OVERVIEW:

This course is far more than an introduction to petroleum engineering and application in oil and gas technology of the industry. Its purpose is to develop an understanding of the technology and its applications at an petroleum engineer’s level, and the confidence and professional enthusiasm which comes with that understanding. The course has had a revolutionary effect on training programs for many major oil and gas company and service companies by making specialized training that follows far more effective. Participants enter those specialized programs with a depth of understanding of that particular technology and relation to other classic and new technologies of the oil and gas industry. The course focuses on basically the field and application approach, and fundamental petroleum engineering application operations and problems solving.

AUDIENCE:

Reservoir Engineers, Production Engineers, Drilling Engineers, engineering trainees, technical managers and assistants, technicians, geologists, geophysicists, chemists, physicists, service company personnel, sales representatives, and data processing personnel, and Supported personal in Oil and Gas Industry.

COURSE CONTENT:

I. Petroleum Industry
   ▪ Petroleum Industry Overview
   ▪ Oil and Gas Business Characteristic
   ▪ Exploration activity
   ▪ Production activity
II. Petroleum Engineering Overview
   - Petroleum Engineering Aspect

III. Basic Petroleum Geology and Exploration
   - Geological Mapping
   - Geophysics Exploration
   - Structure and Stratigraphy Trap
   - Petroleum System
   - Petroleum Geologists Activity
     - Exploration Geologist
     - Production Geologist

IV. Basic 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 Reservoir (Gas, Condensate, Oil)
   - Drive Mechanism and Performance Reservoir
   - Reservoir Reserve (Volumetric, Material Balance, Decline Curve)

V. Basic Drilling Engineering
   - Drilling Rig Component
   - Drilling Programs
   - Drilling Operations
   - Well Completion

VI. Basic Production Engineering
   - Well Testing
   - Flowing Well
   - Artificial Lift (Gas Lift, Sucker rood Pump, ESP)
   - Surface Facility
     - Flowline,
     - Pump and Compressor,
     - Manifold,
     - Separator,
     - Gas Processing Plant,
     - Tank Storage
   - Production Operation
ABOUT INSTRUCTOR:

Dr.-Ing. Bonar Tua Halomoan Marbun
Associate Professor
Head of Petroleum Engineering Study Program Institut Teknologi Bandung

Education:

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

NOTE: CONDUCTED IN BAHASA INDONESIA

To enroll or get more information, please contact

PT. Loka Datamas Indah

Phone : +62 21 6326911
Email : Lditrain@indo.net.id
Website : www.Lditraining.com