

**Course Name:** Principles and Techniques of Hydrocarbon Production in the petrochemical environment

**Reference Code : TEC 436**

### Description:

The Hydrocarbon Production Operations training course aims to provide the participants with an integrated view of how oil and gas is produced, focusing on production and related facilities throughout the lifetime of the reservoir. The role of current technology will be presented and in addition, will include an overview of new and emerging technologies used to improve the bottom line, in the current competitive low oil price environment.

An understanding of the wide range of oilfield production handling and treatment equipment that are utilized during exploration and production will be reviewed during this PetroKnowledge training course and participants will be able to appreciate how fluids behave in the reservoir and how these are extracted processed and refined into finished on-specification marketable products. Reserves calculation and fluids properties, from reservoir through to the gathering network, as well as the necessary knowledge required on how equipment and facilities are operated to maximize production and at the same time minimize costs of this valuable resource, will be presented.

### Course Objective:

This training course provides a wider management perspective of the global oil and gas business and highlights the success factors in each of its essential components. It follows the natural order of business, starting with exploration, supply and transportation and followed by refining, distribution and trading operations.

Business case studies of crude oil evaluation, price estimation, netback and refinery margin calculations, transportation and storage costs, sales contracts, product quality etc. will be examined. The training course, through the use of visual aids and simulations, will consider several complex operations, such as, drilling, completion, refining, and transportation.

### At the end of this training course, you will:

- Gain a broad perspective of the global oil business: Exploration, production, supply, transportation and refining
- Boost your fundamental analysis of netbacks and refinery margin calculations, vessel chartering, pipelines & terminals
- Learn the technical, commercial and environmental aspects of the oil and gas business
- Appreciate the causes and impact of the recent price volatility in crude oil and natural gas markets.

#### United Arab Emirates

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- Recognize the cause and effect of unconventional oil and gas on the industry from a financial and environmental perspectives

### Programme Methodology:

Participants will learn by active participation through the use presentations, case studies, interactive practical exercises, quizzes, training videos and discussion of technological issues related to oil supply, transportation and refining in their organizations.

### Who Should attend?

- New professionals joining the industry, who use the course as introduction to the chemical business
- Experienced professionals who wish to refresh and broaden their knowledge and to understand how the industry is connected
- Professionals from the financial sectors, consulting companies, legal, and research institutions, who deal with the chemical industry
- Personnel from various functional areas, such as marketing, planning, logistics, procurement, HR, and corporate communications.

### Course Outline:

- Up-to-date global statistics of oil & gas, reserves, production, consumption and exports
- Familiarization of the oil and gas supply chain: upstream, mid-stream and downstream operations and related facilities
- Technology and economics – Their inter-dependency and the impact of new technologies
- Market of each key chemical – Supply, demand, and trade
- Change – The industry's massive restructuring
- Main players – The petrochemical players and their history
- Major applications – Fertilizers, polymers (plastics, fibers, paints, rubbers, resins, etc.), consumer products, pharmaceuticals, etc.
- Update participants of the various methods and technologies used to explore, produce, treat and transport oil, gas and their products
- Essentials of international oil and gas supply, economics and transportation
- The key economic drivers of the international oil gas value chain.
- Primary logistics – tanker freight costs and chartering
- Supply logistics – major international pipelines, shipping routes, and choke points

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- The configuration and structure of different refineries from simple to complex.
- The value of crude oil based on product market prices retail and distribution

Course Duration	Date	Venue	Course Fee
5 Days			

**Time:** 08:00 AM -02:00 PM

**Numbers of hours:** 30 Hours

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