



Petroleum, Oil & Gas



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Course: Oil & Gas Economics & Risk Evaluation

Code	City	hotel	Start	End	price	Hours
148	Doha (Qatar)	Hotel Meeting Room	2024-06-30	2024-07-04	3450 €	25

Introduction

Economic evaluation in the oil and gas industry is an encompassing activity. It involves the bringing together of the principal technical and commercial dimensions of a project into a forecast of future performance, that allows different projects to be compared and ranked according to economic and/or other criteria. At its heart, economics is an organizing and quantification exercise. Increasingly, its boundaries are expanding to include a quantification of risk. Risk analysis is a rapidly growing discipline that can take many different forms. It is best understood and applied one step at a time - for professionals and for organizations.

Seminar Objectives

- Introduce the fundamentals of economic evaluation and of risk analysis in the oil and gas industry.
- Focus on basic, simple and pragmatic solutions.
- Build understanding, apply concepts, use software tools, increase sophistication one step at a time.
- Understand alternative approaches - advantages and disadvantages.
- Use real life examples and situations.

Organizational Impact

- Develop a clear understanding of the role of economics and risk analysis in an organization.
- Put current economic evaluation/risk analysis practices of your organization into context.
- Choose and apply approaches that make sense to your organization.
- Make better business decisions with better decision tools.

Personal Impact

- Sharpen and modernize evaluation skills.
- Become conversant in the languages of economic evaluation and risk analysis.
- Understand fundamentals, learn to take a practical approach.
- Put economics and risk into perspective.

Who Should Attend

This seminar takes a building block approach to understanding what economic and risk analysis is about. It is designed to become as sophisticated as its participants are comfortable. It will initially be a refresher course for



those who are economics professionals and provide a framework for those who are not. We will advance our understanding as a group – learning from real examples and from each other – and we will take a hands-on approach at every opportunity. This is a course for anyone who has an interest in this field.

Seminar Outline

DAY 1

Introductions

- Who we are, what we hope to accomplish.

Economics 101

- What is economics, where does it fit in an oil & gas company, who are the economists, when do they become activated, why is their work important?
- Exploration versus development versus acquisitions & divestitures.
- The many faces of the economist – economist as expert, organizer, innovator, motivator, communicator.
- The many facets of economics – quantify, optimize, compare and combine projects.
- Beyond economics – financing, financial impact.

The Economic Model

- The framework for economic analysis.
- It's about cash – cash flow versus income, integrated financial statements, value creation.
- It's about the future – point forward versus full-cycle evaluations.
- The fundamentals of cash flow projection – revenues and costs.
- Modeling options – software, styles, needs.

DAY 2

- Recap of Day 1

The Economic Model (cont'd)



- An example – cashflow, economic indicators, graphics, analysis.
- In class assignment and presentations.
- Learning to be critical.

Introduction To Risk

- Exploration risk versus development risk – reserves risk, cost/schedule risk.
- Risk versus uncertainty.
- Risk versus opportunity.
- Risk analysis versus sensitivity analysis.
- Quantitative versus qualitative.

Statistics 101

- About probability distributions.
- Basic statistical concepts – mean, median, mode, skewness.
- About combining probability distributions – Monte Carlo simulation, correlation, tendencies.
- Software tools – Crystal Ball, @Risk, other.
- In class assignment and presentations.

DAY 3

- Recap of Day 2

An Exploration Example

- Set the scene – probability of geological success, reserves distribution, minimum commercial field size, truncation, probability of economic success.
- Simple 5-branch decision tree – success case, risked results.
- What it all means.
- An alternative approach – Monte Carlo simulation.
- Decision trees versus Monte Carlo – two sides of the same coin.
- In class assignment and presentations.
- Getting more sophisticated – a real world example.



DAY 4

- Recap of Day 3

A Development Example

- Set the scene.
- Different priorities at different stages – optimizing decisions, costs and schedule.
- Optimizing decisions – a real world example – from sensitivity analysis to stochastic results.
- The importance of presentation – making it simple.
- Where is the value?

DAY 5

- Recap of Day 4

Cost Analysis

- What is it? Why is it important? Benefits and pitfalls.
- Basic concepts – most likely estimates, deterministic totals, contingency and its dynamics.
- A real world example – the long and short of it.

Other Concepts

- Value of Information, Real Options, RAROC, other.
- Keep on exploring and learning.

Recap

- Concepts, applications & implications.
- What it means for you and your organization



The Scandinavian Academy employs modern methods in training and skills development, enhancing the efficiency of human resource development. We follow these practices:

- **Theoretical Lectures:**
 - We deliver knowledge through advanced presentations such as PowerPoint and visual materials, including videos and short films.
- **Scientific Assessment:**
 - We evaluate trainees skills before and after the course to ensure their progress.
- **Brainstorming and Interaction:**
 - We encourage active participation through brainstorming sessions and applying concepts through role play.
- **Practical Cases:**
 - We provide practical cases that align with the scientific content and the participants specific needs.
- **Examinations:**
 - Tests are conducted at the end of the program to assess knowledge retention.
- **Educational Materials:**
 - We provide both printed and digital scientific and practical materials to participants.
- **Attendance and Final Result Reports:**
 - We prepare detailed attendance reports for participants and offer a comprehensive program evaluation.
- **Professionals and Experts:**
 - The programs scientific content is prepared by the best professors and trainers in various fields.
- **Professional Completion Certificate:**
 - Participants receive a professional completion certificate issued by the Scandinavian Academy for Training and Development in the Kingdom of Sweden, with the option for international authentication.
- **Program Timings:**
 - Training programs are held from 10:00 AM to 2:00 PM and include buffet sessions for light meals during lectures.