



London School
of Energy Studies

6. PETROCHEMICAL/PROCESS ENGINEERING

6A. Introduction to Process System Engineering

Course Description

On successful completion of this module the student will be able to demonstrate a systematic understanding of the concept of process systems engineering and apply competently the fundamental principles of fluid mechanics, heat and mass transfer and chemical engineering to analyze typical process systems.

6B. Petroleum Production Operations

Course Description

This course will help identify best practices in measurement system design and compare strengths and weaknesses of various primary devices.

6C. Process Measurement Systems

Course Description

The course will focus on Technologies, Operational Issues for Process Measurement, Methods for Transmission & Telemetry and Selection of Instrumentation Systems.

6D. Facilities Engineering

Course Description

This module sets out the requirements for process facilities for both onshore and offshore oil and gas production systems. It develops an understanding of current and projected process facilities concepts and the principles involved in their selection and design.



About Energy School Group

The Energy School Group was conceptualised and formed by oil and gas industry professionals based in London and the Middle East to drive Industry solutions and to bridge the large talent gap in the Industry. The business consists of two verticals; The Energy School Pvt Ltd (ES) and The London School of Energy Studies Pvt Ltd (LSES).

The Energy School runs the consulting business with emphasis on Competency Management and Drilling disciplines while The London School of Energy Studies is a unique finishing school with training programs for Oil & Gas Industry.

Our Offerings

LSES Consulting aims to be the preferred consulting service provider for drilling project management and to be a strategic partner to ambitious companies aspiring to harness the powers of globalization.

LSES Training delivers world-class training courses for professionals in Oil and Gas industry. The innovative instructional training programmes are tailored to address the needs of the industry.

LSES Post Graduate Programmes are designed specifically to mould young graduates and executives with varying levels of experience into domain specialists in Oil and Gas industry.

Oil and Gas Trainings

1. Post Graduate Diploma Oil & Gas Management

Course Description

The 6 month full time Post Graduate Diploma in Oil and Gas Management is designed to provide students with a sound knowledge of the oil and gas industry as well as the leadership skills required to function at a management level. This is a fast track program with training levels on par with the corporate world.

2. Post Graduate Programme (PGP) Drilling Engineering

Course Description

The 12 month full time programme has been specially designed to emphasize the concepts of drilling Engineering. Additionally the students are also given practical trainings, soft skill trainings, opportunities to attend seminars, and interact with industry veterans.

Partners & Clients



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London School
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3. PGP Petrochemical Engineering

Course Description

This course aims to make the student adept in all the verticals of petrochemicals to make them flexible and knowledgeable for a career in any department. It is offered through full time mode designed for completion over 12 months.

4. GENERAL AND COMMERCIAL

Short term Courses (5 days)

4A. Introduction to Oil and Gas Industry (LSES701)

Course Description

This course aims to provide a broad understanding to personnel from all sectors of the oil and gas industry, newcomers to the industry and non-technical personnel from other sectors with little or no knowledge of the industry.

4B. Petroleum Geoscience (LSES702)

Course Description

A good understanding of petroleum geoscience will help in developing a working knowledge of geophysical imaging and interpretation, geochemistry, petroleum economics and risk analysis.

4C. Health, Safety and Environment Management (LSES 703)

Course Description

This subject is designed to develop a general understanding of safety, health and environmental management systems (SHEMS), principles of risk assessment and risk management, human factors and an understanding of a safety culture and its measurement and development.

4D. Oil and Gas Project Management (LSES718)

Course Description

A good understanding of Oil and Gas Project Management will enable learners to practice and carry out Field essential project planning and execution. It aims to help understand how projects are managed in the oil and gas industry



4E. Petroleum Policy & Economics (LSES 713)

Course Description

The main aim is to equip the students with an understanding of relevant economic analysis and technical dimensions of the industry. In addition the course enables the student to become familiar with current policies and issues in the industry.

4F. Alternative Energy and Sustainability (LSES 804)

Course Description

The greatest challenge globally is getting access to safe and sustainable energy. This module covers topics on energy, sources and the provisions made to meet the demands of the ever increasing need for energy.

4G. Oil and Gas Trading and Marketing (LSES 803)

Course Description

The objective of this course is to help understand how trading activities work in every major oil market around the world. It will help students understand the issues and find probable solutions which play a critical role in the success in any organization.

4H. International Strategy in Oil and Gas (LSES 724)

Course Description

This course is designed to help understand and implement the strategies that will make a difference to the oil and gas industry. It prepares the students to take on management roles within their organizations.

5. Drilling AND Well Engineering

5A. Rotary Drilling Process, Rig Engineering and Operations (LSES704)

Course Description

This course offers a practical view that will enable the students to streamline and optimize rig operations and gain the technical skills required to provide cost-effective solutions to common rig problems associated with day-to-day operations

5B. Well Engineering Fundamentals (LSES 714)

Course Description

The objective of this course is to expose engineers to advanced well control concepts and apply those skills to individual projects. Right from well design processes and data gathering to the physics and mathematics involved in the functions, this course will cover every aspect of well engineering.

5C. Casing Design and Cementing (LSES 716)

Course Description

The aim of this course is to help engineers understand casing design and cementing techniques and apply those skills to individual projects. Students will learn the types and properties of casing and cementing which is an important part of all drilling projects.

5D. Well Control and Blowout Prevention (LSES715)

Course Description

This course will provide engineers with an understanding of advanced well control concepts which are important from the perspective of the safety and control of the well.

5E. Drilling Fluids Design

Course Description

Fluids play a big part in all the aspects of drilling. The focal point of this course is to understand each function and classify the drilling fluids accordingly.

5F. Drill Bits Design and Optimization

Course Description

Drill bits are the fundamental instrument required for drilling and the understanding of its engineering is necessary in order to use it efficiently. The designing and types and classifications of drill bits will be taught in the course.

5G. Directional Drilling

Course Description

Directional drilling is a recent technological advancement as opposed to the normal vertical drilling. Companies are increasingly moving towards the employment of this technology as the age of easy oil and gas is rapidly diminishing. It is important to understand the types of directional wells and angles and deviations which along with other important contents will be covered in the course.

5H. Drill String Stresses and Design

Course Description

The drill string is sensitive and under a lot of stress and strain. Its design is important to avoid any mishaps. Drill hole problems will be taken up during the course to help the student understand the practicality of drill strings.

