

A Live Online Course

BASIC PETROLEUM ENGINEERING

INTRODUCTION

This course introduces to the participants the basic concepts and applications of petroleum engineering. Participants will learn how oil and gas are explored, drilled, and produced.

This course is useful to engineers and oilfield personnel who have no petroleum engineering background.

In this course, participants will learn:

- Petroleum geology and systems
- Exploration methods
- Rock properties
- Fluid properties
- Different types of petroleum reservoirs
- Reservoir drive mechanisms
- Reserve calculation
- Drilling rigs and equipment
- Drilling practices
- Well testing
- Well completion
- Artificial lifts
- Oil and gas processing and facilities

COURSE CONTENT

I. Petroleum Industry

- Petroleum Industry Overview
- Oil and Gas Business Characteristic
- Exploration activity
- Production activity

II. Basic Petroleum Geology and Exploration

- Geological Mapping
- Geophysics Exploration
- Structure and Stratigraphy Trap

III. Petroleum System

- Petroleum Geologists Activity
 - Exploration Geologist
 - Production Geologist

IV. Reservoir Engineering

- Physical Rock and Fluid Properties
- Physical Rock Properties
 - Porosity
 - Saturation
 - Permeability
 - Wettability
- Fluid Properties
 - Density and API Gravity
 - Viscosity
 - Pour Point, Dew Point, Flash Point
- Type of Reservoirs (Gas, Condensate, Oil)
- Drive Mechanism and Performance Reservoir
- Reservoir Reserve (Volumetric, Material Balance, Decline Curve)

V. Drilling Engineering

- Drilling Rigs
- Drilling equipment
- Drilling Operations
- Well construction

VI. Production Engineering

- Well Testing
- Flowing Well
- Artificial Lift (Gas Lift, Sucker Rod Pump, ESP)
- Surface Facility
 - Flowline,
 - Pump and Compressor,
 - Manifold,
 - Separator,
 - Gas Processing Plant,
 - Tank Storage
- Production Operation

TARGET AUDIENCE

This is a useful course for professionals working in the oil and gas industry such as:

- Engineers with no petroleum engineering background
- New engineers
- Drilling supervisors
- Geologists and geophysicists
- Production supervisors
- Production technicians
- Anyone who wants to understand how oil and gas are explored, drilled, and produced.

COURSE DELIVERY

- This live online course will be delivered via Zoom.
- Each participant needs to prepare a PC and a WIFI connection to join this program.
- Participants will receive course material in the form of a hard copy and a soft file which will be delivered to the participant's address via a courier.
- Participants will receive a certificate after the training.

ABOUT THE INSTRUCTOR

Dr.Ing. Bonar Tua Halomoan Marbun is an Associate Professor and Head of the Petroleum Engineering Study Program at Institut Teknologi Bandung.

He received Petroleum Engineering Bachelor's degree in 1999 from Bandung Institute of Technology, Dr. Ing. degree from the Clausthal University of Technology in Germany in 2006.

Dr. Bonar Marbun is a member of the Oil and Gas Independent Team Safety Control of the Ministry of Energy and Mineral Resources of Indonesia

DAILY HOURS

Training time is from 09:00 to 15:00 with breaks in between.

Session 1 → 09:00 – 10:30

Session 2 → 11:00 – 12:00

Session 3 → 13:30 – 15:00

REGISTRATION INFORMATION

Title : Basic Petroleum Engineering

Date : April 7 – 9, 2021

Tuition fee : IDR 8,500,000 per person

Two ways to enroll:

1. Enroll online at www.lditraining.com
2. Email your enrollment message to LDI Training at lditrain@indo.net.id

LDI Training will send the access code for this online training after we have received the participant's registration, email address, and WA number.

For more information please contact

PT. Loka Datamas Indah

Telephone: +62 21 6326911

E-mail : Lditrain@indo.net.id

Website : www.Lditraining.com