

PETROLEUM GEOLOGY FOR NON-GEOLOGISTS

2 - 4 Nov 2015 | Bandung, Indonesia

After completing this course, participants will have a broad awareness of the basics of petroleum geology and its application in oil and gas exploration. This knowledge will enable them to communicate more effectively and perform their profession with greater impact. Exercises throughout the course will provide a helpful insight of the various tools and techniques used by the petroleum geologist.



TRAINER'S PROFILE : DR. JAN DE COO

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 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).

A 3-day introductory course that will explain to non-geologists the vocabulary, tools and techniques of petroleum geology and the petroleum geologist. The course will cover the following topics:

- The history and impact of the search for energy on the development of mankind and society
- The formation of rocks and petroleum (basics of physical geology)
 - Geological time and earth history
 - Stratigraphy
 - Sedimentology and sedimentary rocks
 - Structures in the earth crust
 - Sedimentary basins and petroleum systems
- The occurrence, distribution, and nature of oil and gas.
- The application of geological and geophysical data in petroleum exploration
- The drilling of exploration wells and evaluating their results
- The estimation of hydrocarbon reserves

Who should attend?

This is an entry-level course intended for participants without a formal geology education. It will be beneficial for a wide range of petroleum industry staff from ICT, geomatic support, managers, accountants, attorneys, and administrative people.

Petroleum service staff, petroleum banking, investors, financial ventures staff, human resources staff, geophysicists and engineers without geological training, will gain valuable insights. The course is also useful for regulatory government organisations in need of basic petroleum geological knowledge.

FEE	1 PAX	3 PAX OR MORE
Per Person	USD 2995.00	USD 2795.00

**Early bird discount - Pay Online with Credit Card by 28th Feb
to SAVE USD 300.00 per person**



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COURSE AGENDA

DAY 1

HSE briefing, introduction and housekeeping issues

Session 1: History and impact of the search for oil and gas.

- How and why did oil become the preferred energy source.
- Who were the initial players.
- The role of OPEC.
- What did change the balance of power between IOCs and NOCs?
- What are the implications of recent developments in unconventional oil and gas production?

Session 2: The formation of rocks and petroleum (basics of physical geology).

- Geological time and earth history
- Stratigraphy
- Sedimentology and sedimentary rocks
- Structures in the earth crust
- Sedimentary basins and petroleum systems

DAY 2

Session 3: The occurrence, distribution, and nature of oil and gas.

- Global oil and gas basins
- The world's oil and gas fields
- Heavy and light oil
- Sweet and sour gas
- Unconventional oil and gas

Session 4: Application of geological and geophysical data in petroleum exploration.

- Overview of exploration methods and techniques (geology & geophysics).
- Aerial photography and satellite imagery.
- Potential field methods (gravity and magnetics).
- Reflection Seismic and seismic interpretation.
- Geological mapping and subsurface modelling.

DAY 3

Session 5: Drilling of exploration wells and evaluating their results.

- Drilling techniques and the evaluation of well results, including petrophysics, well testing and data collection.

Session 6: Estimation of hydrocarbon reserves.

- Reservoir thickness
- Porosity
- Permeability
- Shrinkage factor
- Recovery factor
- Area-depth graphs
- Simple deterministic volumetric calculation techniques
- Resource classification

Various exercises will be included during some sessions, to enhance the learning experience.