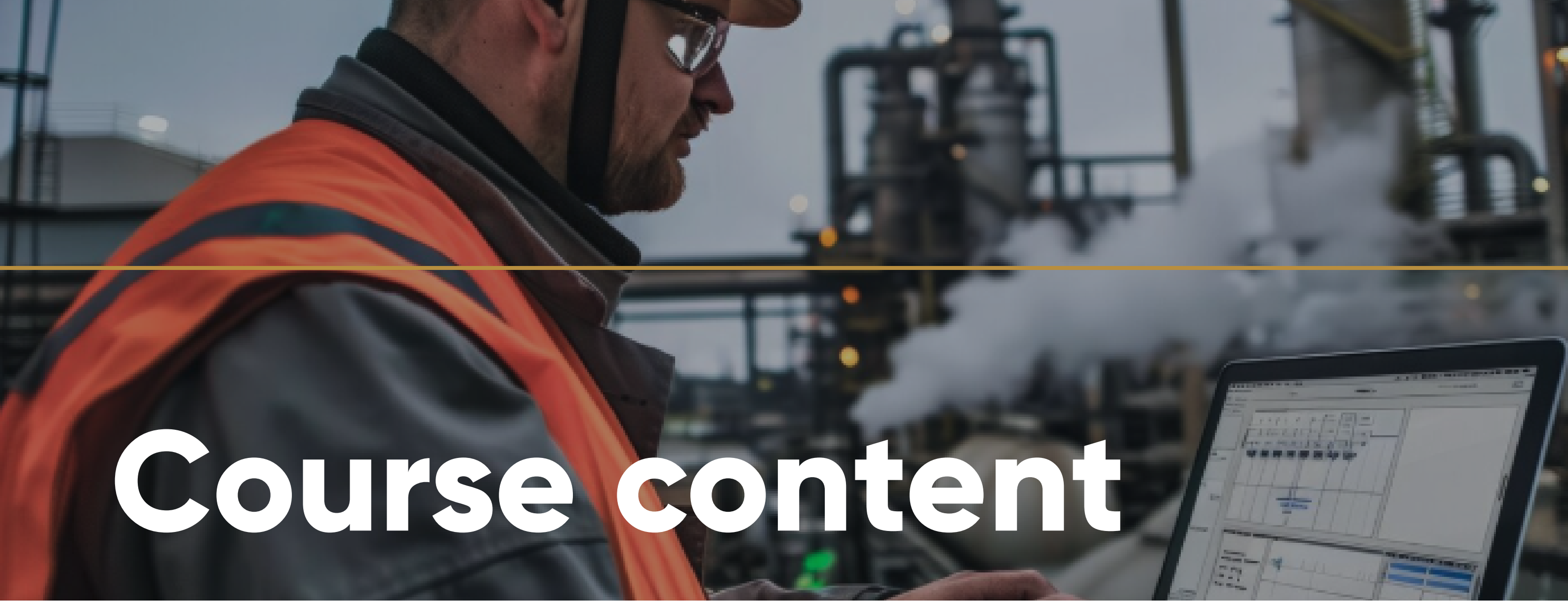
Target Competencies

- 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



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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

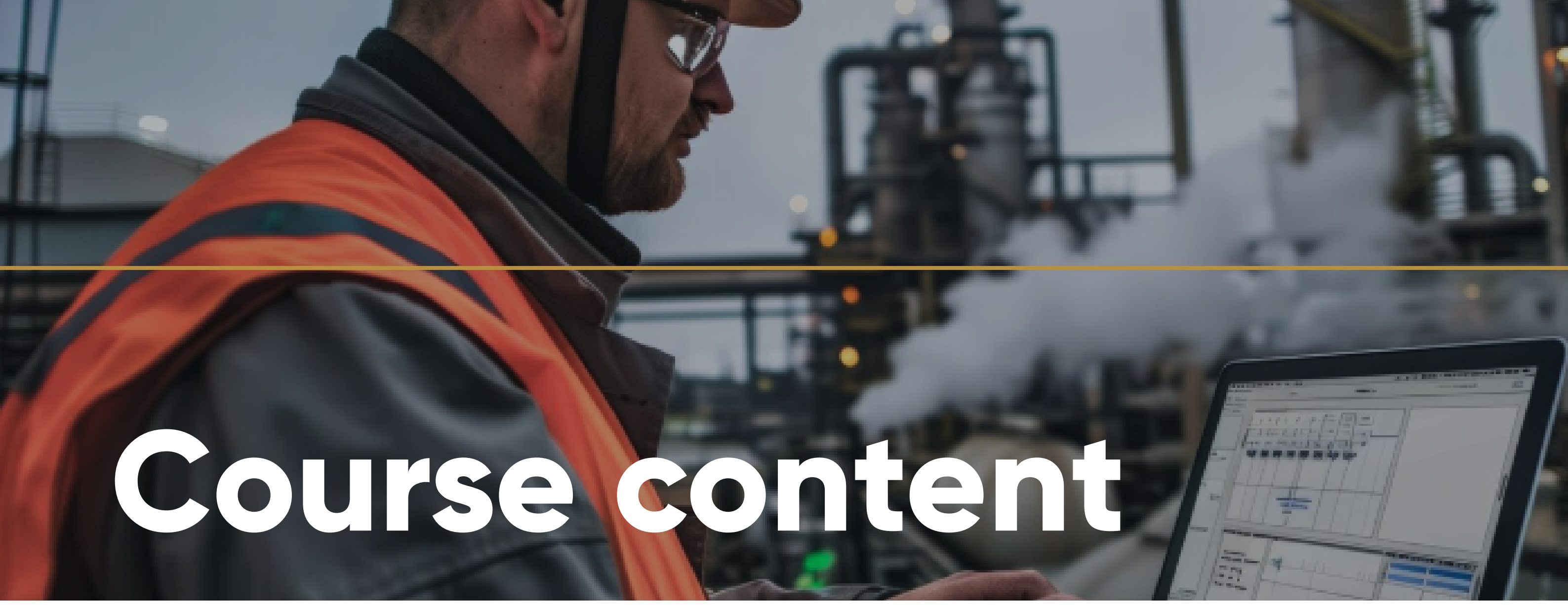
- Capital cost estimation methods
- Operating cost analysis
- Building petroleum project cash flow models
- Production profiles and decline curves
- Economic life of oil and gas assets

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



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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
10 – 14 August 2026	Munich – Germany	Classroom	**€4,200.-**
14 – 18 September 2026	Amsterdam – Netherlands	Classroom	**€4,200.-**
5 – 9 October 2026	Istanbul – Turkey	Classroom	**€2,850.-**
16 – 20 November 2026	London – U.K	Classroom	**€4,250.-**
7 – 11 December 2026	Barcelona – Spain	Classroom	**€3,850.-**
21 – 25 December 2026	Istanbul – Turkey	Classroom	**€2,850.-**

Live online option

Online delivery is available at €1,850.-.

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