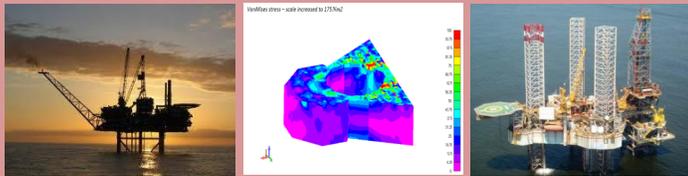


Stage 2: Basic Short Course — Drilling Operations Management (2Days)

About the course:

The course focuses on the concept of effective well construction, and aims to develop high levels of professional skill in the key areas of well design, drilling and operations management.



Who should attend?

Typical students include those working in oil and gas companies, energy companies, national oil companies, engineering firms and project service companies. Graduates of MSc Drilling and Well Engineering are now employed in every oil producing area of the world and work for many of the oil majors and drilling contractors.

Aims of module:

To introduce the principles and techniques involved in managing well engineering and construction operations. To provide an understanding of the theory and practice of drilling and well engineering.

Why attend?

On completion of this module, students are expected to be able to:

1. Apply the general principles of project management to drilling engineering, well construction and well intervention operations over the life cycle of a well.
2. Perform outline economic evaluation of projects and demonstrate an understanding of Cost Management.
3. Develop and implement Safety Management Systems, identify 'safety critical items' - ensure that equipment is 'Fit for purpose' and risks from well operations are properly identified, evaluated and controlled.
4. Apply modern management methods, such as partnering and alliances, network analysis and performance incentive schemes, to achieve improved drill planning and performance and reduce the incidence of non productive time.
5. Develop the report writing and presentation skills required to communicate effectively with management and peers, both within drilling and with other technical and non-technical disciplines.

Indicative Module Content:

Introduction to Drilling and Operations Management:

- Scale and Scope of Drilling Projects;
- Feasibility and Economics;
- Drilling Organization and People;
- Project Management Tools and Techniques;
- Risk Management and Analysis.

Well Planning, Design and Construction:

- The Well Planning Process;
- Preliminary and Detailed Well Design;
- Drilling Programmes;
- Pre-Spud Meetings;
- Operational Supervision and Control;
- Drilling Training;
- Avoidance/Control of Common Drilling Problems;
- HP/HT considerations.

Drilling and Petroleum Economics:

- Drilling Costs and Field Development Economics;
- Contracts for Rigs and Services;
- Procurement Procedures;
- Partnering and Alliances;
- Evaluating the Impact of New Technology;
- Cost Management, Estimating and Control;
- Performance Monitoring;
- Performance Improvement, Incentives, Benchmarking;
- Impact of Taxation.

Legislation/Regulation of Drilling Operations:

- U.K., European and International Perspectives;
- Consents to Drill;
- Planning Consents;
- Cullen Inquiry and Safety Case Regime;
- Well Examination Schemes;
- Drilling Policy Documents.

Health, Safety and Environmental Management:

- Health and Safety Legislation and Regulation;
- Safety Health and Environmental Management Systems;
- Compliance and Control;
- Emergency Response Plans;
- HSE Manuals;
- Incident Reporting and Analysis.