LDI TRAINING
"Leading Edge Courses for Professionals" ™

An LDI Training Course Outline

BASIC PETROLEUM ENGINEERING PRACTICES

by
Prof. Dr.-Ing.Ir. Bonar T.H. Barbun

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

About Instructor

Prof. Dr.Ing.- Ir. Bonar Tua Halomoan Marbun

Associate Professor
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Education:
Petroleum Engineering Bachelor Degree Bandung Institute of Technology, Institute of Petroleum Engineering, Bandung, Indonesia.

Petroleum Engineering Diplom Ingenieur Degree Clausthal University of Technology, Institute of Petroleum Engineering, Clausthal-Zellerfeld, Germany.

Dr.-Ingenieur in the field of Material Engineering and Science Clausthal University of Technology, Institute of Non-Metallic Materials, Clausthal-Zellerfeld, Germany.

Professional Experience
Member of Oil and Gas Independent Team Safety Control, General Directory of Oil and Gas, Ministry of Energy and Mineral Resources of Republic of Indonesia

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

For more information please contact to

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