

Exploration and production for oil and gas: technical and commercial approaches

20–22 April 2010, London, UK



El member £1,880.00 inc VAT Non-member £2,115.00 inc VAT*

*includes complimentary Affiliate membership to the Energy Institute

The continued evolution of exploration and production technologies helps to decrease risk, reduce costs and enhance commerciality of operations in challenging environments. The E&P industry continues to confront the difficulties of the depletion of existing reserves and the finding and development of new, material volumes of commercial reserves that can satisfy rapidly growing global demands for oil, petroleum products and gas.

In high, but volatile oil and gas price environments, the new technologies play vital roles in constraining costs and enhancing recovery. They ensure the long-term viability of many projects. Knowledge of these technologies and their commercial implications is important not only for the technical teams but also for the managers, economists and decision-makers that are involved in deploying and investing in them.

This course familiarises delegates, avoiding jargon and corporate bias, with the evolution and recent developments in a wide range of upstream technologies. It also identifies from commercial and risk perspectives the respective strengths and weaknesses of the technologies currently in use.

Topics covered include:

Day one – Exploration prior to drilling

- Reserves depletion and the future of exploration and production
- Basin modelling to predict prospective areas
- Sub-surface characteristics of oil and gas fields
- Reconnaissance with magnetic and gravity surveys
- Remote sensing and geochemical surveys
- Seismic methods to define prospect location and geometry
- Advantages of 3D seismic technologies
- Direct hydrocarbon indications from seismic data
- 4C seismic exploits shear waves to extract detail
- Seismic visualisation and 3D immersive environments
- Petroleum reservoir characterisation
- Managing and integrating subsurface data sets
- Exploiting cost-effective technologies

Day two – Exploration and development drilling

- Drilling techniques, equipment and types of wells drilled
- Types of drilling rig and their uses
- Mud systems and drilling bits
- Downhole casing, tubing and expandable tubulars
- Deviated drilling: geo-steering and bio-steering
- Side-tracking wells and under-balanced drilling
- Coiled tubing and multi-lateral drilling

- Deep water drilling and sub-sea technologies
- Measurement while drilling (MWD)
- Seismic techniques to see ahead of the bit
- Wireline logging and formation testing
- Roles of contractors, suppliers and materials procurement
- Incentivised drilling contracts and alliances to share risk
- Indicative costs of drilling activities

Day three – Field development and production

- Development options for oil and gas discoveries
- Licensing, unitisation and fiscal constraints
- Production profiles and definitions of reserves
- Reservoir modelling and simulation
- Project managing field developments and costs
- Processing to deliver sales quality oil and gas
- Artificial lift, pumping options and well completions
- Optimising oil and gas production from field facilities
- Offshore and integrated sub-sea technologies
- Floating production systems
- Reservoir pressure maintenance and secondary recovery
- Reservoir stimulation and enhanced recovery techniques
- Pipeline design, construction and operation
- Safety and environmental issues
- Enhancing commerciality of marginal fields
- Decommissioning issues and technologies



Who should attend?

This course is designed for a multi-disciplined audience from technical, project, operations and commercial sectors of the oil and gas industry, including both professional and support staff. The skills and industry insight provided are also of value to corporate staff involved in exploration and production.

Attendees would include:

- Upstream professionals, including engineers, geoscientists and planners.
- Managers, supervisors and project team members involved in planning, implementing, supervising and directing E&P projects.
- Corporate and asset managers of E&P activities.

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, EI 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:

Family name: Mr/Mrs/Miss/Ms/Dr/Other:

Given name(s): Name to be used on badge:

Job title or present position:

Company/Organisation:

Name and address against which an invoice should be raised:

.....

.....

t: f:

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: £

Course Title:

Course date: Cost of course: £

Less 10% discount for each **subsequent** delegate from the **same** company attending the **same** course on the **same** date £

TOTAL PAYMENT £

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

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

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



Card No: _ _ _ _ / _ _ _ _ / _ _ _ _ / _ _ _ _ Start Date _ _ / _ _ Expiry Date _ _ / _ _

Please enter your 3-digit* security code above. This will be deleted upon authorisation. *4-digits for Amex users.

Credit/Charge card holder's name and address:

.....

.....

Signature: Date:

General information

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 EI Oil and Gas Training at the Energy Institute to confirm your booking.

Language and course materials

All presentations, course materials and supporting documentation will be presented in English.

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 EI Oil and Gas Training is notified in advance.

Enquiries

EI Oil and Gas Training,
Energy Institute, 61 New Cavendish Street,
London W1G 7AR, UK
t: +44 (0)20 7467 7100 f: +44 (0)20 7255 1472
e: nwilkinson@energyinst.org
www.energyinst.org

About the course provider

The Energy Institute (EI) is the leading professional body for the energy industries, representing almost 12,000 professionals both nationally and internationally.

A Royal Charter membership organisation, the Energy Institute serves society with independence, professionalism and a wealth of expertise in energy matters, creating a home for energy professionals and a scientific and technical reservoir for industry. It is licensed by the Engineering Council (UK) to offer Chartered, Incorporated and Engineering Technician status to engineers.

The Energy Institute (EI) cannot accept any liability for any loss, cost or expense suffered or incurred by

any person arising from reason of war, including threat of war, riots and civil strife, terrorism or threats thereof, natural disaster, weather, fire, flood, drought, technical, mechanical or electrical breakdown within any premises visited by delegates in connection with the course, non provision of services provided by hotel companies or transport operators, industrial disputes, governmental action, regulations, or technical problems which may affect the services provided in connection with the event. The right to exclude any delegate, guest or substitution and to reject any application for registration is reserved. The Institute reserves the right to make any changes to the courses as considered necessary.

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