Hydrocarbon Production Operations

Introduction

This Hydrocarbon Production Operations training seminar 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 present 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 training seminar 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.

This training seminar will highlight:
- 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
- Update participants of the various methods and technologies used to explore, drill, 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
- The configuration and structure of different refineries from simple to complex
- The value of crude oil based on product market prices retail and distribution

Objectives

This training seminar 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 seminar will consider several complex operations, such as drilling, completion, refining, and transportation.

By the end of this training seminar, 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
- Recognize the cause and effect of unconventional oil and gas on the industry from a financial and environmental perspective

Training 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.

Organisational Impact

- Recognized and respected certification
- Assurance by a quality training organization with a very experienced instructor
- Informed decision-making, focused action, and a vastly improved understanding of the Hydrocarbon Production Operations and processes in your organisation
- Managers who have a broader overview and understanding of the structure and operations of Hydrocarbon Production Operations
- Enhanced sense of confidence by delegates that will lead to empowerment and a results' driven focus

Personal Impact

- Deeper understanding and a better capability to critically analyze the methodologies employed within this industry
- Enhance your understanding of netbacks and refinery margin calculations, vessel chartering, pipelines terminals and other related operations
- Advance your technical skills to comprehend oil and gas exploration and production
- Appreciate how each segment of the supply chain from oil discovery through to marketable products adds value
- Become familiar with new the technology and its impact on the market
- Appreciation of the technical, commercial and environmental aspects of the Hydrocarbon Production Operations business

Who Should Attend?

This training seminar is suitable to a wide range of professionals but will greatly benefit:
- Oil & gas field personnel
- Operations, maintenance and engineering trainees
- Other support staff who have an interest in increasing their understanding of the oil & gas production operations
- Business Development Managers, Corporate Planning Professionals and Business Analysts switching disciplines who are required to have a better understanding of this stimulating field
- Energy industry journalists and reporters
- Professional personnel such as legal, banking, insurance, finance dealing with oil supply, refining and transportation

This Hydrocarbon Production Operations training seminar will greatly benefit all participants who:光辉
Seminar Outline

DAY 1

Introduction to the Hydrocarbon Industry
- Overview of the Hydrocarbon Industry
- Global oil & gas statistics
  ◊ Reserves, production, consumption and exports
- Petroleum Economics and Risk Analysis
- Exploration for Oil & Gas
- Seismic Surveys
- Drilling, Testing & Completion
- Well Stimulation and Maintenance

DAY 2

Hydrocarbon Recovery Methods
- Chemical and physical Properties of oil & gas
- Rock porosity and permeability. Impact on oil & gas reserve estimation
- Reservoir stimulation
- Reservoir drive mechanisms & technologies for pressure maintenance
- Primary, Secondary Tertiary and quaternary recovery of oil & gas
- Oil & gas field surface facilities
- Case study: Drilling and production problems & challenges

DAY 3

Upstream Operations
- Well fluids and surface production operations
- Wellhead types
  ◊ Land
  ◊ Offshore Surface (Jack-up, platform etc.)
  ◊ Subsea
- Production and test manifolds
- Oil & gas separation
  ◊ COSPs, Slug catchers, Desalters
  ◊ Dehydrators & Emulsion treatment
- Separator operation and troubleshooting

DAY 4

Downstream Operations
- Gas treatment and processing
- Oil & gas measurement and control
- Oil treatment, storage and transportation
- Pipeline operation and pigging of Crude & Gas pipelines
- Pumps & compressor stations
- Crude oil Refinery operations
- Case study: Refinery Complexity and Netback calculations

DAY 5

The Role of Technology in Hydrocarbon Processing
- Recent advances in drilling Technology
- Extended Reach Drilling (ERD) Vs Complex Path Drilling
- LNG - new technologies for natural gas transportation & commoditization
- Corrosion & cathodic protection
- Environmental safety and accident prevention
- Seminar review and close

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<tr>
<th>Code</th>
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TERMS AND CONDITIONS

- Fees – Each fee is inclusive of Documentation, Lunch and refreshments served during the entire seminar.
- Mode of Payment – The delegate has the option to pay the course fee directly or request to send an invoice to his/her company/sponsor. Credit card and cheque payments are both acceptable.
- Cancellation / Substitution – Request for seminar cancellation must be made in writing & received three (3) weeks prior to the seminar date. A US$ 250.00 processing fee will be charged per delegate for each cancellation. Thereafter, we regret that we are unable to refund any fees due, although in such cases we would be happy to welcome a colleague who would substitute for you.
- Hotel Accommodation – is not included in the course fee. A reduced corporate rate and a limited number of rooms may be available for attendees wishing to stay at the hotel venue. Requests for hotel reservations should be made at least three (3) weeks prior to the commencement of the seminar. All hotel accommodation is strictly subject to availability and terms and conditions imposed by the hotel will apply.
- Attendance Certificate – a certificate of attendance will only be awarded to those delegates who successfully completed/attended the entire seminar including the awarding of applicable Continuing Professional Education Units/Hours.
- Force Majeure – any circumstances beyond the control of the Company may necessitate postponement, change of seminar venue or substitution of assigned Instructor. The Company reserves the right to exercise this clause and implement such amendments.
- Fair Access / Equal Opportunities – In the provision of its services as a world-class Training Provider, the Company is committed to provide fair access / equal opportunities throughout the delivery of its courses and assessment leading to the completion of training seminars, or 3rd party qualifications/certifications.

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CERTIFICATION

Successful participants will receive GLOMACS’ Certificate of Completion

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