

Oil and gas industry fundamentals

18-20 September 2012, London, UK
EI member £2,200.00 (£2,640.00 inc VAT) Non-member £2,400.00 (£2,880.00 inc VAT)*
*includes complimentary Affiliate membership to the Energy Institute

New Structure ** Updated Content ** More Interactive Delivery



This course comprehensively covers the oil and gas supply chains from exploration through to fuel retailing. Along the way it addresses conventional and unconventional reserves and resources, drilling and production processes and facilities, economic fiscal and risk issues, transportation, refining, gas to power, wholesale product markets, contracts, physical and paper trading, retailing, distribution logistics, emerging markets technologies, competition with alternative energies, environmental, safety and security issues. As such, it provides understanding and insight to the processes, drivers, threats and opportunities associated with the core industry activities. In doing so the course is interactive with a range of thought provoking exercises and various presentation media, including a number of short videos.

The course will benefit personnel from a range of technical, non-technical and commercial backgrounds with varying levels of experience. For example, new industry entrants and those with expertise in one area wishing to gain a broader perspective of all industry sectors will be provided with a concise knowledge base.

It also provides a valuable industry overview for those employed by financial, commercial, legal, insurance, governmental, service, supply and advisory organisations that require an informed introduction to the economic and commercial background and general trends within the oil and gas industry.

Participants will gain an appreciation of the principal activities in the international upstream, midstream and downstream petroleum industry and an understanding of how these interrelate, as well as an awareness of the impact of external influences and the ways in which the industry is adapting to increase its competitiveness and to meet new challenges.

Course notes are issued in digital format.

For more information please contact
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Topics covered include:

Day one: Supply Chains and Upstream Focus

- Structure of oil and gas supply chains and organisations
- Exercise: supply chain issues and choke points
- Petroleum system: oil and gas resource formation and location
- Crude oil, gas and natural gas liquid (NGL) properties and types
- Conventional versus non-conventional resources
- Petroleum exploration techniques: reconnaissance, seismic and drilling
- Video: deepwater drilling techniques and equipment
- Exercise: contingencies for extreme risks
- Production processes and equipment: onshore and offshore
- Project planning and managing field developments
- Video: offshore production platform
- Sub-surface and above-ground risks and opportunities
- Roles for OPEC (oil) and GECF (gas)
- Economic evaluation of field developments
- Video: deepwater FPSO offshore West Africa
- Enhanced oil recovery techniques
- Upstream fiscal terms, production sharing contracts and project finance
- Exercise: rationalise an upstream asset portfolio
- Costs and upstream performance benchmarks
- Safety, security, environmental and decommissioning issues

Day two: Natural Gas, Midstream and Refining Focus

- Natural gas: pipelines, storage, and specification
- Liquefied natural gas (LNG)
- Video: LNG properties and infrastructure
- Regional gas markets, hubs, NGLs and contracts
- Exercise: LNG netback prices
- Shale gas, coal bed methane and gas hydrate resources
- Gas-to-power and Gas-to-liquids (GTL)
- Video: GTL - Fischer - Tropsch technology
- Marine transportation of crude oil and products (worldscale)
- Oil and gas pipelines and storage terminals
- Video: construction of transcontinental pipeline in Caspian Region
- Exercise: pipeline risk profile
- Refinery separation, conversion and blending processes
- Video: Refinery conversion processes
- Refined products, trade movements and their demand trends
- Refinery economics, gross product worth, crack spreads and margins
- Refinery optimisation and safety
- Exercise: Selling a refinery
- Petrochemical feedstock, processes and products

Day three: Unconventional Oil, Downstream, Trading and Sustainability Focus

- Unconventional oil resources: Tar sands, bitumen and oil shales
- Heavy oil upgrading and syncrudes
- Video: Canadian tar sand operations
- Sustainability, public relations and community issues
- Exercise: addressing community issues
- Physical markets, pricing, price trends, FOB and CIF Sales
- Product marketing, supply and distribution logistics
- Wholesale petroleum product markets: aviation, marine, LPG, bitumen
- Forward price curve characteristics and influence on trading strategies
- Trading exchanges and over-the-counter (OTC) transactions
- Paper markets for trading and hedging
- Trading instruments: forwards, futures, swaps and options
- Exercise: hedging strategies
- Retailing road transport fuel
- Biofuels: ethanol and biodiesel renewable fuel obligations
- Roles for C-stores, non-fuel products and unmanned forecourts
- Competition from coal, renewables and alternative energies
- Challenges of greenhouse gas (GHG) emissions
- Carbon capture and sequestration (CCS)
- Video: CCS
- Future scenarios for the oil and gas sector
- Forecasts of global primary energy mix to 2050
- Exercise: SWOT analysis of industry

Who Should Attend this Course?

