AN LDI TRAINING COURSE

Petroleum Engineering for Non-Petroleum Engineers

(Basic Petroleum Engineering Practices)

Prof.Dr.-Ing.Ir. Rudi Rubiandini R.S.

Course Description

This course is a basic introduction to most aspects of the Petroleum Engineering discipline which includes Reservoir, Production and Drilling Engineering as well as related topics. This course lays the groundwork for further specialized training in advanced courses for oil company and service company personnel. The course focuses on the field and application approach; and includes classroom exercises, fundamental engineering problems and basic field exercises. Basic Petroleum Engineering Practices will set the foundation for technical professionals with regards to technology and its engineering applications. The course starts out with a brief introduction of the history and current state of the oil and gas industry. Next, reservoir fluids, petroleum geology, and petroleum reservoirs are discussed. Then, various facets of exploration technology, drilling engineering and operations, well completion technology, and production technology are covered before finishing with surface processing of produced fluids.

Designed For

Engineers, engineering trainees, technical managers and assistants, technicians, geologists, geophysicists, chemists, physicists, service company personnel, sales representatives, and data processing personnel

You will learn

Participants will learn how to:

1. Basic petroleum geology
2. Reservoir fluid and rock properties

3. Fundamentals of reservoir fluid flow
4. Oil and gas reservoir classification, definition, delineation and development
5. Unconventional resources
6. Fundamentals of drilling, well completion, and production operations
7. Basics of casing design and primary cementing
8. Primary and enhanced recovery mechanisms
9. Surface operations

Course Content

1. Reservoir fluid properties
2. Petroleum geology
3. Reservoir properties and evaluation
4. Unconventional resources
5. Exploration technology
6. Drilling engineering
7. Well completion, stimulation and workover
8. Well testing and formation damage
9. Production operations
10. Recovery methods
11. Surface processing
12. Chemicals in upstream operations

Your Course Leader

The training will be led by Rudi Rubiandini, a distinguished industry professional and academic with more than 40 years of experience in the oil and gas industry. His expertise spans drilling operations, well planning, technology development, research, and upstream oil and gas management.

Throughout his career, he has delivered numerous technical training programs for leading oil and gas companies in Indonesia, managed drilling laboratories, and contributed to the development of research tools and technologies in petroleum engineering. He has also served as a Professor at Institut Teknologi Bandung (ITB), Head of BPMIGAS, Deputy Chairman of SKK Migas, and Vice Minister of Energy and Mineral Resources of the Republic of Indonesia. Currently, he is a professor at Universitas Pertamina in Jakarta

Combining extensive academic, operational, and regulatory experience, he brings valuable insights into industry best practices, operational challenges, and decision-making processes related to drilling operations, well control, and stuck pipe prevention.

Rudi Rubiandini is currently holding the position of a Senior Trainer of LDI Training and he certified to conduct its courses.