Advanced Financial Modeling for Oil and Gas Professionals

16 – 20 May 2027
Dubai (UAE)



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Why This Course

Financial modeling plays a critical role in evaluating oil and gas projects, assessing investment opportunities, and supporting strategic decision-making in the energy sector. Due to the capital-intensive nature of exploration and production activities, finance professionals must be able to analyze production forecasts, commodity price fluctuations, and project risks using sophisticated financial models.

This intensive 1-week program is designed to help oil and gas professionals develop advanced financial modeling skills tailored to the unique characteristics of the energy industry. Participants will learn how to build industry-specific models, analyze project economics, evaluate reserves, and perform risk assessments. Through real-world scenarios and practical modeling exercises, the course equips participants with the tools needed to support investment analysis and strategic planning in oil and gas operations.

What You'll Learn and Practice

By participating in this program, you will:

- Build and analyze financial models tailored to oil and gas projects.
- Develop detailed cash flow projections and profitability analyses.
- Evaluate financing structures including debt and equity options.
- Apply forecasting techniques specific to oil and gas production and pricing.
- Conduct sensitivity and scenario analysis for investment decisions.
- Integrate risk assessment methods into financial models.

The Program Flow

Day 1: Fundamentals of Oil & Gas Financial Modeling

- Understanding key financial metrics and KPIs in the oil and gas industry.
- Analyzing revenue streams, production profiles, and cost structures.
- Building a basic revenue model for oil and gas production.
- Applying advanced Excel functions for financial modeling.



Day 2: Cash Flow Modeling and Project Finance

- Developing detailed cash flow projections.
- Calculating free cash flow to equity and project profitability.
- Modeling capital expenditures and operational costs.
- Structuring project financing with debt and equity components.
- Building a cash flow model for an upstream oil project.

Day 3: Valuation Techniques and Asset Evaluation

- Applying Discounted Cash Flow DCF and Net Asset Value NAV models.
- Understanding reserves and resources valuation techniques.
- Incorporating production decline curves and recovery rates.
- Evaluating oil and gas assets for investment decisions.

Day 4: Risk Analysis and Scenario Planning

- Performing sensitivity analysis on oil prices, production levels, and costs.
- Developing scenario plans for market and operational uncertainties.
- Applying Monte Carlo simulation for risk analysis.
- Evaluating project viability under different market conditions.

Day 5: Advanced Forecasting and Model Integration

- Applying production and commodity price forecasting techniques.
- Integrating risk-adjusted returns into financial models.
- Preparing financial model outputs for stakeholder reporting.
- Building a comprehensive financial model for an oil and gas asset.

Individual Impact

- Strengthen expertise in financial modeling for the energy sector.
- Improve analytical skills in project evaluation and investment analysis.
- Gain practical experience in building advanced financial models.
- Develop confidence in applying forecasting and risk analysis techniques.

Work Impact

- Improve financial evaluation of oil and gas projects.
- Strengthen investment decision-making and project feasibility analysis.
- Enhance risk assessment capabilities in energy sector investments.
- Support strategic planning through advanced financial modeling.



Training Methodology

This program emphasizes practical modeling and industry-specific analysis to ensure participants gain applicable skills. Training methods include:

- Hands-on financial modeling exercises using Excel.
- Real-world case studies from the oil and gas industry.
- Group activities focused on project evaluation and forecasting.
- Scenario-based analysis of market risks and operational challenges.
- Templates and frameworks for building energy sector financial models.

Beyond the Course

By the end of the program, participants will be able to:

- Build comprehensive financial models for oil and gas projects.
- Develop risk assessment frameworks for energy investments.
- Evaluate asset value using industry-specific valuation methods.
- Use scenario analysis tools to support strategic decision-making in the energy sector.

