

OVERVIEW OF THE OIL AND GAS INDUSTRY

23 - 25 Mar 2015 / KL, Malaysia

A 3-day introductory course that will concentrate on the key topics of the petroleum industry, which will provide a broad overview of today's hydrocarbon business.



WHO SHOULD ATTEND?

This is an entry-level level course intended for both technical and business oriented professionals who are either new to the upstream oil and gas industry or experienced in one part, but could benefit from a wider point of view; all levels of support staff working in the industry, as well as related government agencies, NGOs, financial institutions and service providers with a need to better understand the industry. No previous specific knowledge is required.



INSTRUCTOR :

DR. JAN DE COO is a seasoned professional with more than 37 years' experience in the global petroleum industry.

He earned a PhD in geology from Leiden University in The Netherlands, after which he was appointed lecturer at the National University of Malaysia in Kuala Lumpur, to teach historical geology, sedimentology and computer applications in geology. In 1977 Dr. De Coo joined Shell International Petroleum, where he worked in various roles in the field of exploration geology based in Tunisia, Malaysia, Nigeria, Russia, Kazakhstan and China. During his employment at Shell, he was instrumental in numerous significant oil discoveries and the development of major industry projects.

At the end of 1999, Dr. De Coo left Shell and worked as an independent petroleum geologist in Morocco and Suriname. In 2005 he joined a consultancy agency in The Netherlands to work for numerous clients around the world. During

History of Oil and Gas

Throughout the history of mankind, energy has been the key enabler of its development. In the past century and a half, hydrocarbons played a vital role.

Upstream

The upstream segment of the oil and gas business is known as the exploration and production (E&P) sector. It relates to all activities from the search for, recovery of, to production of hydrocarbons.

Midstream

The midstream segment encompasses facilities and processes that are between the upstream and downstream segments. These include processing, storage and transportation of crude oil and natural gas.

Downstream

Transporting and selling refined products made from crude oil is the business of the downstream segment of the oil and gas industry. Key downstream business sectors include: oil refining, product marketing and distribution.

Business Processes and Risk Management

A key aspect of today's oil and gas business planning and decision-making is the varying amounts of risk inherent in the wide range of investment options. This topic addresses how to plan for (and evaluate) these various risks.

Industry Trends in Oil and Gas

Income and population are two of the most important variables that determine a country's energy demand. As prosperity rises, incomes rise, and so does demand for energy. What is the future going to be?



FOR ENQUIRIES

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this period he developed a new niche market for the application of geothermal energy in The Netherlands, which since then has taken off with great success. In 2010, Dr. De Coo joined Petronas Carigali in Kuala Lumpur, Malaysia, in the role of custodian international exploration and staff competency development. After leaving Petronas Carigali in 2013, he worked intermittently as petroleum geological advisor for various international clients.

Dr. De Coo is an active member of various international professional societies, amongst which AAPG (American Association of Petroleum Geologists), EAGE (European Association of Geoscientists and Engineers) and KNGMG (Royal Geological and Mining Society of The Netherlands).

COURSE OBJECTIVES

After completing this course, participants will have a broad, big-picture understanding of how the petroleum industry works and what are the current issues and concerns. This knowledge will enable them to better communicate with management, colleagues, clients and various stakeholders.

FEE	1 PAX	3 PAX OR MORE
Per Person	USD 3195.00	USD 2995.00
Early bird discount - Pay Online with Credit Card by 28th February to SAVE USD 300.00 per person		

COURSE AGENDA

DAY 1

HSE briefing, introduction and housekeeping issues

Session 1: **History of Oil and Gas**

A brief history of the oil and gas industry and its impact on the society.

- How and why did oil become the preferred energy source.
- Who were the original Super Major oil companies and the Seven Sisters.
- The role of OPEC and the shift from the dominance of oil-consuming to oil-producing countries.
- What did change the balance of power between IOCs and NOCs.
- What is the role of independents.
- What are the implications of recent developments in unconventional oil and gas production?

Session 2: **Upstream**

An introduction to the exploration and production (E&P) sector.

- What is the Upstream about.
- What kinds of petroleum licenses exist.
- Overview of exploration methods and techniques (geology & geophysics).
- Drilling techniques and the evaluation of well results, including petrophysics, well testing and data collection.
- The upstream business model, from exploration, appraisal, production to abandonment.
- Who are the players and what is the role and relationship of service companies.



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COURSE AGENDA

DAY 2

HSE briefing, introduction and housekeeping issues

Session 3: **Midstream**

An overview of the processing, storage and transportation processes of crude oil and natural gas.

- Field processing; treatment of oil and gas; complex transportation issues; transmission and distribution infrastructure.
- Storage facilities for crude oil and refined liquids including bulk terminals, refinery tanks and holding tanks.
- Underground Gas Storage (UGS)
- The implication of a low-risk, highly-regulated segment of the oil and gas industry.

Session 4: **Downstream**

The process of distribution and sales of natural gas and refined products made from crude oil.

- The refining of crude oil into consumable products and the marketing of these products to commercial or retail end-users.
- Light, medium and heavy products.
- LNG, NGL and LPG.
- The significance of a complex, small-margin global business.

DAY 3

HSE briefing, introduction and housekeeping issues

Session 5: **Business Processes and Risk Management**

The decision-making practice of oil and gas investments and how risks are managed.

- Uncertainties and risks when developing a project and how to mitigate them.
- The basic analytical approach used by the oil and gas industry for investment planning.
- The concept of Net Present Value, Internal Rate of Return, and Return on Investment.

Session 6: **Industry Trends in Oil and Gas**

What are the current issues in the industry and what might the future bring?

- The future role of OPEC.
- Emerging NOCs and declining IOCs.
- The transition from oil and gas to gas and oil industry.
- Unconventional and renewable energy.
- The need to invest massive amounts of capital in the coming years.
- Increasing upstream and downstream construction costs.
- Climate change and the restriction of CO2 emissions.
- The concept of independence and interdependence.

An interactive Q&A meeting, recapitulating the key learning points and addressing specific interests of the audience, will conclude every session.



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