LDI TRAINING
"Leading Edge Courses for Professionals" ™

An LDI Training Course

INTRODUCTION OF PETROLEUM GEOLOGY, GEOPHYSISCS and PETROLEUM ENGINEERING

by

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

Course Description

The course summarizes the different disciplines in geosciences in a systematic approach, starting from large scale earth systems and reaching into details of an oil and gas reservoir. Fundamentals of geology with a focus on sediments and reservoir rocks will be covered as well as tools and techniques for reservoir exploration and characterization. The course will demonstrate how to combine all relevant information to find a drilling location and how to answer one of the most important questions in the oil business - how much oil or gas can be produced from a reservoir. The various concepts will be illustrated by practical examples. Participants will gain a better understanding of the geosciences framework, the basic tools and the link between geosciences and engineering disciplines.

This course will provide an excellent overview of the limits and benefits of modern seismic techniques, including the relationship between well logs and seismic traces. The session will emphasize a number of examples. The definition and utilization of seismic resolution and its role in establishing estimates of reserves in thin pay zones will be discussed in detail.

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.

Designed For Non- Engineer

What you will learn

Participants will learn:

1. The earth as a dynamic system
2. Exploration methods and tools Geophysical methods
3. The principal of geophysics
4. The introduction of petroleum industry

Course content

1. Basic principles and processes rocks,
2. Hydrocarbon reservoirs petroleum geology:
3. Exploration methods and tools Geophysical methods:
4. Integration of results from seismic, logging, core analysis, geology and other.
5. Geophysics
6. Introduction to Petroleum Industry

About The Instructor

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

Associate Professor

Head of Petroleum Engineering Study Program Institut Teknologi Bandung

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

Head of Petroleum Engineering Study Program, Institut Teknologi Bandung

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

For course registration and more information please email to

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