



**Asia Masters Center**

## Risk Analysis in Petroleum Industry





## Risk Analysis in Petroleum Industry

### ➔ Course Objective

- 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

### ➔ Target Audience

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



## Course Outline

### ➤ **DAY 1**

- 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 2**

- 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



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### ➤ **DAY 3**

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

### ➤ **DAY 4**

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

### ➤ **DAY 5**

- 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

### ➤ **The Feature Of Asia Master Training And Development Center**

- we pick up the customer from the airport to the hotel.
- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

### ➔ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.



## Asia Masters Center

### Price (USD)

Communicate with the training department  
to know the participation fees

➤ **There are offers and discounts for groups**

### The details of the bank account

Bank name: CIMB Bank Berhad

Account name: Asia Masters Center SDN. BHD

Bank account number: 80-0733590-5

Swift code: CIBBMYKL

IBAN: Null