- Those seeking a broader knowledge of the oil, gas and energy industry and markets
- New recruits to oil, gas and energy companies
- Analysts, planners, traders, sales, marketing, engineering, refining, communications, public relations and commercial personnel
- Those requiring an understanding of the oil, gas and energy value chain

- Bankers, economists, financiers and lawyers supporting the industry, together with management consultants providing services to oil, gas and energy companies
- Ministerial, governmental, industry bodies and development agency staff

Delegates will:

- Identify where petroleum comes from and how and where it accumulates.
- Understand exploration and production techniques and their associated risks.

- Gain insight to petroleum economic, fiscal and project planning issues.
- Become aware of development, transport and market options for oil and gas.
- Recognise the ability of refining and petrochemical processes to balance product market demand.
- Perceive the importance of the trading, hedging and retailing functions to modern, integrated oil and gas companies.
- Be able to evaluate the threats and opportunities offered by non-conventional petroleum sources and alternative fuels in terms of a range of scenarios.

Registration form

To register, by post or fax, please complete this registration form in BLOCK CAPITALS and return it to the address below, together with payment of all fees. Nick Wilkinson, El Oil and Gas Training, Energy Institute, 61 New Cavendish Street, London W1G 7AR, UK f: +44 (0)20 7255 1472 To register by email, please provide the same contact details (shown below), together with the relevant course details and send to: nwilkinson@energyinst.org To book online, visit: www.energyinst.org

I am/my employer is a member of the EI and entitled to the EI member's rate. EI Membership Number:

Mr/Mrs/Miss/Ms/Dr/Other:..... Name:

Date of Birth if under 19 years of age: Job title: Organisation:

Name and address against which an invoice should be raised:

t:.....e:.....

Mailing address for joining instructions (if different to invoice address above):

Please indicate if you have any particular dietary requirements:

I confirm that I have read and agree to the conditions of registration as specified in the General Information section.

Signature:..... Date:

Under UK Excise Regulations, delegates from all countries are required to pay VAT on any course taking place in the UK.

Course Title:

Course date: Cost of course: £.....

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company attending the same course on the same date

I enclose my remittance, made payable to the Energy Institute, for: TOTAL PAYMENT £inc VAT

The total amount may be paid by Sterling Cheque or Draft drawn on a bank in the UK.

To pay by Credit or Charge Card, circle appropriate card name and give card details below:

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GENERAL INFORMATION

Entry Requirements

Whilst no formal qualifications are required in order to participate in our training courses, it is likely that applicants will have been educated to senior school level.

In addition, applicants should have a reasonable ability to understand spoken and written English. The ability to write in English would be useful but not essential.

Payment: Full payment must be received before a place can be guaranteed. Under UK Excise Regulations, delegates from all countries are required to pay VAT on any event taking place in the UK. Please note that VAT may be liable to amendment. All prices are correct at the time of going to press, but may be subject to change without prior notice.

Acknowledgement of registration: Confirmation of registration and a VAT receipt will be sent to all delegates. Joining instructions will be sent out prior to the start date of the course. If you have not received your acknowledgement seven days prior to the start date of the course, please contact El Oil and Gas Training to confirm your booking.

Language and course materials: All presentations, course materials and supporting documentation will be presented in English. **Audio-visual recording of presentations is strictly forbidden. Course materials cannot be purchased by non-attendees.**

Cancellation: In the event of a delegate cancelling, a refund of the registration fee less a 20% administration charge will be made provided that notice is received in writing at least 28 days before the date of the course. No refunds will be paid after that date. However, course papers, as supplied to attendees, will be provided after the event.

Substitution

If you are unable to attend, a substitute delegate may attend in your place, provided that El Oil and Gas Training is notified in advance.

Enquiries

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DATA PROTECTION ACT

The EI will hold your personal data on its computer database. This information may be accessed, retrieved and used by the EI and its associates for normal administrative purposes. If you are based outside the European Economic Area (the 'EEA'), information about you may be transferred outside the EEA. The EI may also periodically send you information on membership, training courses, events, conferences and publications in which you may be interested. If you do not wish to receive such information, please tick this box

The EI would also like to share your personal information with carefully selected third parties in order to provide you with information on other events and benefits that may be of interest to you. Your data may be managed by a third party in the capacity of a list processor only and the data owner will at all times be the EI. If you are happy for your details to be used in this way, please tick this box

UK Entry Visas – Please note that there have been recent changes to the UK Entry Visa application system. Given this, it now takes a minimum of 15 working days/3 weeks, to process any applications. If you wish to attend a course and need a visa, you are urged to apply at least 1 calendar month prior to the start date of the course.
Full information at: www.ukvisas.gov.uk/en/howtoapply/wheretosapply/

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