

Course Outline

PETROLEUM ENGINEERING FOR NON-PETROLEUM ENGINEERS

by
LDI Instructor

About the course

This introductory course provides the participants with a basic overview of the oil and gas industry. It presents the main aspects of the industry with focusing on the origin of fossil fuels, exploration, drilling, development, production and of oil and gas reserves. The course addresses some of the theoretical and practical issues of the oil & its origin & make-up. It addresses reservoir appraisal, field development options and optimization, supported by numerous examples.

What you will learn

- Types of reservoirs and their properties and characteristics
- How oil and gas flow from reservoirs to stock tanks
- The techniques and equipment used in drilling and completion
- Sand control, acidizing, and hydraulic fracturing
- Oil and gas flow behavior in tubing and pipes
- Oil and gas processing facilities
- Field development options and optimization
- Supported numerous examples

Course Content

1. Introduction to petroleum industry
2. Oil and gas industry
3. Origin & accumulation of oil & gas
4. Oil & gas reservoirs

5. Reservoir development
6. Exploration for hydrocarbons
7. Drilling & well construction
8. Production system
9. Field facilities
10. Oil & gas fields' development cycle
11. Development cost & management
12. Safety & the environment
13. The petroleum industry chain

This Course IS Designed For

Newcomers and juniors to the Oil & Gas Industry including junior engineers from within the industry and government organizations. Also can designed for Geologists, Geophysicists, Managers, Purchasing Agents, Oil field suppliers, Production and Drilling Supervisors, Bankers, Secretaries, Accountants, Lawyers, Businessman, Administration and Supportive Industry personnel, etc.