Petroleum Project Economics & Risk Analysis

05 - 09 Nov 2017, Dubai
**Why Choose This Training Course?**

Exploration and Production companies often must evaluate their potential E&P investment using proper present value analyses of expected future cash flows. From the projected cash flows and required investments, the annual rate of return and other project economic indicators can be extracted to evaluate the significance of company investment.

This training course provides practical guidance in the application of the techniques of the economic analysis currently used in the Oil & Gas industry. When executing a petroleum related project, one should be able to choose the best alternative from economic point of view as well as to properly evaluate various investment opportunities by determining economic indicators and sensitivity analysis. Techniques for predicting profit, production, costs, and cash flow enable the analyst to evaluate decision alternatives for optimum results. Understanding economic indicators, risk and uncertainty, different economic structures such as tax regimes and production sharing contracts, enhances the quality and the value of economic analysis.

This training course will highlight:

- Familiarization with the application techniques of the economics analysis in the Oil & Gas industry
- Petroleum related project evaluation methods
- Screening of the petroleum projects based on evaluating the investment opportunities
- Identifying the risks and uncertainties of the project
- Application of risk management methods in mitigating the identified risks of the project

**What Are the Goals?**

The primary objectives of this training course are to:

- Understand various economic terms used in the Oil & Gas industry
- Understand how to develop economic models of various petroleum fiscal regimes
- Carry out cash flow analysis, different economic analyses for petroleum related project and determine economic indicators
- Evaluate and quantify risks and uncertainties
- Make the right investment decision in the presence of risk
- Carry out a comprehensive economic evaluation study for any petroleum related project including risk analysis and sensitivity study using spreadsheet
- Contribute to the petroleum project investment within a solid economic system and do a detailed economic evaluation
- Contribute to the decision-making process for any petroleum related project

**Who is This Training Course For?**

This PetroKnowlidge training course is designed to provide technical and practical approaches to executing a petroleum related project in upstream sector.

This training course is suitable to a wide range of professionals but will greatly benefit:

- Oil & Gas Field Engineers
- Oil & Gas Managers
- Oil & Gas Auditors
- Oil & Gas Planners
- Financial Analysts

**How Will This Training Course Be Presented?**

The training approach is based on principles of economic evaluation of petroleum related project with focusing on step by step developing economic models, determining economic indicators, evaluating and quantifying risks and uncertainties and making the right investment decision for the project. To facilitate that, the Microsoft Excel based economics modules will be built and all discussions will be provided using high quality power point slides.
DAILY AGENDA

Day One: Cash Flow Analysis
- Familiarization with Economic terms
- Setting up Cash Flow Calculation
- Depreciation Methods
- Loss Carry Forwards
- Inflation
- Nominal & Real Cash Flow
- Sunk Costs
- Project Financing

Day Two: Economic Indicators
- Economic Indicators Definitions
- Present Value Concept
- Discount Factor
- Net Present Value
- Internal Rate of Return
- Effect of Project Delay
- Payback Period
- Profit/Investment Ratio
- Incremental Projects

Day Three: Risks and Uncertainties
- Risk & Uncertainty
- Expected Value Concept
- Decision Tree Analysis
- Farm-out Decision
- Probability Analysis
- Sensitivity Analysis
- Probability Distribution
- Monte Carlo Simulation

Day Four: Setting up Spreadsheet Calculation
- Introduction to Spreadsheet Calculation
- Simple Cash Flow using Excel
- NPV calculations
- Application of economic indicators
- Class discussion

Day Five: Setting up Oil Field Development Model
- Group activities
- Setting up an Integrated Economic Model of a Typical Oil Field Development
- Project Sensitivity Analysis for the selected model
- Introduction to Russell field model
- Final remarks
Petroleum Project Economics & Risk Analysis

COURSE DATES, VENUES AND FEES

<table>
<thead>
<tr>
<th>Date</th>
<th>Venue</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>05 - 09 Nov 2017</td>
<td>Dubai</td>
<td>$5,500</td>
</tr>
</tbody>
</table>

This fee is inclusive of documentation, lunch and refreshments.

Please use BLOCK CAPITALS to fill in this form. It is important that you read carefully through all information before starting to complete the form.

REGISTRATION DETAILS

Family Name: ___________________________________________
First Name (Mr./Ms.): ______________________________________
Position: ________________________________________________
Company: _______________________________________________
Mailing Address: ________________________________________

Telephone:____________________ Mobile: __________________
Fax: _______________________ Email: _____________________

AUTHORISATION

Authorised By: __________________________________________
Position: ________________________________________________
Company: _______________________________________________
Mailing Address: ________________________________________

Telephone:____________________ Mobile: __________________
Fax: _______________________ Email: _____________________

BOOKING TERMS & CONDITIONS

Booking
• Bookings for courses can be made via our website (petroknowledge.com) or by contacting our Registration Desk on +971 2 5577389 or at reg@petroknowledge.com
• For on-line bookings, please select the course that you require and click on the “Register Now” button, following the instructions step by step
• Upon receipt of booking in order, enrolment on the respective training course will be confirmed by Registration Team with all necessary documentation

Invoicing and Payment
• Our fees include course presentation, relevant materials, physical & digital documentation, lunch and refreshments served during entire training. Accommodation charges are not included in the course fees
• Course fees are payable upon booking unless a valid, authorized Purchase Order is provided and accepted
• Invoices will be sent via email/courier to the ID/name and address provided
• We prefer to have the fees payment in our account before the start of training course. However, if your company has a different payment policy, the same should inform us in advance
• The currency of fees is in US Dollars (USD). Payments can be made in USD or UAE local currency AED (Arab Emirates Dirhams) either by Bank Transfer or by Credit Card. Our Bank Account details will be provided on the Invoice
• Please note that we do accept payment by cash, in USD or AED, only for the last minute bookings

Cancellation of Courses
• It may be necessary for PetroKnowledge to amend or cancel any course, course times, instructors, dates or published fees due to unforeseen circumstances and we reserve the right for such changes
• Any amendments will be advised before the course start date and any bookings already paid in full will not be subject to increased fees

Cancellation by Client
• Once you have completed your booking, received your confirmation of enrolment and a dated payment invoice, you are deemed to have a contract with PetroKnowledge. You reserve the right to cancel this contract given the below terms
• All cancellations must be received in writing at reg@petroknowledge.com and info@petroknowledge.com at least 14 days prior to the training
• After the cancellation period has expired, consideration may be given, on a case to case basis, if a registered delegate nominates a substitute on the same course, shifts to next session of the course or moves to a new course
• For a cancellation request made on or before the statutory 14 day cancellation period, a refund may be given or a credit note issued which can be used against future course fees
• A 25% administration fee (of the total course fee at the time of booking) will be charged for any cancellations made outside of the statutory cancellation period

Attendance Certificate
• The daily course schedule should be accurately followed to ensure undeterred implementation of our training
• All delegates, who participated in their course throughout, will receive the Certificate of Completion on the last day
• Please report any foreseeable absences to a PetroKnowledge representative or to your sponsors directly
• An absence of three (3) or more sessions of the course will invalidate your eligibility for the Certificate of Completion

P.O. Box: 135120, Abu Dhabi, U.A.E.
T: +971 2 5577 389
F: +971 2 5577 128
E: info@petroknowledge.com
www.petroknowledge.com