



Asia Masters Center

Petroleum Management



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Petroleum Management

Course Objective

- To provide delegates with the understanding, knowledge and strategies that oil & gas management must make for success. By the end of program delegates will be able to:
- Have an understanding of the ways the oil & gas and energy industries have organized to operate effectively and efficiently
- Recognize the latest Game-changing technologies – seismic, well logging, horizontal drilling, fracking, gas to liquid, etc.
- Distinguish the renewable sources of energy and the future trends in Solar, Wind, Wave, Hydro, Geothermal, Nuclear, and the methodology to compare the costs of energy of each source
- Understand the benefits of integrating refineries with petrochemicals
- Gain an understanding of the ways the oil and gas industries have organized to operate effectively and efficiently

Target Audience

- Engineering and Technical Managers and Supervisors from any industry
- Maintenance Planners and Coordinators
- Operations and Manufacturing Managers and Supervisors
- Foremen and Team Leaders
- Plant Engineers and Process System Managers
- Section Engineers and Planners



Course Outline

Day 1

Sources, Origin and Nature of Petroleum

- Introduction
- Industry overview
- Chemistry of fossil fuels
- Origins of hydrocarbon deposits
- Basic petroleum geology
- Exploration methods & activities

Day 2

Well Evaluations & Drilling Operations & Reservoir Management

- Types of wells
- Well Evaluations
- Drilling Operations
- Well Completions
- Oil & Gas Reserve Estimates
- Volumetric Calculations – Original Oil & Gas In-Place
- Reservoir Depletion Mechanisms
- Declining Curve Analyses
- Case Study: Oil Reserves estimation

Day 3

Conventional & Unconventional Production

- Unconventional oil & gas
- Shale Oil & Gas, Tight Gas, and Heavy Oil Recovery
- Oil recovery methods
- Primary, Secondary and Tertiary
- Enhanced Oil Recovery Techniques



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- Reservoir Management – maximize ultimate recovery of oil

Day 4

New Oil & Gas Field Development and Economic Evaluation

- Typical Decision Yardsticks
- Petroleum Economics Analysis:
 - Net Present Value
 - Internal Rate of Return
 - Profitability Index
 - Unit Tech Cost
 - Economic Limit
- Case study: Oil and gas field development economic evaluation

Day 5

Oil & Gas Contracts & Joint Ventures

- Need for collaboration between parties – NOC's and IOC's
- Alignment of interests
- Oil & Gas Contracts
 - Types of Contracts
 - Concession agreements
 - Production Sharing Agreement/Contract (PSA/PSC)
 - Technical Service Contract/Agreement (TSA)
- Joint Venture and Service agreements

Day 6

Petroleum Fiscal Regimes

- Comparison of fiscal regimes
- Auction theory and methods
- Similarities among fiscal systems
- Accounting aspects of fiscal systems
- Division of revenues and profits



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- Concession
- Concession rentals
- Unitisation agreements
- Royalties
- Profit tax
- Corporate tax
- Ring fencing
- State participation
- Signature bonus
- Production bonus
- Bidding for leases

Day 7

The chemistry of petroleum and the refining processes

- Crude and Product Quality
- Crude oil refining operations
- Crude Oil Fractions
- Crude Oil Refinery Products & Processes
- Refinery configurations – separation, conversion and treatment
- Refining Complexity
- Pipelines
- Storage
- Treatment & Blending
- Utilities

Day 8

Refining Economics – environmental aspects

- Refinery economics
- Benefits of Integrating with Petrochemicals
- Global oil reserves, production & trade movements
- Crude Oil and Refining gross product worth (GPW)
- Freight



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- Netback and Refining Margin
- Vessel chartering
- Environmental aspects
- Case Study: Netback pricing calculation

Day 9

Oil & Gas Exports and Imports Business

- Organization of Petroleum Exporting Companies (OPEC)
- Other international and multi-national organizations
- International Energy Agency (IEA)
- Oil Markets – Crude pricing regimes
- Transportation Logistics – Pipelines, Terminals and Storage
- Crude Oil Tankers
- World's Major Pipelines
- World's Major Terminals, Refineries
- Transportation Logistics – Losses
- Bottle necks and Chokepoints

Day 10

Pricing, Trading, Markets, Risk Management

- Crude oil Benchmarks
- Crude price assessment
- Oil Trading
- Total Barrel Economics
- Oil Markets – Futures
- Exposure – Price
- Hedging – risk management
- Pricing Management Considerations
- Derivatives
- Course Summary

➤ **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.



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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

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