Petroleum Project Economics & Financial Modelling

1 – 5 February 2027
Toronto (Canada)



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Ref: 321529_154331 **Date:** 1 – 5 February 2027 **Location:** Toronto (Canada) **Fees:** 6600 GBP

Introduction

Many senior and middle managers underutilize Excel, often limiting its use to basic calculations. If this resonates with you, this Petroleum Project Economics and Financial Modelling training course is tailored to bridge that gap. By completing this one-week course, you will gain the tools to fully harness Excel's capabilities and improve your decision-making in the oil and gas industry.

Additionally, for professionals in upstream or downstream sectors whose career growth is hindered by outdated modelling techniques, this course provides cutting-edge skills in petroleum project economics, risk analysis, and financial modeling to advance your career.

Course Objectives

By the end of this training course, participants will:

- Master advanced financial modeling techniques tailored to the oil and gas industry.
- Learn how to conduct economic analysis of oil and gas engineering operations.
- Enhance the quality of quantitative analysis in corporate presentations.
- Acquire the ability to model hedging strategies for price changes in the oil and gas market.
- Apply investment appraisal techniques, including decision trees and options to abandon.
- Gain insights into the economic impact of the oil and gas industry.

Course Outlines

Day 1: Introduction to Excel with Oil and Gas Examples

- A quick-start Excel tutorial for beginners and advanced users.
- Descriptive statistics: Summarizing data sets.
- Graphical representation of data: Trends and time series.
- Understanding normal distribution and its applications.
- Conducting trend analysis for upstream and downstream operations.
- Mini-case studies focusing on economic analysis of oil and gas projects.



Day 2: Statistical Analysis Using Excel in the Oil and Gas Industry

- Utilizing Excel functions for statistical analysis.
- Measures of central tendency: Mean, median, and standard deviation.
- Advanced statistical tools: Skewness, kurtosis, scatter diagrams, and histograms.
- Regression techniques for calculating equity financing costs.
- Equity return analysis for leading oil and gas companies.
- Mini-case studies emphasizing risk analysis.

Day 3: Investment Appraisal Techniques

- NPV, IRR, and payback period tailored to oil and gas economics.
- Advanced Excel functions for appraisal: IRR, PV, and NPV.
- Introduction to the Modified Internal Rate of Return MIRR.
- Scenario analysis and stress testing for financial resilience.
- Predicting financial distress using data-driven approaches.
- Mini-case studies with real-world investment scenarios.

Day 4: Financial Analysis in the Oil and Gas Sector

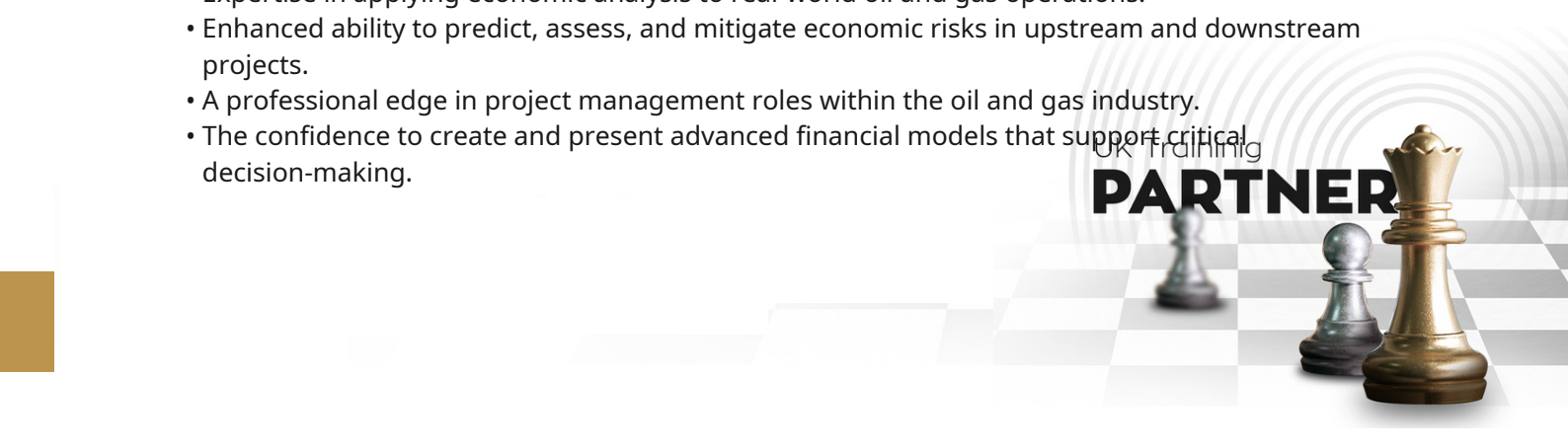
- Interpreting financial statements in the upstream and downstream industries.
- Conducting ratio analysis to assess performance and financial health.
- Understanding the pyramid of ratios for holistic analysis.
- Building cash flow forecasts using Excel.
- Exploring project management roles in oil and gas.
- Mini-case studies with applications in financial modeling.

Day 5: Oil Product Spreads and Advanced Analysis

- Examining the relationship between energy products.
- Analyzing differences in data sets and their economic implications.
- Correlation analysis for performance management in oil and gas.
- Confidence intervals and variance analysis ANOVA.
- Applications of financial modeling in risk management.
- Mini-case studies exploring the economic impact of oil and gas projects.

Why Attend This Course: Wins & Losses!

- Mastery of financial modeling techniques that are industry-specific, actionable, and practical.
- Expertise in applying economic analysis to real-world oil and gas operations.
- Enhanced ability to predict, assess, and mitigate economic risks in upstream and downstream projects.
- A professional edge in project management roles within the oil and gas industry.
- The confidence to create and present advanced financial models that support critical decision-making.



Conclusion

The Petroleum Project Economics and Financial Modelling training course equips participants with the essential tools and knowledge to excel in the competitive oil and gas industry. By mastering financial modeling, economic analysis, and project management techniques, you will be prepared to take on leadership roles and drive impactful decisions.

Whether you're aiming to advance in upstream, downstream, or a corporate setting, this course will provide the skills and confidence to elevate your career to new heights.

