

Project Economics, Risk & Decision Analysis Training Course

2027 10 - 6
Seattle, Washington (USA)

UK Training

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R202223051950086 **Location:** Seattle, Washington (USA) **Fees:** 5900 GBP

Why This Course

In the oil and gas industry, project decisions involve large capital commitments, long development timelines, and significant uncertainty. Sound economic evaluation is essential for understanding project value, comparing opportunities, managing downside exposure, and supporting disciplined investment choices. Professionals working in this environment need more than technical awareness. They need the ability to connect project economics, risk analysis, and decision-making in a practical and structured way.

This intensive 5-day course provides a comprehensive understanding of project economics, risk analysis, and decision-making in the oil and gas industry. Participants will learn to construct cash flow models, evaluate economic indicators, assess risks, and make informed investment decisions. The course combines theoretical concepts with practical applications, using real-world case studies and Excel-based exercises.

What You'll Learn and Practice

By joining this program, you will:

- Develop proficiency in constructing and analyzing project cash flow models.
- Master the application of economic indicators for project evaluation.
- Gain skills in identifying, quantifying, and mitigating project risks.
- Learn decision-making techniques under uncertainty.
- Understand various economic structures in the oil and gas industry.
- Apply economic evaluation techniques to real-world oil and gas projects.

The Program Flow

Day 1: Fundamentals of Project Economics

- Introduction to petroleum economics.
- Time value of money concepts.
- Cash flow analysis and modeling.
- Depreciation methods and tax considerations.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with other pieces like a silver pawn and a gold pawn visible. The board is checkered, and there are concentric circles in the background.

Day 2: Economic Indicators and Project Evaluation

- Net Present Value and Internal Rate of Return.
- Payback period and profitability index.
- Project ranking and screening techniques.
- Sensitivity analysis.

Day 3: Risk Analysis and Management

- Types of risks in oil and gas projects.
- Probability concepts and expected value.
- Decision tree analysis.
- Monte Carlo simulation.

Day 4: Decision-Making Under Uncertainty

- Value of information analysis.
- Portfolio theory and optimization.
- Real options analysis.
- Risk mitigation strategies.

Day 5: Applied Project Economics

- Economic evaluation of exploration projects.
- Production sharing agreements and fiscal regimes.
- Integrated economic modeling for field development.
- Case study: Full-cycle economic analysis.

Individual Impact

- Strengthen your ability to build and interpret economic models for oil and gas projects.
- Enhance your skills in project evaluation, uncertainty analysis, and investment screening.
- Build stronger capability in using risk analysis tools to support better decisions.
- Gain practical confidence in applying project economics to real industry scenarios.

Work Impact

- Improve the quality of project evaluation and capital allocation decisions.
- Strengthen risk-informed decision-making across oil and gas investments.
- Support better comparison of development options, fiscal structures, and project outcomes.
- Enhance the organization's ability to evaluate uncertainty and improve investment performance.

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver, set against a background of concentric circles.

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Training Methodology

This program integrates petroleum economics, risk assessment techniques, and practical application to ensure real-world relevance and professional impact. Learning methods include:

- Real-world case studies on oil and gas project evaluation and investment decisions.
- Practical exercises in cash flow modeling, economic indicators, and sensitivity testing.
- Interactive workshops on decision trees, Monte Carlo simulation, and uncertainty analysis.
- Group discussions on fiscal regimes, project screening, and risk mitigation approaches.
- Frameworks and tools for applying project economics and risk analysis in oil and gas environments.

Beyond the Course

Upon completion, participants will be better equipped to evaluate oil and gas projects with greater confidence, analytical rigor, and commercial awareness. They will return ready to:

- Build stronger economic models for project assessment.
- Apply risk analysis techniques more effectively in uncertain project environments.
- Support better investment and portfolio decisions in oil and gas operations.
- Contribute to more disciplined and value-focused project decision-making.

A graphic of a chessboard with several chess pieces (a king, a queen, and a pawn) in the bottom right corner. The board is checkered, and the pieces are in gold and silver. Concentric circles emanate from behind the pieces.

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