

Training Title:

INTRODUCTION TO PETROLEUM ENGINEERING

Training Duration

5 days

Training Date and Venue

Ref RT010	Introduction to Petroleum Engineering	5	16-20 September 2024	\$6,500	Amsterdam, Netherlands
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In any of the 4 or 5-star hotel. Exact venue will be informed later.

Training Fees

- \$6,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Lunch.

Training Certificate

Define Management Consultants Certificate of course completion will be issued to all attendees.

Language: English

TRAINING DESCRIPTION:

This course introduces the general activities of the upstream sector of the petroleum industry including origin of petroleum, petroleum traps, exploration for oil and gas, drilling and completion practices, and production operations, corrosion, pollution, oil storage, transportation, refining, and marketing.

TRAINING OBJECTIVES:

Upon completion of this course, participants will be able to:

- ❖ To learn about major issues in petroleum engineering
- ❖ To understand the various operations carried out during field development, from drilling to surface treatment.
- ❖ To learn the vocabulary needed to communicate with E&P professionals.

WHO SHOULD ATTEND?

Professionals in technical, commercial, legal, financial or human resources departments, within the petroleum industry or related sectors, who need a general knowledge in petroleum engineering

TRAINING METHODOLOGY

DMCT/OL/9/18(Rev3Dt:23/9/18)

A combination of class lectures, case studies or examples and group discussion. The course will be intensive but practical and highly interactive. Participants are encouraged to participate actively and to ask questions especially pertaining to specific problems. At the end of the session there will be a question-and-answer session to allow participants enough time to seek answers to grey areas and to seek clarifications to any misconceptions or problems they may have regarding the subject concerned to the course. There will also be some indoor experiential activities to enhance learning.

- ✿ 30% Lectures
- ✿ 30% Workshops and work presentation
- ✿ 20% Group Work & Practical Exercises
- ✿ 20% Videos & General Discussions

COURSE OUTLINES:

Pre-Course Test

Overview of Oil and Gas Resources and Industry (2 Hours)

Basic Review of Petroleum Geology

- The Geologic Column
- Petroleum Traps
- Origin of Petroleum, Migration and Accumulation

Oil Well Drilling Technology

- The Rig: Basic Functions and Components
- The Drilling Fluids: Functions, Types and Compositions
- Well Design: A Descriptive Review
- Fundamental Drilling Operations and Problems

Well Completion and Workover Operations

- Completion Types
- Completion Equipment
- Basics of Acidizing and Hydraulic Fracturing
- Sand Control

Production Engineering and Operations

- Surface Production Facilities
- Pipelines and Gathering Systems
- Separation and Treatment of Oil, Gas and Water
- Artificial Lift Systems
- Storage Systems and Tank Forms

Reservoir Engineering

- Definitions of Reserves
- Reservoir Drive Mechanisms
- Primary Recovery

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- Enhanced Recovery Methods
- Oilfield Safety and Environmental Aspects
Post-Course Test

NOTE:

Pre & Post Tests will be conducted.

Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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