Oil and Gas Financial Modeling

22 – 26 March 2027
Barcelona (Spain)



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Introduction

Financial modeling in the oil and gas industry is a critical tool for evaluating investment opportunities, forecasting cash flows, analyzing risks, and supporting strategic decision-making.
This training course provides participants with the knowledge and hands-on skills to design, build, and apply financial models that reflect the dynamics of oil and gas operations.
The program covers revenue forecasting, cost estimation, cash flow analysis, project valuation, and risk assessment, equipping participants to make informed and data-driven financial decisions that enhance corporate performance and sustainability.

Course Objectives

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

- Understand the fundamentals of financial modeling and its application to the oil and gas industry.
- Build dynamic financial models to forecast revenues and costs.
- Apply oil and gas financial modeling to analyze risks and create multiple scenarios.
- Utilize financial analysis tools to project long-term cash flows.
- Evaluate investment feasibility using modern valuation techniques.
- Integrate operational and financial data for improved decision-making.
- Enhance budgeting and strategic planning capabilities.
- Develop practical modeling skills using industry-standard tools.

Course Outlines

Day 1: Fundamentals of Oil and Gas Financial Modeling

- Introduction to financial modeling concepts and objectives.
- Key elements of financial models in energy projects.
- Project lifecycle and its link to financial analysis.
- Review of core financial statements revenues, expenses, profits.
- Practical exercise: Building a simple financial model.



Day 2: Preparing Data and Setting Assumptions

- Collecting and analyzing historical data.
- Establishing operational and economic assumptions.
- Oil and gas pricing models and forecasting methods.
- Developing revenue and cost schedules.
- Practical exercise: Defining realistic assumptions for models.

Day 3: Financial Forecasting and Operational Analysis

- Creating short- and medium-term financial projections.
- Linking operational forecasts with financial outcomes.
- Applying oil and gas financial modeling for cash flow projections.
- Sensitivity analysis for key business variables.
- Practical exercise: Developing a financial forecast for a new project.

Day 4: Investment Evaluation and Risk Management

- Techniques for project evaluation: NPV, IRR, and payback period.
- Identifying and assessing financial and operational risks.
- Scenario planning: best case, base case, worst case.
- Applying models to support investment decisions.
- Practical exercise: Comparing investment alternatives.

Day 5: Advanced Modeling and Final Project

- Integrating key performance indicators into financial models.
- Advanced techniques for building robust and flexible models.
- Preparing financial reports for strategic decision-making.
- Capstone project: Building a comprehensive oil and gas financial model.
- Review, Q&A, and participant feedback.

Why Attend this Course: Wins & Losses!

- Gain advanced financial modeling skills tailored for oil and gas.
- Improve forecasting accuracy and investment evaluation.
- Strengthen decision-making through risk-based analysis.
- Acquire hands-on experience with real-world financial scenarios.
- Enhance efficiency in budgeting and planning.
- Learn the latest practices and tools in financial modeling.
- Boost professional credibility with in-demand financial skills.
- Bridge the gap between financial and operational performance.



Conclusion

Oil and gas financial modeling is a cornerstone for effective financial management, investment evaluation, and strategic planning.
This training provides a comprehensive blend of theory and practice, enabling participants to design, build, and apply financial models that reflect real-world complexities of the oil and gas sector.
By the end of the course, participants will be equipped to forecast financial outcomes, evaluate investment projects, and manage risks with confidence.

They will leave with the skills to build strong, flexible, and professional-grade financial models that drive value creation and support sustainable business growth.

